Curriculum Vitae

CHEUNG, JASON PUI YIN

Department Chairperson ---since 1 Dec 2021 Clinical Professor, Honorary Consultant Division of Spine Surgery, Department of Orthopaedics and Traumatology, The University of Hong Kong

Office Address: 5/F, Professorial Block, Department of Orthopaedics and Traumatology, Queen Mary Hospital **Email Address:** <u>cheungjp@hku.hk</u> | <u>jcheung98@hotmail.com</u> **ORCID:** 000-0002-7052-0875

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A. Academic Qualification

| 2002-2007 | Bachelor of Medicine and Surgery (MBBS), The University of Hong Kong |
|-----------|---|
| 2010-2012 | Master of Medical Sciences (MMedSc), The University of Hong Kong |
| | Thesis: Biomechanical comparative study of the JuggerKnot TM soft anchor technique |
| | with other common mallet finger fracture fixation techniques |
| 2016-2017 | Master of Surgery (MS), The University of Hong Kong |
| | Thesis: Bridging the knowledge gaps in adolescent idiopathic scoliosis: an emphasis on |
| | growth, flexibility and outcome measures |
| 2016-2018 | Postgraduate Diploma in Molecular and Diagnostic Pathology (PDipMDPath), |
| | The University of Hong Kong |
| 2018-2019 | Doctor of Medicine (MD), The University of Hong Kong |
| | Thesis: Developmental spinal stenosis: from bedside to bench (Sir Patrick Manson Gold |
| | Medal 2019) |
| 2010 2021 | Master of Education (MEd) The University of Hang Kang |

2019-2021 Master of Education (MEd), The University of Hong Kong

B. Academic Appointments

| 2012-2018 | Clinical Assistant Professor, Department of Orthopaedics and Traumatology, The |
|-----------|--|
| | University of Hong Kong |
| 2018- | Clinical Associate Professor, Department of Orthopaedics and Traumatology, The |
| present | University of Hong Kong |
| 12/2021- | Chairperson, Department of Orthopaedics and Traumatology, The University of Hong |
| present | Kong |

C. Professional Qualification/Membership

International

| AOSpine | |
|-----------------|--|
| Apr 29-30, 2023 | AO Spine Advanced Level Anatomical Specimen Course - Minimally Invasive |
| | Lumbar Spine Surgery (Attended and Completed) |
| 2016-2019 | AOSpine East Asia Research Officer |
| 2016-2022 | AOSpine Asia Pacific Research Committee and Grant Reviewer |
| 2017-present | AOSpine Trained Faculty |
| 2017-2021 | AOSpine International Grant Reviewer |
| 2019-2021 | AOSpine Asia Pacific Regional Research Chairman |
| 2022-present | AOSpine Asia Pacific Board Officers Nomination Committee |
| 2022-present | AOSpine Asia Pacific Spine Center Director |
| 2023-present | AOSpine Faculty of Diploma Program |
| 2022-present | AO Spine Grant Monitor |
| 1/2023-present | Associate Member, AO Spine Knowledge Forum (KF) Degen Steering Committee |

BMC Musculoskeletal Disorders

2020-present Senior Board Member of BMC Musculoskeletal Disorders

Genetics of Osteoarthritis Consortium

2019-present Member of Genetics of Osteoarthritis Consortium (https://www.geneticsosteoarthritis.com/people/people/index.html)

International Consortium for Spinal Genetics Development & Disease (ICSGDD)

11/2022-present Treasurer of ICSGDD

KU Leuven

2022 Research Council of KU Leuven: C24M/22/060

Medical Research Council (UK) Research

2020 Medical Research Council (UK) Research Boards Jan 2020 Submissions: Population & Systems Medicine Board Musculoskeletal

Société Internationale de Chirurgie Orthopédique et de Traumatologie (SICOT)

May 2023- 2024 SICOT Chair of the Research Awards Committee

| 2014-present | SICOT Member |
|--------------|------------------------------------|
| 2021-2023 | SICOT Spine Subspecialty Committee |

Scoliosis Research Society (SRS)

| 2016-2017 | SRS Grants Committee and Grant Reviewer |
|---------------|--|
| 1/2017-2019 | Scientific Program Committee for SRS |
| 10-13/10/2018 | Program Committee of the 53rd Annual Meeting & Course of the Scoliosis |
| | Research Society. Bologna, Italy. |
| 2019-present | Non-Operative Committee of SRS |

Swiss National Science Foundation

2021-2022 Grant Reviewer, Swiss National Science Foundation: Project Funding in Biology and Medicine Division III

The China Consortium of Elite Teaching Hospitals for Residency Education

2017-present Fellow Representative and Committee Member of The China Consortium of Elite Teaching Hospitals for Residency Education

The International Society for the Study of the Lumbar Spine Member (ISSLS)

| 2015-present | ISSLS Member |
|---------------|--|
| 29/5-2/6/2017 | Program Committee of the ISSLS Annual Meeting 2017. Athens, Greece |
| 2018-2021 | ISSLS Asia-Pacific Representative |
| 14-18/5/2018 | Program Committee of the ISSLS Annual Meeting 2018. Banff, Canada. |
| 3-7/6/2019 | Program Committee of the ISSLS Annual Meeting 2019. Kyoto, Japan |
| 31/5-4/6 2021 | Program Committee of the ISSLS Virtual Annual Meeting 2021 |

<u>Regional</u>

Asia Pacific Spine Society (APSS)

| 2014-present | APSS Active Member |
|-----------------|---|
| 2016-present | Membership Committee for APSS |
| 12/2017-present | Basic Surgical Course Committee for APSS |
| 2017-2020 | Founder and Chairman of the Research Committee of the APSS |
| 2020-present | APSS Scoliosis Focus Group |
| 2021-6/2025 | APSS Anterior Column Reconstruction Focus Group Chairman |
| 2022-present | APSS Hong Kong Board Member |
| 7/2023-6/2025 | Scientific Programme Sub-Committee Chairman |
| 4-7/6/2015 | Organizing Committee for the 2015 Combined Meeting of Hong Kong International |
| | |

| | Orthopaedic Forum with The APSS and Asia Pacific Paediatric Orthopaedic Society in Hong Kong. |
|--------------|---|
| 7-10/6/2018 | Scientific Committee of the 2018 APSS Annual Meeting. Taipei, Taiwan. |
| 4-6/4/2019 | Scientific Committee of the 12th Combined Meeting of the APSS & Asia Pacific Paediatric orthopaedic Society. Incheon, Korea. |
| 5-7/6/2020 | Scientific Committee of the 2020 Asia Pacific Spine Society Annual Meeting. Shanghai, China. |
| 9-12/6/2021 | Scientific Committee of the 2021 APSS Annual Meeting. 13 th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Hybrid Meeting. Kobe, Japan. |
| 10-12/6/2022 | Scientific Committee of the 2022 APSS Annual Meeting with Live Operative Course. India. Hybrid Meeting. Ganga Hospital, Coimbatore, India. |

Asia Pacific Orthopaedic Association (APOA)

Asia Pacific Orthopaedic Association Life Member Present

Chinese Academy of Medical Sciences,

Laboratory for Big Data Research and Applications in Spinal Deformities 8/2023-7/2026

<u>Local</u>

Hong Kong College of Orthopaedic Surgeons Council (HKCOS)

| 2020-present | Member, Working Group for HKCOS Training Curriculum Review |
|--------------|--|
| 2018-present | Trainer Certified by the Hong Kong College of Orthopaedic Surgeons |
| 2022-2024 | Treasurer, Hong Kong College of Orthopaedic Surgeons Council |

Hong Kong International Orthopaedic Forum (HKIOF)

Organizing Committee for the Hong Kong International Orthopaedic Forum 2019-present

The Medical Council of Hong Kong (MCHK)

- 2021-2023 Internship Sub-Committee of MCHK
- Licentiate Committee of MCHK 2019-present

Health Bureau, The Government of the Hong Kong Special Administrative Region

Member of the Grant Review Board for Health and Medical Research Fund (HMRF) 1/10/2023-30/09/2025

D. Honorary Academic Appointments

| 2018-2020 | Honorary Associate Consultant, Department of Orthopaedics and Traumatology, The |
|--------------|---|
| | Hong Kong West Cluster of Hospitals, Hospital Authority |
| 2020-present | Honorary Consultant, Department of Orthopaedics and Traumatology, The Hong Kong |
| | West Cluster of Hospitals, Hospital Authority |
| 2022-2024 | Adjunct Professor of Biomedical Engineering, The Hong Kong Polytechnic University |
| 9/2022 | Visiting Professorship, Department of Orthopaedic Surgery, University of Malaya |
| 2023 | MBBS External Examiner for National University of Singapore |
| 2023-2024 | Hong Kong Convention Ambassador, Hong Kong Tourism Board |

E. Honours and Awards (n=55)

External (n=53)

- Bronze Medal Winner, Best Original Research by Young Fellows 2023. Hong Kong Academy of Medicine. The Utility of a Novel Proximal Femur Maturity Index for Staging Skeletal Growth in Patients with Idiopathic Scoliosis. ---Dec 2023
- 2. 2022 Hibbs Award for Best Basic Science/Translational Research Paper, 58th Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington: Variants in Collagen Homeostasis Genes are Associated with Adolescent Idiopathic Scoliosis. --- 6-9 Sep, 2023
- 3. **Best Basic Science Award**, APSS 6th Annual Scientific Meeting @Spineweek 2023: Core Planar Cell Polarity Genes VANGL1 and VANGL2 in Predisposition to Congenital Scoliosis. --- 1-5 May, 2023
- 4. **Best Basic Science Award**, APSS 6th Annual Scientific Meeting @Spineweek 2023: The Electromyographic Discrepancy of Paravertebral Muscles Predicts an Early Curve Progression of Untreated Adolescent Idiopathic Scoliosis. ---1-5 May, 2023
- English Presentation Award Gold Prize, The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research: Immediate Versus Gradual Brace Weaning in the Clinical Management of Adolescent Idiopathic Scoliosis—A Randomised Controlled Trial. --- 13-15 Apr, 2023.
- Best Paper Award for Associate Member (Supervised Dr. Prudence Wing Hang Cheung), Hong Kong Orthopaedic Association 42nd Annual Congress: Immediate Versus Gradual Brace Weaning in the Clinical Management of Adolescent Idiopathic Scoliosis—a Randomised Controlled Trial. ---5-6 Nov 2022
- 7. **Russell A. Hibbs Best Basic Research Paper Award**, SRS 57th Annual Meeting. Variants in Collagen Homeostasis Genes Are Associated with Adolescent Idiopathic Scoliosis. ---17 Sep 2022
- Best Clinical Paper Award (1st Prize), AO Spine Asia Pacific East Asia Conference 2022. Supine Correction Index as a Predictor for Brace Outcome in Adolescent Idiopathic Scoliosis. ---Aug 2022
- 9. AHFE 2022 Best Paper Award, AHFE 2022 International Conference. Human Factors and Ergonomics in Healthcare and Medical Devices. Immediate Effects of Posture Correction Girdle on Adolescents with Early Scoliosis. ---Jul 2022
- APSS-ASJ Best Clinical Research Award, APSS Annual Meeting 2022 with Live Operation Course The Role of The Proximal Humerus Ossification System (PHOS) in Guiding Brace Weaning in Adolescent Idiopathic Scoliosis. ---10-12 Jun, 2022
- Gold Medal, Special Edition 2022, Inventions Geneva Evaluation Days, International Exhibition of Inventions of Geneva (IEIG). An intelligent Orthopaedics Platform: AlignPro[™] System and Device for Radiation-Free Spine Alignments. ---Mar 2022
- 12. Silver Medal, Special Edition 2022, Inventions Geneva Evaluation Days, International Exhibition of Inventions of Geneva (IEIG). Non-contact, Non-radiation Device that Accurately Locates Multiples Implants in a Patient's Body. ---Mar 2022
- 13. **Best Poster Award**, 41st Annual Congress of the Hong Kong Orthopaedic Association. The Novel Proximal Femur Maturity Index for Patients with Idiopathic Scoliosis --- Nov 2021
- 14. **Best Spine Paper Award**, 41st Annual Congress of the Hong Kong Orthopaedic Association Local Experience with Anterior Vertebral Body Tethering for Scoliosis in Hong Kong --- Nov 2021

- 15. Global Spine Journal Best Paper 2020, The Impact of COVID-19 Pandemic on Spine Surgeons Worldwide ---6 Nov 2021
- 16. John H. Moe Best Basic Research Poster, SRS Annual Meeting 2021. Screw Malalignment May Explain Cord Rupture in Vertebral Body Tethering: A Finite Element Analysis. ---Sep 2021
- 17. **The Best Paper in Orthopaedic Rehabilitation Award**, 15th Rehabilitation Symposium cum 7th Sir Harry Fang Oration: Multidisciplinary Management of Musculoskeletal Pain. Factors Affecting Pain and Disability in People with Chronic Low Back Pain. ---2021
- APOA Spine Section Award Winner, 21st Congress of the Asia Pacific Orthopaedic Association. Population-Based Analysis of The Clinical Implications of Lumbar Developmental Spinal Stenosis. ---July 2021
- 19. **Best Poster Award**, 40th Annual Congress of the Hong Kong Orthopaedic Association. Using the Ulna Physis in Improving Decision-making for Brace Weaning in Adolescent Idiopathic Scoliosis ---Nov 2020
- 20. Prize for Best Original Research by Young Fellows, Hong Kong Academy of Medicine. Curve Progression in Adolescent Idiopathic Scoliosis Does Not Match Skeletal Growth ---2019
- 21. **Best Spine Paper Award**, 39th Hong Kong Orthopaedic Association (HKOA) Annual Congress. Predictors of Flatback Deformity During Brace Treatment for Adolescent Idiopathic Scoliosis: Influence of Spinopelvic Parameters ---Nov 2019
- 22. **SOSORT Best Paper Award**, 14th International SOSORT Meeting 2019. Are Lung Functions Related to Spinal Deformities in Patients with Adolescent Idiopathic Scoliosis? A Systematic Review and Meta-Analysis --- Apr 2019
- 23. **Outstanding English Paper Award**, 52nd Annual Meeting of the Japanese Scoliosis Society. EN-2-C-4 Anterior Correction of the Thoracolumbar or Lumbar Adolescent Idiopathic Scoliosis (AIS): Report on Short Fusion ---Nov 2018
- 24. **Trainee Prize (Supervised Dr. Thomas Ka Chun Leung)**, 38th Hong Kong Orthopaedic Association (HKOA) Annual Congress. Is Cervical Collar Useful After Laminoplasty? A Randomized Controlled Trial ---Nov 2018
- 25. Ambassador, 91st Annual Meeting of the Japanese Orthopaedic Association --- May 2018
- 26. **Best Paper**, 45th ISSLS Annual Meeting. Does Lumbar Disc Degeneration Predict Facet Joint Changes or Vice Versa? A 5 Year Prospective MRI Study ---May 2018
- 27. Young Investigator Award, SICOT Research Awards 2017. Predicting Curve Progression at Skeletal Maturity in Adolescent Idiopathic Scoliosis Using the Distal Radius and Ulna Classification ---2017
- 28. APSS-ASJ Best Clinical Research Award, Predictability of Curve Progression in Adolescent Idiopathic Scoliosis Using the Distal Radius and Ulna Classification ---2017
- 29. **AR Hodgson Award**, 37th Hong Kong Orthopaedic Association (HKOA) Annual Congress. Matching Curve Progression with Skeletal Growth in Adolescent Idiopathic Scoliosis: Insight into the Best Period for Brace Treatment ---Nov 2017
- 30. Paediatric Orthopaedics Award (1st Prize), 37th Hong Kong Orthopaedic Association (HKOA) Annual Congress. Matching Curve Progression with Skeletal Growth in Adolescent Idiopathic Scoliosis: Insight into the Best Period for Brace Treatment ---Nov 2017

- 31. Ambassador, Singapore Orthopaedic Association Annual Congress --- 2017
- 32. Paediatric Orthopaedics Award 2nd Prize, 36th Annual Congress of the Hong Kong Orthopaedic Association (HKOA) Annual Congress. Characterisation and Predictive Value of Segmental Curve Flexibility in Adolescent Idiopathic Scoliosis Patients ---Nov 2016
- 33. Young Ambassador Award, Asia Pacific Orthopaedic Association ---2016
- 34. **ISSLS Clinical Prize**, 43rd ISSLS Annual Meeting. Clinical Consensus on the Clinical Diagnosis of Lumbar Spinal Stenosis: Results of an International Delphi Study ---May 2016
- 35. APSS Best Paper Award (1st Prize, Oral Presentation), Predictability of Peak Growth Spurt and Growth Cessation Using the Distal Radius and Ulna Classification ---2016
- 36. APSS Best Spine Paper Award, Five Year Longitudinal MRI Follow-up of a Population Based Cohort of Subjects with Ossified Yellow Ligament: A Natural History Study ---2016
- 37. Trainee Prize (Supervised Dr. Chris Tang), 35th Hong Kong Orthopaedic Association (HKOA) Annual Congress. 5-Year Longitudinal Magnetic Resonance Imaging Follow-Up of a Population-Based Cohort of Subjects with Ossified Yellow Ligament: A Natural History Study ---2015
- 38. Gold Medal (Prize for Best Original Research by Trainees), Hong Kong Academy of Medicine. Genetic Predisposition of Lumbar Spinal Stenosis in Chinese: A Genome-Wide Association Study ---2014
- 39. Ambassador, British Orthopaedic Association Annual Congress ---2014
- 40. **AR Hodgson Award**, 33rd Hong Kong Orthopaedic Association (HKOA) Annual Congress. Prediction of Lumbar Spinal Stenosis in Chinese: Findings from a Genome-wide Association Study ---Nov 2013
- 41. **Research Output Prize**, The University of Hong Kong. Magnetically Controlled Growing Rods for Severe Spinal Curvature in Young Children: A Prospective Case Series ---2013
- 42. Ambassador, New Zealand Orthopaedic Association Annual Congress ---2013
- 43. Gold Medal (Prize for Best Original Research by Trainees), Hong Kong Academy of Medicine. Verifying and Defining Developmental Spinal Stenosis: An MRI-based Study ---2013
- 44. **English Poster Award Finalist**, 42nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. Developmental Spinal Stenosis in The Chinese Population: Presence in Patients and Redefining Critical Values on MRI --- Apr 2013
- 45. Gold Medal (Prize for Best Original Research by Trainees), Hong Kong Academy of Medicine. Biomechanical Comparative Study of The Juggerknot[™] Soft Anchor Technique with Other Common Mallet Finger Fracture Fixation Techniques ---2012
- 46. Arthur Yau Award, 32nd Hong Kong Orthopaedic Association (HKOA) Annual Congress. Developmental Spinal Stenosis in The Chinese Population: Presence in Patients and Redefining Critical Values on MRI ---Nov 2012
- 47. **Prof. SP Chow Orthopaedic Contest (Project Presentation Winner)**, Department of Orthopaedics and Traumatology, The University of Hong Kong. Developmental Spinal Stenosis in The Chinese Population: Presence in Patients and Redefining Critical Values on MRI ---Nov 2012
- 48. Arthur Yau Award, 31st Hong Kong Orthopaedic Association (HKOA) Annual Congress. Use of a Remotely Distractible, Magnetic Controlled Growing Rod for The Treatment of Scoliosis in Young

Children --- Nov 2011

- 49. **2010 APOA-Pfizer Best Scientific Paper Award for Orthopaedic Infection (Finalist)**. 166 Cases of Mycobacterium Marinum Tenosynovitis of The Hand and Wrist: Clinical Features, Management and Result ---2011
- 50. **Best Paper Award**, 23rd Annual Congress of The Hong Kong Society for Surgery of The Hand Prognostic Factors of Mycobacterium Marinum Infection of the Hand and Wrist ---2010
- 51. Young Scientist Award, 13th Biennial Winter Workshop on Schizophrenia Research ---2006
- 52. **Medical Student Essay Award (Champion)**, Hong Kong College of Physicians Stroke: The Incessant Pursuit of Optimal Therapeutic Strategies ---2006
- 53. **Medical Student Essay Award (Runner-up)**, Hong Kong College of Physicians Depressive Disorder: Under-Recognized and Under-Appreciated ---2005

Internal (n=2)

- 1. Sir Patrick Manson Gold Medal, Li Ka Shing Faculty of Medicine, The University of Hong Kong. Doctor of Medicine (MD) Thesis: Developmental Spinal Stenosis: From Bedside to Bench ---2019
- 2. **Woo Kai Fun Prize in Clinical Neurology**, Li Ka Shing Faculty of Medicine, The University of Hong Kong. Avoiding Hemorrhagic Transformation in Stroke Management ---2007

F. Research and Scholarship

H-Index: 31 (SCI); Total Citations: 3,940 By 2,768Articles (Scopus) H-Index: 36; Total Citations: 4,843; I10-Index: 119 (Google Scholar) ORCID: 000-0002-7052-0875

Publications

Top 20 Representative Publications

1. Cheung PWH, Canavese F, Chan CYW, Wong JSH, Shigematsu H, Luk KDK, Cheung JPY. The Utility of a Novel Proximal Femur Maturity Index for Staging Skeletal Growth in Patients with Idiopathic Scoliosis. J Bone Joint Surg Am. 2022. 104(7) P630-640. Doi : 10.2106/JBJS.21.00747. [Impact Factor (InCites): 6.558, Ranking: 2 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 2]

(Authorship: Senior and Corresponding Author; Percentage of contribution: 40%)

2. Meng N, Cheung JPY, Wong KK, Dokos S, Li S, Choy RW, To S, Li RJ, Zhang T. An Artificial Intelligence Powered Platform for Auto-Analyses of Spine Alignment Irrespective of Image Quality with Prospective Validation. eClinicalMedicine. 2022;43:101252. Doi: 10.1016/j.eclinm.2021.101.252. eCollection 2022 Jan.

[Impact Factor (InCites): 17.033, Ranking: 13 out of 329 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 3] (Authorship: Corresponding Author; Percentage of contribution: 30%)

3. Boer CG, Hatzikotoulas K, Southam L, Stefánsdóttir L, Zhang YF, Coutinho de Almeida R, Wu TT, Zheng J, Hartley A, Teder-Laving M, Skogholt AH, Terao C, Zengini E, Alexiadis G, Barysenka A, Bjornsdottir G, Gabrielsen ME, Gilly A, Ingvarsson T, Johnsen MB, Jonsson H, Kloppenburg M, Luetge A, Mägi R, Mangino M, Nelissen RRGHH, Shivakumar M, Steinberg J, Takuwa H, Thomas L, Tuerlings M, [arcOGEN Consortium], [HUNT All-In Pain], [ARGO Consortium], Babis G, Cheung JPY, Lietma SA, Slagboom PE, Stefansson K, Tobias JH, Uitterlinden AG, Winsvold B, Zwart JA, Smith GD, Sham PC, Thorleifsson G, Gaunt TR, Morris AP, Valdes AM, Tsezou A, Cheah KSE, Ikegawa S, Hveem K, Esko T, Wilkinson JM, Meulenbelt I, Lee MTM, van Meurs JBJ, Styrkársdóttir U, Zeggini E. Deciphering Osteoarthritis Genetics Across 826,690 Individuals From 9 Populations. Cell. 2021; 184(18) :4784-4818.e17. Doi : 10.1016/j.cell.2021.07.038 [Impact Factor (InCites): 66.85, Ranking: 2 out of 322 in the field (Biochemistry & Molecular Biology);

No. of citations (Google Scholar): 110] (Authorship: Co-author; Percentage of contribution: 5%; supported this multicenter collaboration with data from the Hong Kong cohort)

- 4. Lai MKL, Cheung PWH, Samartzis D, Karppinen J, Cheung KMC, Cheung JPY. Clinical Implications of Lumbar Developmental Spinal Stenosis on Back Pain, Radicular Leg Pain, and Disability. Bone Joint J. 2021;103-B(1):131-140. Doi: 10.1302/0301-620X.103B1.BJJ-2020-1186.R2. [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 13] (Authorship: Corresponding Author; Percentage of contribution: 40%)
- 5. Cheung PWH, Cheung JPY. Sanders stage 7b : Using The Appearance of The Ulnar Physis Improves Decision-Making for Brace Weaning in Patients with Adolescent Idiopathic Scoliosis. Bone Joint J. 2021;103-B(1):141-147. Doi:10.1302/0301-620X.103B1.BJJ-2020-1240.R1. [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 5] (Authorship: Corresponding Author; Percentage of contribution: 50%)
- 6. Zhang T, Sze KY, Peng ZW, Cheung KMC, Lui YF, Wong YW, Kwan KYH, Cheung JPY. Systematic

Investigation of Metallosis Associated With Magnetically Controlled Growing Rod Implantation for Early-Onset Scoliosis. **Bone Joint J**. 2020;102-B(10):1375-1383. Doi: 10.1302/0301-620X.102B10.BJJ-2020-0842.R1.

[Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 12]

(Authorship: Corresponding Author; Percentage of contribution: 40%)

 <u>Cheung JPY</u>, Fong HK, Cheung PWH. Predicting Spondylolisthesis Correction with Prone Traction Radiographs. Bone Joint J. 2020;102-B(8):1062-1071. Doi: 10.1302/0301-620X.102B8.BJJ-2020-0528.R1.

[Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 11]

(Authorship: First and Corresponding Author; Percentage of contribution: 60%)

<u>Cheung JPY</u>, Cheung PWH. Supine Flexibility Predicts Curve Progression for Patients with Adolescent Idiopathic Scoliosis Undergoing Underarm Bracing. Bone Joint J. 2020;102-B(2):254-260. Doi: 10.1302/0301-620X.102B2.BJJ-2019-0916.R1.
 [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 14]

(Authorship: First and Corresponding Author; Percentage of contribution: 70%)

- <u>Cheung JPY</u>, Cheung PWH, Yeng WC, Chan LCK. Does Curve Regression Occur During Underarm Bracing in Patients with Adolescent Idiopathic Scoliosis ? Clin Orthop Relat Res. 2020 ;478(2) :334-345. Doi : 10.1097/CORR.00000000000989. [Impact Factor (InCites): 4.837, Ranking: 9 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 21] (Authorship: First and Corresponding Author; Percentage of contribution:70%)
- <u>Cheung JPY</u>, Cheung PWH, Luk KD. When Should We Wean Bracing for Adolescent Idiopathic Scoliosis? Clin Orthop Relat Res. 2019;477(9):2145-2157. Doi: 10.1097/CORR.0000000000000781. [Impact Factor (InCites): 4.837, Ranking: 9 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 25] (Authorship: First and Corresponding Author; Percentage of contribution: 70%)
- Wong AYL, Samartzis D, Cheung PWH, <u>Cheung JPY</u>. How Common is Back Pain and What Biopsychosocial Factors are Associated with Back Pain in Patients with Adolescent Idiopathic Scoliosis ? Clin Orthop Relat Res. 2019 ; 477(4) : 676-686. Doi : 10.1097/CORR.000000000000569. [Impact Factor (InCites): 4.837, Ranking: 9 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 31] (Authorship: Senior and Corresponding Author; Percentage of contribution: 50%)
- <u>Cheung JPY</u>, Cheung PWH, Law K, Borse V, Lau YM, Mak LF, Cheng A, Samartzis D, Cheung KMC. Postoperative Rigid Cervical Collar Leads To Less Axial Neck Pain in The Early Stage After Open-Door Laminoplasty – A Single-Blinded Randomized Controlled Trial. **Neurosurgery**. 2019 ;85(3) : 325-334. Doi : 10.1093/neuros/nyy359. [Impact Factor (InCites): 5.315, Ranking: 24 out of 282 in the field (Surgery); No. of citations (Google Scholar): 18] (*Authorship: First and Corresponding Author; Percentage of contribution: 70%*)
- <u>Cheung JPY</u>, Yiu K, Kwan K, Cheung KMC. Mean 6-Year Follow-Up of Magnetically Controlled Growing Rod Patients with Early Onset Scoliosis : A Glimpse of What Happens to Graduates. Neurosurgery. 2019 ;84(5) : 1112-1123. Doi : 10.1093/neuros/nyy270. [Impact Factor (InCites): 5.315, Ranking: 24 out of 282 in the field (Surgery); No. of citations (Google Scholar): 55] (Authorship: First and Corresponding Author; Percentage of contribution:80%

- 14. <u>Cheung JPY</u>, Cheung PW, Samartzis D, Luk KD. Curve Progression in Adolescent Idiopathic Scoliosis Does Not Match Skeletal Growth. Clin Orthop Relat Res. 2018;476(2): 429-436. Doi: 10.1007/s11999.00000000000027.
 [Impact Factor (InCites): 4.837, Ranking: 9 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 44]
 (Authorship: First and Corresponding Author ; Percentage of contribution:80%)
- <u>Cheung JPY</u>, Yiu KKL, Vidyadhara S, Chan PPY, Cheung PWH, Mak KC. Predictability of Supine Radiographs for Determining In-Brace Correction for Adolescent Idiopathic Scoliosis. **Spine**. 2018 ;43(14) :971-976. Doi : 10.1097/BRS.00000000002503. [Impact Factor (InCites): 3.269, Ranking: 27 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 33] (*Authorship: First and Corresponding Author; Percentage of contribution:75%*)
- 16. <u>Cheung JPY</u>, Samartzis D, Yeung K, To M, Luk KD, Cheung KM. A Randomized Double-Blinded Clinical Trial to Evaluate The Safety and Efficacy of A Novel Super-Elastic Nickel-Titanium Spinal Rod in Adolescent Idiopathic Scoliosis 5 Year Follow-Up. Eur Spine J. 2018;27(2): 327-339. Doi:10.1007/s00586-017-5245-x.
 [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 12]
 (Authorship: First Author ; Percentage of contribution: 50%)
- 17. <u>Cheung JPY</u>, Yiu KKL, Samartzis D, Kwan K, Tan BB, Cheung KM. Rod Lengthening with The Magnetically Controlled Growing Rod : Factors Influencing Rod Slippage and Reduced Gains During Distractions. **Spine.** 2018 ;43(7) :E399-E405. Doi :10.1097/BRS.000000000002358. [Impact Factor (InCites): 3.269, Ranking: 27 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 48] (*Authorship: First and Corresponding Author; Percentage of contribution:60%*)
- <u>Cheung JPY</u>, Cheung PW, Samartzis D, Cheung KM, Luk KD. The Use of The Distal Radius and Ulna Classification for The Prediction of Growth : Peak Growth Spurt and Growth Cessation. Bone Joint J. 2016 ;98-B(12) :1689-1696. Doi : 10.1302/0301-620X.98B12.BJJ-2016-0158.R1. [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 32] (*Authorship: First Author; Percentage of contribution:60%*)
- Cheung PWH, Wong CKH, Samartzis D, Luk KD, Lam CLK, Cheung KMC, <u>Cheung JPY</u>. Psychometric Validation of the EuroQoL 5-Dimension 5-Level (EQ-5D-5L) in Chinese Patients with Adolescent Idiopathic Scoliosis. Scoliosis and Spinal Disorders. 2016 ;11 :19. Doi : 10.1186/s13013-016-0083-x. [Impact Factor (InCites): 1.667, Ranking: 67 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 70] (Authorship: Co-first, Senior and Corresponding Author; Percentage of contribution: 70%)
- 20. Cheung KMC, <u>Cheung JPY</u>, Samartzis D, Mak KC, Wong YW, Cheung WY, Akbarnia BA, Luk KDK. Magnetically Controlled Growing Rods for Severe Spinal Curvature in Young Children : A Prospective Case Series. Lancet. 2012 May 26 ;379(9830) :1967-74. Doi: 10.1016/S0140-6736(12)60112-3. Epub 2012 Apr 19.
 [Impact Factor (InCites): 202.731, Ranking: 2 out of 329 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 320] (Authorship: Co-author; Percentage of contribution: 50%)

<u>4 Most Significant Publications in Past 6 Years</u>

1. Cheung PWH, Canavese F, Chan CYW, Wong JSH, Shigematsu H, Luk KDK, Cheung JPY.

The Utility of a Novel Proximal Femur Maturity Index for Staging Skeletal Growth in Patients with Idiopathic Scoliosis. **J Bone Joint Surg Am**. 2022. 104(7) P630-640. Doi : 10.2106/JBJS.21.00747. [Impact Factor (InCites): 6.558, Ranking: 2 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 2]

(Authorship: Senior and Corresponding Author; Percentage of contribution: 40%)

This is a development or a novel skeletal maturity parameter published in one of the top journals in Orthopaedics. It highlights the international collaborative nature of Dr. Cheung's work and this article showcases a novel maturity parameter for scoliosis management that is found on the same radiograph as the spine. It has received recognition within the field and evidence to Dr. Cheung's research theme in spinal deformities.

 Meng N, <u>Cheung JPY</u>, Wong KK, Dokos S, Li S, Choy RW, To S, Li RJ, Zhang T. An Artificial Intelligence Powered Platform For Auto-Analyses of Spine Alignment Irrespective of Image Quality with Prospective Validation. eClinicalMedicine. 2022;43:101252. Doi: 10.1016/j.eclinm.2021.101.252. eCollection 2022 Jan.

[Impact Factor (InCites): 17.033, Ranking: 13 out of 329 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 3]

(Authorship: Corresponding Author; Percentage of contribution: 30%)

This important article published in Lancet eClinicalMedicine showcased the utility of the AlignPro product to perform auto-analysis of spinal alignments and also provide severity assessment. This is one of the major underpinning research pieces for his clinical translation. This device has been launched and undergoing multicenter clinical validation with multiple mainland and overseas units. It is another impactul article in his research theme on spinal deformities.

 <u>Cheung JPY</u>, Cheung PWH, Yeng WC, Chan LCK. Does Curve Regression Occur During Underarm Bracing in Patients with Adolescent Idiopathic Scoliosis ? Clin Orthop Relat Res. 2020 ;478(2) :334-345. Doi : 10.1097/CORR.00000000000989. [Impact Factor (InCites): 4.837, Ranking: 9 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 21] (Authorship: First and Corresponding Author; Percentage of contribution: 70%)

This is one of the largest bracing studies published in a top Orthopaedics journal. It provides predictors for correction of scoliosis deformities based on curve flexibility and brace fitting/correction, and shows the ability of the brace to remodel the spine. It sets the standard for underarm brace treatment for scoliosis. Another impactful article in one of the most reputable journals in Orthopaedics. Falls in his research theme of spinal deformities.

 <u>Cheung JPY</u>, Yiu K, Kwan K, Cheung KMC. Mean 6-Year Follow-Up of Magnetically Controlled Growing Rod Patients with Early Onset Scoliosis : A Glimpse of What Happens to Graduates. Neurosurgery. 2019 ;84(5) : 1112-1123. Doi : 10.1093/neuros/nyy270. [Impact Factor (InCites): 5.315, Ranking: 24 out of 282 in the field (Surgery); No. of citations (Google Scholar): 55] (Authorship: First and Corresponding Author; Percentage of contribution:80%)

This is the first long-term study on the Magnetically Controlled Growing Rods in Early Onset Scoliosis. It is published in a top surgical journal and is well-recognized seen by its citation count. It is one of the major underpinning research for his RAE impact case submission in 2020. Same research theme on spinal deformities.

Books and Book Chapters (n=25)

1. **Cheung JPY,** Luk KDK. Insights and Innovations from AO Spine Asia Pacific.Tuberculosis of Spine. AO-TB eBook. Chapter 3: Impact of The Medical Research Council Trials on The Management of Spinal Tuberculosis. AO Foundation.

- 2. To MKT, Fan YL, Cheung JPY. Insights and Innovations from AO Spine Asia Pacific. Adolescent Idiopathic Scoliosis. AO-AIS eBook. Chapter 3: Novel Tools for Screening. 2024. AO Foundation.
- 3. Cheung PWH, Luk KDK, Cheung JPY. Insights and Innovations from AO Spine Asia Pacific. Adolescent Idiopathic Scoliosis. AO-AIS eBook. Chapter 7: Standardization of Skeletal Maturity Assessment. 2024. AO Foundation.
- 4. Fan YL, To MKT, Yeung EHK, Cheung **JPY**. Insights and Innovations from AO Spine Asia Pacific. Adolescent Idiopathic Scoliosis. AO-AIS eBook. Chapter 8: Physiotherapeutic Scoliosis-Specific Exercise. 2024. AO Foundation.
- 5. Cheung PWH, Luk KDK, Cheung JPY. Insights and Innovations from AO Spine Asia Pacific. Adolescent Idiopathic Scoliosis. AO-AIS eBook. Chapter 9: What Are the Factors Predicting Favorable Bracing Outcomes. 2024. AO Foundation.
- 6. Comparative Management of Spine Pathology (eBook). Section 2: Traumatic Spine: 27: Pure Bone Thoracolumbar Chance Fracture; Section 3: Spinal Deformity: 43: Broken Rod after Scoliosis Correction with Back Pain. Elsevier. 2023. ISBN: 978-0-323-82557-3.
- 7. Cheung JPY, Cheung KMC. Chapter 46: Lumbar Stenosis. Essentials of Spine Surgery. Published by Springer. June 2022. (Hard Copy: ISBN 978-3-030-80355-1; ebook: ISBN 978-3-030-80356-8).
- 8. Editor In-Chief (AOSpine e-book for Asia Pacific region).
- 9. Cheung JPY, Cheung KMC. Magnetically Controlled Growing Rods (MCGR) 磁控生长棒. Chapter 29, Section 4. Pediatric Spine 兒童脊柱外科學 (Chinese)
- 10. Cheung JPY, Koljonen PA, Luk KDK. Chapter 41: Surgical Complications with The Posterior Approach. Nontraumatic Cervical Myelopathy: Pathologies, Surgical Techniques, and Nuances. Nova Publishers.
- 11. Cheung JPY, Luk KDK. Lessons Learnt from MRC Trials. Association of Spine Surgeons of India (ASSI) Monograms. Thieme Publishers
- 12. Aiyer, SN, **Cheung JPY**. Kummell's Disease in The Setting of Severe Osteoporosis Traditional Sublaminar Wiring Techniques Still Have A Role in Modern Instrumentation. Challenging Cases in Back and Low Back Pain (2nd Ed).
- 13. Aiyer, SN, **Cheung JPY**. Pott's Paraparesis Of Late Onset Caused by An Angular Kyphotic Deformity. Challenging Cases in Back and Low Back Pain (2nd Ed).
- Cheung JPY, Nelson S, Sanders JO, El-Hawary R. Chapter 180 Early Onset Scoliosis. Evidence Based Orthopedics (EBO) Section 10: Pediatrics, p1067-1073.
- 15. Cheung JPY, Luk KDK. The Modified Anterior Approach to The Cervicothoracic Junction. Textbook of Spinal Surgery.
- Cheung JPY, Cheung KMC. Basic Concepts in Genetics and Intervertebral Disc Degeneration and Scoliosis. 7th Edition of Herkowitz-Rothman And Simeone: The Spine. Garfin SR, Eismont FJ, Bell GR, Fischgrund G, Bono C (Eds).
- 17. Cheung JPY, Luk KDK. Chapter 128: Complications of Anterior and Posterior Cervical Spine Surgery. The Spine: Medical & Surgical Management, Volume 1&2. JayPee Brothers Medical Publishers. ---2019
- 18. Cheung JPY, Luk KDK. Updates on Degenerative Spondylolisthesis and Spinal Stenosis. Current

Progress in Orthopedics v2. Johari A; Luk KDK; Waddell JP (Eds). TreeLife Media. ---2017

- 19. Cheung JPY, Ruan DK, Luk KDK. Chapter 17: Total Disc Transplantation: Current Results and Future Development. Biological Approaches to Spinal Disc Repair and Regeneration for Clinicians. Hartl R & Bonassar LJ (Eds). New York: Thieme, ---2017
- 20. Cheung JPY, Karppinen J, Samartzis D. Lumbar spinal Stenosis. Textbook of Spinal Phenotypes. Jaypee Brothers Publishing. ---2016
- 21. Teraguchi M, Cheung JPY, Samartzis D. High-intensity Zones. Textbook of Spinal Phenotypes. Jaypee Brothers Publishing.
- 22. Cheung KMC, Cheung JPY. Decision Making in Adult Deformity Surgery: Decompression Versus Short or Long Fusion. AOSpine Masters Series Volume 4, Adult Spinal Deformities. Thieme Medical Publishers, Inc. Vialle LR, Lenke LG, Cheung KMC (eds). Pages 12-27.
- 23. Cheung JPY, Karppinen J, Takatalo J, Wang H, Shen FH, Samartzis D: Cervical Degenerative Disease. In Shen FH, Samartzis D, Fessler RG (eds): Textbook of the Cervical Spine. Philadelphia, Elsevier. ---2014
- 24. Cheung JPY, Samartzis D, Ruan D, Luk KDK: Intervertebral disc transplantation. In Shen FH, Samartzis D, Fessler RG (eds): Textbook of the Cervical Spine. Philadelphia, Elsevier. ---2014
- 25. Cheung JPY. 2010 IFSSH Hand Surgery (11th Congress of the International Federation of Societies for Surgery of the Hand) Edited by Moon Sang Chung, Goo Hyun Baek, Hyun Sik Gong, Koonja Publishing, Inc. 2010. Authored Pages: 68-69, 78-79, 908-913, 916-917

Peer-reviewed Journal Publications (n=271)

In 2023

- Zhao M, Meng N, <u>Cheung JPY</u>, Yu C, Lu P, Zhang T. SpineHRformer: A Transformer-Based Deep Learning Model for Automatic Spine Deformity Assessment with Prospective Validation. **Bioengineering.** 2023; 10(11):1333. Doi: 10.3390/bioengineering10111333. (This article belongs to the Special Issue Artificial Intelligence in Auto-Diagnosis and Clinical Applications) (Authorship: Senior Author; Percentage of contribution: 25%)
- Al Zoubi FM, Wong AYL, Cheing GLY, <u>Cheung JPY</u>, Fu SN, Tsang HHL, Law RKY, So BCL, Tsang R, Tsang S, et al. Adapting a Clinical Practice Guideline for Management of Patients with Knee and Hip Osteoarthritis by Hong Kong Physiotherapists. **Healthcare**. 2023; 11(22):2964. Doi: 10.3390/healthcare11222964.
 [Impact Factor (InCites): 2.8, Ranking: 56 out of 105 in the field (Health Care Sciences & Services); No. of citations (Google Scholar): 0]

(Authorship: Co-Author; Percentage of contribution: 20%)

- Lau KKL, Law KKP, Kwan KYH, <u>Cheung JPY</u>, Cheung KMC. Proprioception-related gene mutations in relation to the aetiopathogenesis of idiopathic scoliosis: A scoping review. J Orthop Res. 2023 Dec;41(12):2694-2702. Doi: 10.1002/jor.25626. Epub 2023 Jun 4. PMID: 37203456. [Impact Factor (InCites): 3.103, Ranking: 24 out of 127 in the field (Orthpaedics); No. of citations (Google Scholar): 0] (Authorship:Co-author: Percentage of contribution: 10%)
- 4. Yan LI, Wong AYL, <u>Cheung JPY</u>, Zhu B, Lee KC, Liang SR, LI JY, Ho BYW, Bressington D. Psychosocial Interventions for Teenagers with Adolescent Idiopathic Scoliosis : A Systematic Literature

Review. Journal of Pediatric Nursing. 10 Nov 2023. ISSN 0882-5963. Doi: 10.1016/j.pedn.2023.10.037. [Impact Factor (InCites): 2.4, Ranking: 36 out of 191 in the field (Nursing); No. of citations (Google Scholar): 0] (Authorship:Co-Author; Percentage of contribution:20%)

 Chu K, Kuang X, Cheung PWH, Li S, Zhang T, <u>Cheung JPY</u>. Predicting Progression in Adolescent Idiopathic Scoliosis at the First Visit by Integrating 2D Imaging and 1D Clinical Information. **Global** Spine J. 2023 Oct 30:21925682231211273. Doi: 10.1177/21925682231211273. Epub ahead of print. PMID: 37903546.

[Impact Factor (InCites): 2.230, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]

(Authorship:Co-Author; Percentage of contribution:15%)

 Cheng AY ; Jim PK, Kwan NW, Chan SWW, <u>Cheung JPY</u>, Cheung PWH, Negrini S, Cheung CKC, Wong, AYL, Parent EC. Cross-Cultural Adaptation and Psychometric Properties of the Traditional Chinese Version of the Italian Spine Youth Quality of Life (ISYQOL) Questionnaire. Healthcare 2023, 11, 2683. Doi : 10.3390/healthcare11192683. [Impact Factor (InCites): 2.8, Ranking: 56 out of 105 in the field (Health Care Sciences & Services); No. of citations (Google Scholar): 0]

(Authorship:Co-Author; Percentage of contribution:10%)

- 7. Cheung MC, Yip J, Law D, <u>Cheung JPY</u>. Surface Electromyography (sEMG) Biofeedback Posture Training Improves The Physical and Mental Health of Early Adolescents With Mild Scoliosis : A Qualitative Study. **Digital Health**. 2023;9. Doi:10.1177/20552076231203820. [Impact Factor (InCites): 3.9, Ranking: 30 out of 105 in the field (Health Care Sciences & Services); No. of citations (Google Scholar): 0] (Authorship:Senior Author; Percentage of contribution:25%)
- Fan Y, To MKT, Yeung EHK, Kuang GM, Liang R, <u>Cheung JPY</u>. Electromyographic Discrepancy in Paravertebral Muscle Activity Predicts Early Curve Progression of Untreated Adolescent Idiopathic Scoliosis. Asian Spine J. Jul 2023;17 (5) :1-11. Doi : 10.31616/asj.2023.0199.
 [Impact Factor (Scopus): 2.539, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 1] (Authorship: Corresponding Author: Percentage of contribution: 20%)
- 9. Wu H, <u>Cheung JPY</u>, Zhang T, Shan Z, Zhang X, Liu J, Fan S, Zhao F. The Role of Hounsfield Unit in Intraoperative Endplate Violation and Delayed Cage Subsidence with Oblique Lateral Interbody Fusion. Glob Spine J. 2023 Sep;13(7):1829-1839. Doi: 10.1177/21925682211052515. Epub 2021 Nov 4. PMID: 34736351.
 [Impact Factor (InCites): 2.230, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 13]
 (Authorship:Co-author; Percentage of contribution: 30%)
- Zhao M, Meng N, Cheung JPY, Zhang T. PCT-GAN: A Real CT Image Super-Resolution Model for Trabecular Bone Restoration. 2023 IEEE 20th International Symposium on Biomedical Imaging (ISBI), Cartagena, Colombia, 2023, pp. 1-5, Doi: 10.1109/ISBI53787.2023.10230389.
 (Authorship: Co-author; Percentage of contribution: 20%)
- 11. Lau, K.K.L., Kwan, K.Y.H., <u>Cheung, JPY</u>. et al. Impact of Mental Health Components on the Development of Back Pain In Young Adults with Adolescent Idiopathic Scoliosis. Eur Spine J (2023). Doi: 10.1007/s00586-023-07908-w.
 [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]
 (Authorship:Co-author; Percentage of contribution: 25%)

- Germscheid N, <u>Cheung JPY</u>, Neva MH, et al. Research Practices and Needs Among Spine Surgeons Worldwide. Glob Spine J. 2023;13(7):1894-1908. Doi:10.1177/21925682211058158.
 [Impact Factor (InCites): 2.230, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 13]
 (Authorship:Co-author; Percentage of contribution: 50%)
- 13. Zhang T, Zhu C, Zhao Y, Zhao M, Wang Z, Song R, Meng N, Sial A, Diwan A, Liu J, <u>Cheung JPY</u>. Deep Learning Model to Classify and Monitor Idiopathic Scoliosis in Adolescents Using a Single Smartphone Photograph. JAMA Network Open. 2023;6(8):e2330617. Aug 23, 2023. Doi: 10.1001/jamanetworkopen.2023.30617. [Impact Factor (InCites): 13.8, Ranking: 10 out of 322 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 0] (Authorship: Co-author; Percentage of contribution: 20%)
- Ke W, Zhang T, Wang B, Hua W, Wang K, <u>Cheung JPY</u>, Yang C. Biomechanical Comparison of Different Surgical Approaches for the Treatment of Adjacent Segment Diseases after Primary Transforaminal Lumbar Interbody Fusion: A Finite Element Analysis. **Orthop Surg**. 24 Aug 2023. Doi: 10.1111/os.13866.
 [Impact Factor (InCites): 2.1, Ranking: 43 out of 128 in the field (Orthopaedics); No. of citations (Google Scholar): 0]

(Authorship: Co-author; Percentage of contribution: 15%)

- Cheung, PWH, Wong HL, Lau DSL, <u>Cheung JPY</u>. Directed Versus non-directed Standing Postures in Adolescent Idiopathic Scoliosis : Its Impact on Curve Magnitude, Alignment and Clinical Decision Making. **Spine**. Vol. 48, No.19, pp 1354-1364:10.1097/BRS.000000000004731. July 3, 2023. Doi: 10.1097/BRS.000000000004731.
 [Impact Factor (InCites): 3.269, Ranking: 27 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0] (*Authorship: Corresponding author; Percentage of contribution: 25%)*
- 16. Ye Z, Yip J, <u>Cheung JPY</u>, Liang R, Zhang J, Li X, Tong RKY. Posture Correction Girdle With Intelligent Padding System to Dynamically Adjust the Pressure Distribution to Correct the Scoliotic Spine. Healthcare and Medical Devices. AHFE 2023. Vol. 79, 2023, 12-20. Doi: 10.54941/ahfe1003468. (Authorship: Co-author; Percentage of contribution: 35%)
- 17. Meng N, Wong KYK, Zhao M, Cheung JPY, Zhang T. Radiograph-comparable Image Synthesis for Spine Alignment Analaysis Using Deep Learning with Prospective Clinical Validation. eClinical Medicine. June 2023. Doi: 10.1016/j.eclinm.2023.102050.
 [Impact Factor (InCites): 17.033, Ranking: 13 out of 329 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 0]
 (Authorship: Corresponding Author; Percentage of contribution: 30%)
- Riew GJ, Lovecchio F, Samartzis D, Louie PK, Germscheid N, An H, Cheung JPY, et al. Telemedicine in Spine Surgery: Global Perspectives and Practices. Glob Spine J. 2023;13(5):1200-1211. Doi:10.1177/21925682211022311. [Impact Factor (InCites): 2.230, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 13] (Authorship:Co-author: Percentage of contribution: 5%)
- Kawasaki S, Cheung PWH, Shigematsu H, Tanaka M, Suga Y, Yamamoto Y, Tanaka Y, <u>Cheung JPY</u>. Alternate In-Brace and Out-of-Brace Radiographs Are Recommended to Assess Brace Fitting and Curve Progression With Adolescent Idiopathic Scoliosis Follow-Up. **Glob Spine J**. 2023;13(5):1332-1341. Doi:10.1177/21925682211032559.
 [Impact Factor (InCites): 2.230, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 2]

(Authorship:Co-author; Percentage of contribution:5%)

- Lau KKL, Law KKP, Kwan KYH, <u>Cheung JPY</u>, Cheung KMC. Proprioception-Related Gene Mutations in Relation to The Aetiopathogenesis of Idiopathic Scoliosis: A Scoping Review. J Orthop Res. 2023 May 19. Doi: 10.1002/jor.25626. Epub ahead of print. PMID: 37203456. [Impact Factor (InCites): 3.103, Ranking: 24 out of 127 in the field (Orthpaedics); No. of citations (Google Scholar): 0] (Authorship:Co-author; Percentage of contribution: 20%)
- 21. Kuang GM., Loo NN., Gao Q. Li J, Luo L, Chen S, <u>Cheung JPY</u>, Cheung KMC. A Solitary Osteolytic Lesion With Pathological Fracture In The Cervical Spine A Case Report. BMC Musculoskelet Disord 24, 436 (2023). Doi : 10.1186/s12891-023-06543-2.
 [Impact Factor (InCites): 2.562, Ranking: 53 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]
 (Authorship: Co-author ; Percentage of contribution: 10%)
- 22. Wong DLL, Mong PT, Ng CY, Ong CK, Qian Z, Shao MH, Sin LKE, Wong BY, Wong CM, <u>Cheung JPY</u>, To M. Can Anterior Vertebral Body Tethering Provide Superior Range of Motion Outcomes Compared to Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis? A Systematic Review. Eur Spine J. 2023 May 31. Doi: 10.1007/s00586-023-07787-1. Epub ahead of print. PMID: 37256367. [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]
 (Authorship:Senior Author; Percentage of contribution:25%)
- 23. Cheung STY, Cheung PWH, <u>Cheung JPY</u>. Why Are Some Intervertebral Discs More Prone to Degeneration?: Insights Into Isolated Thoracic "Dysgeneration". Spine (Phila Pa 1976). 2023 Jun 15;48(12):E177-E187. Doi: 10.1097/BRS.00000000004632. Epub 2023 Mar 22. PMID: 37262423; PMCID: PMC10212581.
 [Impact Factor (InCites): 3.269, Ranking: 27 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]
 (Authorship: Co-author; Percentage of contribution: 35%)
- 24. Lei QE, Shu J, Wang J, Cheung HY, <u>Cheung JPY</u>, Wong WF, Lau SCY, Yip J, Tong RKY. Design and Characterize of Kirigami-inspired Springs and The Application in Vertebrae Exoskeleton for Adolescent Idiopathic Scoliosis Brace Treatment. Front. Mech. Eng. 9:1152930. 22 Mar 2023. Doi: 10.3389/fmech.2023.1152930.
 [Impact Factor (Scopus): 2.411, Ranking: 116 out of 163 in the field (InCites); No. of citations (Google Scholar): 0]
 (Authorship: Co- author; Percentage of contribution: 15%)
- 25. Mohammadi M, Zhang T, <u>Cheung JPY</u>. Modelling of Intervertebral Disc (IVD) with Structured Mesh and Crosswise Collagen Fibers. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference (EMBC). Sydney Australia. 24-28 July 2023. (Authorship:Co-author; Percentage of contribution: 10%)
- 26. Kuang XH, <u>Cheung JPY</u>, Huang T, Zhang T. SpineQ: Unsupervised 3D Lumbar Quantitative Assessment. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference (EMBC). Sydney Australia. 24-28 July 2023. (Authorship: Co-author; Percentage of contribution: 20%)
- 27. Cheung PWH, <u>Cheung JPY</u>, Can The Proximal Humeral Ossification System (PHOS) Effectively Guide Brace Weaning in Patients with Adolescent Idiopathic Scoliosis? Eur Spine J. 26 Apr 2023. Doi: 10.1007/s00586-023-07693-6.
 [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]
 (Authorship: Corresponding author; Percentage of contribution: 50%)

- Patient And Surgical Predictors of 3D Correction In Posterior Spinal Fusion: A Systematic Review. Wan SHT, Wong DLL., To SCH. Meng N, Zhang T, <u>Cheung JPY</u>. Eur Spine J. 20 Apr 2023. Doi: 10.1007/s00586-023-07708-2.
 [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]
 (Authorship: Co-author; Percentage of contribution: 5%)
- 29. Which Treatment Provides The Best Neurological Outcomes in Acute Spinal Cord Injury? Birch NC, <u>Cheung JPY</u>, Takenaka S, El Masri WS. Bone Joint J. 2023 Mar 15; 105-B(4):347-355. Doi: 10.1302/0301-620X.105B4.BJJ-2023-0111.
 [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 1]
 [Authorship: Co-author; Percentage of contribution: 30%])
- 30. 5-Year Progression Prediction of Endplate Defects : Utilizing The EDPP-Flow Convolutional Neural Network Based on Unbalanced Data. <u>Cheung JPY</u>, Kuang X, Zhang T, Wang K, Yang C. J Orthop Res.1 Mar 2023. Doi : 10.1016/j.jor.2023.03.001.
 [Impact Factor (InCites): 3.103, Ranking: 24 out of 127 in the field (Orthpaedics); No. of citations (Google Scholar): 0]
 (Authorship:First and corresponding author; Percentage of contribution: 50%)
- 31. Post-Maturity Progression in Adolescent Idiopathic Scoliosis Curves of 40° to 50°. Yu SH, Ng CM, <u>Cheung JPY</u>, Shea GKH. J Bone Joint Surg Am. 2023 ; 105 :1-9. Doi : 10.2106/JBJS.22.00939. [Impact Factor (InCites): 6.558, Ranking: Ranking: 2 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0] (Authorship: Co-author; Percentage of contribution: 15%)

In 2022

32. Kan MMP, Negrini S, Di Felice F, <u>Cheung JPY</u>, Donzelli S, Zaina F, Samartzis D, Cheung ETC, Wong AYL. Is Impaired Lung Function Related To Spinal Deformities In Patients With Adolescent Idiopathic Scoliosis ? A Systematic Review and Meta-Analysis—SOSORT 2019 award paper. Eur Spine J. 12 Dec 2022. Doi :10.1007/s00586-022-07371-z.
[Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0]

(Authorship: Co-author; Percentage of contribution: 5%)

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(Authorship: Co-author; Percentage of contribution: 5%; supported this multicenter collaboration with data from the Hong Kong cohort)

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[Impact Factor (InCites): 2.832, Ranking: 141 out of 267 in the field (Clinical Neurology); No. of citations (Google Scholar): 6]

(Authorship: Co-author; Percentage of contribution: 5%)

- 82. Lai W, Feng X, Yue M, Cheung PWH, Choi VNT, Song YQ, Luk KDK, Cheung JPY, Gao B. Identification of Copy Number Variants in Southern Chinese Cohort of Patients with Congenital Scoliosis. Genes. 2021; 12(8): 1213. Doi: 10.3390/genes12081213 [Impact Factor (InCites): 4.141, Ranking: 77 out of 191 in the field (Genetics & Heredity); No. of citations (Google Scholar): 2] (Authorship: Corresponding Author; Percentage of contribution: 30%)
- 83. Kawasaki S, Cheung PWH, Shigematsu H, Tanaka M, Suga Y, Yamamoto Y, Tanaka Y, Cheung JPY. Alternate In-Brace and Out-of-Brace Radiographs Are Recommended to Assess Brace Fitting and Curve Progression with Adolescent Idiopathic Scoliosis Follow-Up. Glob Spine J. 2021. P1-10. Epub Doi : 10.1177/21925682211032559.

[Impact Factor (InCites): 2.23, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 2]

(Authorship: Senior and Corresponding Author; Percentage of contribution: 40%)

- 84. Lim ASL, Sali AAB, Cheung JPY. Q Fever Spondylodiscitis In The Presence of Endovascular Infections : A Case Report. Hong Kong Med J. 2021 ;27(3) :216-218. Doi : 10.12809/hkmj208622. [Impact Factor (InCites): 3.125, Ranking: 147 out of 329 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 0] (Authorship: Senior and Corresponding Author; Percentage of contribution: 70%)
- 85. Cheung PWH, Cheung JPY. Does the Use of Sanders Staging and Distal Radius and Ulna Classification Avoid Mismatches in Growth Assessment with Risser Staging Alone ? Clin Orthop Relat Res. 2021. 26;479(11):2516-2530. Doi: 10.1097/CORR.00000000001817. [Impact Factor (InCites): 4.837, Ranking: 9 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 5] (Authorship: Senior and Corresponding Author; Percentage of contribution: 50%)
- 86. Riew G, Lovecchio F, Samartzis D, Louie PK, Germscheid N, An H, Cheung JPY, Chutkan N, Mallow GM, Neva MH, Phillips FM, Sciubba D, El-Sharkawi M, Valacoo M, McCarthy, MH, Makhni M, Iyer S. Telemedicine in Spine Surgery : Global Perspectives and Practices. Glob Spine J. 2021. P1-12. Doi : 10.1177/21925682211022311.

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(Google Scholar): 2] (Authorship: Co-author; Percentage of contribution: 5%)

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[Impact Factor (InCites): 1.437, Ranking: 83 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 4]

(Authorship: Senior and Corresponding Author; Percentage of contribution: 40%)

- 88. Tsang HHL, Wong CKH, Cheung PWH, Lau CS, Chung HY, <u>Cheung JPY</u>. Responsiveness of The Euroqol 5-Dimension (EQ-5D) Questionnaire in Patients with Spondyloarthritis. BMC Musculoskelet Disord. 2021;22 :439. Doi : 10.1186/s12891-021-04315-4.
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- 89. Wong CKH, Wong RS, <u>Cheung JPY</u>, Tung KTS, Yam JCS, Rich M, Fu KW, Cheung PWH, Luo N, Au CH, Zhang A, Wong WHS, Fan J, Lam CLK, Ip P. Impact of Sleep Duration, Physical Activity, and Screen Time on Health-Related Quality of Life In Children and Adolescents. Health Qual Life Outcomes. 2021;19:145. Doi: 10.1186/s12955-021-01776-y.
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- 90. Feng X, <u>Cheung JP</u>, Je JS, Cheung PW, Chen S, Yue M, Wang N, Choi VN, Yang X, Song YQ, Luk KD, Gao B. Genetic Variants of TBX6 and TBXT Identified in Patients with Congenital Scoliosis in Southern China. J Orthop Res. 2021 ;39(5) :971-988. Doi : 10.1002/jor.24805.
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- 91. Lai M, Cheung PWH, Samartzis D, Karppinen J, Cheung KMC, <u>Cheung JPY</u>. The Profile of The Spinal Column in Subjects with Lumbar Developmental Spinal Stenosis. Bone Joint J. 2021 ;103-B(4) :725-733. Doi : 10.1302/0301-620X.103B4.BJJ-2020-1792.R1.
 [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 7]
 (Authorship: -Corresponding Author; Percentage of contribution: 40%)
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 (Authorship: Corresponding Author; Percentage of contribution: 40%)
- 96. Leung GCN, Cheung PWH, Lau G, Lau ST, Luk KDK, Wong YW, Cheung KMC, Koljonen PA, <u>Cheung JPY</u>. Multidisciplinary Programme for Rehabilitation of Chronic Low Back Pain Factors Predicting Successful Return to Work. **BMC Musculoskelet Disord**. 2021 ;22(1) :251. Doi : 10.1186/s12891-021-04122-x.
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- 99. Fan Y, To MKT, Yeung EHK, Wu J, He R, Xu Z, Zhang R, Li G, Cheung KMC, <u>Cheung JPY</u>. Does Curve Pattern Impact on The Effects of Physiotherapeutic Scoliosis Specific Exercises on Cobb Angles of Participants with Adolescent Idiopathic Scoliosis : A Prospective Clinical Trial with Two Years Follow-Up. PLoS one. 2021 ;16(1) : e0245829. Doi : 10.1371/journal.pone.0245829.
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- 100. Shafi K, Lovecchio F, Riew GJ, Samartzis D, Louie PK, Germscheid N, An HS, <u>Cheung JPY</u>, Chutkan N, Mallow GM, Neva MH, Phillips FM, Sciubba DM, El-Sharkawi M, Valacco M, McCarthy MH, Makhni MC, Iyer S. Telemedicine in Research and Training : Spine Surgeon Perspectives and Practices Worldside. Eur Spine J. 2021 ;30 :2143-2149. Doi : 10.1007/s00586-020-06716-w. [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 4]

(Authorship: Co-author; Percentage of contribution: 5%)

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(Google Scholar): 21] (Authorship: Co-author; Percentage of contribution: 5%)

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- 109. Lam C, Chin WY, Wong CKH, Or CK, Fong DYT, Cheung JPY, Chao DVK, Wong ELY, Kind P. Effectiveness of Routine Measurement of Health-Related Quality of Life in Improving The Outcomes of Patients with Musculoskeletal Problems - A Cluster Randomized Controlled Trial : Protocol Paper. BMJ

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- 112. Lovecchio F, Riew GJ, Samartzis D, Louie PK, Germscheid N, An HS, <u>Cheung JPY</u>, Chutkan N, Mallow GM, Neva MH, Phillips FM, Sciubba DM, El-Sharkawi M, Valacco M, McCarthy MH, Makhni MC, Iyer S. Provider Confidence in The Telemedicine Spine Evaluation : Results From a Global Study. Eur Spine J. 2021 ; 30 :2109-2123. Doi : 10.1007/s00586-020-06653-8.
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- 113. Chung HY, Tam LS, Chan SCW, <u>Cheung JPY</u>, Wong PY, Ciang CO, Ng AHY, Law MY, Lai B, Wong P. Risk of Community-Acquired Pneumonia Requiring Hospitalization in Patients with Spondyloarthritis. Ther Adv Musculoskelet Dis. 2020 ;12 :1759720X20962618. Doi : 10.1177/1759720X20962618 [Impact Factor (InCites): 3.625, Ranking: 24 out of 52 in the field (Rheumatology); No. of citations (Web of Science): 1] (Authorship: Co-author; Percentage of contribution: 10%)
- 114. Zhang T, Sze KY, Peng ZW, Cheung KMC, Lui YF, Wong YW, Kwan KYH, <u>Cheung JPY</u>. Systematic Investigation of Metallosis Associated With Magnetically Controlled Growing Rod Implantation for Early-Onset Scoliosis. Bone Joint J. 2020;102-B(10):1375-1383. Doi: 10.1302/0301-620X.102B10.BJJ-2020-0842.R1.
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- 116. Lai MKL, Cheung PWH, Song YQ, Samartzis D, <u>Cheung JPY</u>. Pedigree Analysis of Lumbar Developmental Spinal Stenosis : Determination of Potential Inheritance Patterns. J Orthop Res. 2021;39(8):1763-1776. Doi: 10.1002/jor.24850.
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 (Authorship: Corresponding Author; Percentage of contribution:60%)
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<u>Cheung JPY</u>, Neva MH, El-Sharkawi M, Valacco M, Sciubba DM, Chutkan NB, An HS, Samartzis D. COVID-19 : Current And Future Challenges in Spine Care and Education – A Worldwide Study. **JOR Spine**. 2020 ;3(4) :e1122. Doi : 10.1002/jsp2.1122.

[Impact Factor (InCites): 3.757, Ranking: 18 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 6]

(Authorship: Co-author; Percentage of contribution: 5%)

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- 121. Fan Y, Ren Q, To MKT, <u>Cheung JPY</u>. Effectiveness of Scoliosis-Specific Exercises for Alleviating Adolescent Idiopathic Scoliosis : A Systematic Review. **BMC Musculoskelet Disord**. 2020 ;21(1) :495. Doi : 10.1186/s12891-020-03517-6. [Impact Factor (InCites): 2.562, Ranking: 53 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 33] (Authorship: Senior and Corresponding Author; Percentage of contribution: 30%)
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[Impact Factor (InCites): 3.374, Ranking: 99 out of 282 in the field (Surgery); No. of citations (Google

Scholar): 2] (Authorship: Co-author; Percentage of contribution: 5%)

- 125. Wang SQ, Wang XY, Shen YY, He B, Zhao XY, Cheung PWH, <u>Cheung JPY</u>, Luk KDK, Hu Y. An Ensemble-Based Densely-Connected Deep Learning System for Assessment of Skeletal Maturity. IEEE Transactions on Systems, Man, and Cybernetics : Systems. Doi : 10.1109/TSMC.2020.2997852. [Impact Factor (InCites): 11.471, Ranking: 3 out of 82 in the field (Automation & Control Systems); No. of citations (Google Scholar): 33] (Authorship: Co-author; Percentage of contribution: 20%)
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(Authorship:Co-author; Percentage of contribution:20%)

- 127. Wong SH, Yip J, Lo KYC, Cheung KMC, <u>Cheung JPY</u>, Kwan KYH, Yick KL, Ng SP. Non-Invasive Treatment of Adolescent Idiopathic Scoliosis : Systematic Literature Review By Using Citation Network Analysis. **Spine and Surgery**. 2020 : 1(1) :1-9. Doi : 10.31487/j.SSG.2020.01.01. (Authorship: Co-author; Percentage of contribution: 10%)
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 [Impact Factor (InCites): 3.269, Ranking: 27 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 8]
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- 129. Obid P, Yiu K, Cheung K, Kwan K, Ruf M, <u>Cheung JPY</u>. Magnetically Controlled Growing Rods in Early Onset Scoliosis : Radiological Results, Outcome, and Complications in a Series of 22 Patients. Arch Orthop Trauma Surg. 2021 ;141(7) :1163-1174. Doi : 10.1007/s00402-020-03518-z. [Impact Factor (InCites): 2.928, Ranking: 56 out of 282 in the field (Surgery); No. of citations (Google Scholar): 15] (Authorship: Senior Author; Percentage of contribution: 40%)
- 130. <u>Cheung JPY</u>, Cheung PWH, Shigematsu H, Takahashi S, Kwan MK, Chan CYW, Chiu CK, Sakai D, APSS Scoliosis Focus Group. Controversies With Nonoperative Management for Adolescent Idiopathic Scoliosis : Study From the APSS Scoliosis Focus Group. J Orthop Surg. 2020 ; 28(2) : 2309499020930291. Doi : 10.1177/2309499020930291.
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(Authorship: First and Corresponding Author; Percentage of contribution: 60%)

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(Authorship: Co-author; Percentage of contribution: 20%)

232. Williams R, <u>Cheung JPY</u>, Goss B, Rajasekaran S, Kawaguchi Y, Acharya S, Kawakami M, Satoh S, Chen WJ, Park CK, Lee CS, Foocharoen T, Nagashima H, Kuh S, Zheng Z, Condor R, Ito M, Iwasaki M, Jeong JH, Luk KDK, Prijambodo B, Rege A, Jahng TA, Luo ZJ, Tassanawipas W, Acharya N, Pokharel R, Shen Y, Ito T, Zhang ZH, Aithala J, Kumar GV, Jabir RA, Basu S, Li BJ, Moudgil V, Sham P, Samartzis D. An International Multicenter Study Assessing The Role of Ethnicity on Variation of Lumbar Facet Joint Orientation and The Occurrence of Degenerative Spondylolisthesis in Asia Pacific : A Study from The AOSpine Asia Pacific Research Collaboration Consortium. Glob Spine J. 2016;6(1):35-45. Doi: 10.1055/s-0035-1555655.

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(Authorship: Co-author; Percentage of contribution: 30%)

- 233. <u>Cheung JPY</u>, Samartzis D, Cheung PWH, Cheung KMC, Luk KDK. Reliability Analysis of The Distal Radius and Ulna Classification for Assessing Skeletal Maturity for Patients with Adolescent Idiopathic Scoliosis. **Glob Spine J**. 2016 ;6(2) :164-168. Doi : 10.1055/s-0035-1557142. [Impact Factor (InCites): 2.23, Ranking: 66 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 20] *(Authorship: First Author; Percentage of contribution: 70%)*
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(Authorship: First Author; Percentage of contribution: 70%)

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 (Authorship: First Author; Percentage of contribution:60%)
- 236. Wang Y, <u>Cheung JPY</u>, Cheung KMC. Use of PET/CT In The Early Diagnosis of Implant Related Wound Infection and Avoidance of Wound Debridement. Eur Spine J. 2016;25 Suppl 1:38-43. Doi: 10.1007/s00586-015-4044-5.
 [Impact Factor (InCites): 2.721, Ranking: 39 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 14]
 (Authorship: Co-author; Percentage of contribution: 50%)

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- 240. <u>Cheung JPY</u>, Mak KC, Tsang HHL, Luk KDK. A Lethal Sequelae Oo Spinal Infection Complicating Surgery and Radiotherapy for Head and Neck Cancer. Asian Spine J. 2015;9(4):1.4. Doi: 10.4184/asj.2015.9.4.617.
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- 241. <u>Cheung JPY</u>, Tse WL, Ho PC. Irreducible Volar Subluxation of The Proximal Interphalangeal Joint Due to Radial Collateral Ligament Interposition : Case Report and Review of Literature. Hand Surgery. 2015 ;20(1) :153-157. Doi : 10.1142/S0218810415720053.
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- 243. <u>Cheung JPY</u>, Samartzis D, Shigematsu H, Cheung KMC. Defining clinically relevant values for developmental spinal stenosis: A Large-scale Magnetic Resonance Imaging Study. Spine. 2014;39(13):1067-1076. Doi: 10.1097/BRS.00000000000335.
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(Authorship: First and Corresponding Author; Percentage of contribution: 60%)

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(Arthempting First and Compared data Arthem Presentation of contribution 70%)

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- 250. <u>Cheung JPY</u>, Samartzis D, Cheung KMC. Focus On : Management of Early-Onset Scoliosis. Bone and Joint J. 2013. <u>http://www.boneandjoint.org.uk/content/focus/management-early-onset-scoliosis</u> [Impact Factor (InCites): 5.385, Ranking: 4 out of 127 in the field (Orthopaedics); No. of citations (Google Scholar): 0] (Authorship: First Author; Percentage of contribution: 70%)
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(Authorship: First and Corresponding Author; Percentage of contribution:90%)

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 [Impact Factor (InCites): 3.125, Ranking: 147 out of 329 in the field (Medicine, General & Internal); No. of citations (Google Scholar): 35]
 (Authorship: Corresponding Author; Percentage of contribution: 70%)
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 (Authorship: First and Corresponding Author; Percentage of contribution: 50%)

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(Authorship: First and Corresponding Author; Percentage of contribution: 90%)

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of citations (Google Scholar): 7]

(Authorship: Co-author; Percentage of contribution: 20%)

Peer-reviewed Conference Papers (n=401)

International (n=300)

- Excessive Muscle Oxidative Stress Causes Abnormal Myogenesis and Spine Curvature in Adolescent Mice. 2024 Orthopaedics Research Society Annual Meeting. Long Beach, California. ---2-6 Febraury 2024.
- 2. 海湧,孟楠,趙墨馨,<u>鐘培言</u>,張騰。單中心前瞻性臨床驗證 SpineGPM(基於體表幾何形態的脊柱畸形曲線大型生成模型)。中華醫學會第 22 屆骨科學術會議暨第十五屆 COA 學術大會。 --- 22-26 Nov 2023.
- 3. 海湧,況熙和,<u>鐘培言</u>,張騰。基於十年隨訪大數據庫的腰椎智能綜合量化分析系統(SpineQ)的臨床驗證。中華醫學會第22屆骨科學術會議暨第十五屆 COA 學術大會。--- 22-26 Nov 2023.
- Variants Associated with Adolescent Idiopathic Scoliosis Perturb an Estrogen-Sensitive Pax1-Coll1a1-Mmp3 Signaling Axis. American Society for Bone and Mineral Research Meeting 2023. Vancouver. ---13-16 Oct 2023.
- 5. Poster Presentation : Ecological Momentary Assessment For Chronic Back Pain In Patients with Adolescent Idiopathic Scoliosis. 7th Rehabweek 2023. Singapore. ---24-28 Sep 2023. (Ren Lijuian)
- Abstract Session 7B : Adolescent Idiopathic Scoliosis and Adult Spinal Deformity Controversies: Mental Health Components in Adolescents are Associated with Onset of Back Pain during Adulthood: A Cohort of Non-operative Idiopathic Scoliosis with a Mean Follow-up of 9.8 Years. 58th Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington. ---6-9 Sep 2023.
- Abstract Session 5: Hibbs Award-Nominated Papers : Core Planar Cell Polarity Genes VANGL1 and VANGL2 in Predisposition to Congenital Scoliosis. 58th Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington. ---6-9 Sep 2023.
- Abstract Session 5: Hibbs Award-Nominated Papers : Impaired Glycine Neurotransmission Causes Adolescent Idiopathic Scoliosis. 58th Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington. ---6-9 Sep 2023.
- 9. Abstract Session 4: Adolescent Idiopathic Scoliosis and Harrington Lecture. Should We Adopt Gradual or Immediate Brace Weaning for AIS? A Randomized Controlled Trial. 58th Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington. ---6-9 Sep 2023.
- Zhao M, Meng N, Cheung JPY, Zhang T. PCT-GAN: A Real CT Image Super-Resolution Model for Trabecular Bone Restoration. 2023 IEEE 20th International Symposium on Biomedical Imaging (ISBI), Cartagena, Colombia, 2023, pp. 1-5, Doi: 10.1109/ISBI53787.2023.10230389. ---2023

- Poster : Accurate Cobb Angle Prediction via Learning Auxiliary Tasks. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference (EMBC). Sydney Australia. ---24-28 Jul 2023.
- 12. Poster : A Practical Hybrid System for Accurate Scoliosis Analysis. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference (EMBC). Sydney Australia. -- -24-28 Jul 2023.
- 13. Modelling of Intervertebral Disc (IVD) with Structured Mesh and Crosswise Collagen Fibers. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference (EMBC). Sydney Australia. ---24-28 Jul 2023.
- 14. SpineQ: Unsupervised 3D Lumbar Quantitative Assessment. 45th Annual International Conference of the IEEE Engineering in Medicine & Biology Conference (EMBC). Sydney Australia. ---24-28 Jul 2023.
- Posture Correction Girdle with Intelligent Padding System to Dynamically Adjust the Pressure Distribution and Correct the Scoliotic Spine. 14th International Conference on Applied Human Factors and Ergonomics (AHFE 2023). ---20-24 Jul 2023
- 16. 于辰曦,張騰,孟楠,吳南,孫水,<u>鐘培言</u>。基於卷積神經網絡的雙下肢全長 X 線自動分析平台的多中心有效性驗證。第十四屆中國醫師協會骨科醫師年會(CAOS2023)。青島,中國。---1-4 June 2023
- 17. 孟楠, 于辰曦, 吳楠, <u>鐘培言</u>, 張騰。基於裸背幾何形態的脊柱曲線合成。第十四屆中國醫師 協會骨科醫師年會(CAOS2023)。青島, 中國。---1-4 June 2023
- 18. Trabecular Bone Restoration for Clinical CT Images by Learning-Based Method. ISSLS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023.
- ePoster Presentation: Can Baseline Lumbar Multifidus Morphometry Predict Pain and Disability in The Ensuing Two Years Among People with Chronic Low Back Pain? ISSLS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023
- 20. ePoster Presentation: Impact on Patient-Perceived Quality of Life Between Chronic Non-specific Low Back Pain and Axial Spondyloarthritis: Propensity-matched Comparison. APSS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023
- 21. ePoster Presentation: Why are Some Intervertebral Disc More Prone to Degeneration? Insights into Isolated Thoracic 'Dysgeneration'. APSS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023
- 22. ePoster Presentation: Can the Proximal Humerus Ossification System (PHOS) Effectively Guide Brace Weaning in Patients with Adolescent Idiopathic Scoliosis? AOSpine. Spineweek 2023. Melbourne Australia. ---1-5 May 2023
- Session IV: Best Paper Session 1. Investigating Disease Burden, Management Approaches, and Clinical Course Prediction of Low Back Pain Using Machine Learning Based on Data From 6,426 Patients in Hong Kong. ISSLS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023
- 24. Session VI: Emerging Technologies. SpineQ: Unsupervised Learning-Based Pipeline for Fully Automated Quantitative Analysis of Lumbar MRI With Preliminary Validation. ISSLS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023
- 25. Free Paper Session IX: Paediatric Deformity Curve Progression & Outcome Studies. Multicenter Validation of Using the Distal Radius and Ulna (DRU) Classification to Predict Scoliosis Progression APSS Scoliosis Focus Group Study. APSS. Spineweek 2023. Melbourne Australia. ---1-5 May 2023

- 26. Oral Presentation in the Best Paper Presentation Session: The Electromyographic Discrepancy of Paravertebral Muscles Predicts an Early Curve Progression of Untreated Adolescent Scoliosis. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- Oral Presentation in the Best Paper Presentation Session: Core Planar Cell Polarity Genes VANGL1 and VANGL2 in Predisposition to Congenital Scoliosis. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- 28. Oral Presentation: Male Patients with Longer Disease Duration of Axial Spondyloarthritis have Less Severe Disc Degeneration. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- 29. Oral Presentation: Randomized Controlled Trial Comparing Immediate Versus Gradual Brace Weaning for Adolescent Idiopathic Scoliosis. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- Oral Presentation: Directed versus Non-directed Standing Posturers in Adolescent Idiopathic Scoliosis: Its Impact on Curve Magnitude, Alignment and Clinical Decision Making. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- Oral Presentation: Curve Overcorrection Predicts Coronal Imbalance in Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- 32. Oral Presentation: The Relationship between Compliance of Physiotherapeutic Scoliosis Specific Exercise and Curve Regression with Mild to Moderate Adolescent Idiopathic Scoliosis. APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- 33. Oral Presentation: Integrating 2D Radiographs and 1D Clinical Data in the AI Prediction of Adolescent Idiopathic Scoliosis Progression. AOSpine. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- 34. Oral Presentation: Decision Making for Bracing in >40-degree Curves. AOSpine. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- 35. Poster Presentation: Chronic Low Back Pain Has Worse Impact than Axial Spondyloarthritis: Propensitymatched Comparison. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---14 Apr 2023
- Poster Presentation: Curve Regression is Related to Compliance of Physiotherapeutic Scoliosis Specific Exercises. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---14 Apr 2023
- 37. Poster Presentation: Should We Brace over 40-degree Curves? The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---14 Apr 2023
- Presentation Award Session: Immediate versus Gradual Brace Weaning for Adolescent Idiopathic Scoliosis: A Randomized Controlled Trial. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13 Apr 2023
- Presentation Award Session: The Utility of the Proximal Humerus Ossification System (PHOS) for Brace Weaning in AIS. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13 Apr 2023
- 40. Presentation Award Session: Coronal Imbalance in Selective Thoracic Fusion for AIS is Determined by Curve Overcorrection. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13 Apr 2023
- 41. Presentation Award Session: Clinical Decision Making is Affected by Directed or Non-directed Standing

Postures in Adolescent Idiopathic Scoliosis. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13 Apr 2023

- 42. Presentation Award Session: AI Prediction of AIS Progression by Integrating 2D Radiographs and 1D Clinical Data. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13 Apr 2023
- 43. ePoster: EP-2-7 Chronic Low Back Pain has Worse Impact Than Axial Spondyloarthritis: Propensity-Matched Comparison. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13-15 Apr 2023
- 44. ePoster: EP-1-4 Should We Brace over 40-Degree Curves? The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---13-15 Apr 2023
- 45. ePoster: EP-1-5 Curve Regression is Related to Compliance of Physiotherapeutic Scoliosis Specific Exercises. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. --13-15 Apr 2023
- 46. Slow Twitch Paraspinal Muscle Dysregulation in Adolescent Idiopathic Scoliosis Exhibiting Hif-2α Misexpression. Orthopaedic Research Society 2023 Annual Meeting. ---11 Feb 2023
- 47. Male Spa Patients with Longer Disease Duration Have Less Severe Disc Degeneration—A Propensity-Score Matched Comparison with The Population. 24th Asia-Pacific League of Associations for Rheumatology Congress (APLAR 2022). ---9 Dec 2022
- 48. Spine Free Paper Session: Risk Factors for Indirect Decompression Failure after OLIF surgery. 22nd Congress of The Asia Pacific Orthopaedic Association. ---25 Nov 2022
- 49. Spine Free Paper Session: Coronal Imbalance is Discriminatory for Accelerated Curve Progression During Early Adulthood in Patients with Adolescent Idiopathic Scoliosis Curves of 40–50 Degrees Upon Skeletal Maturity. 22nd Congress of The Asia Pacific Orthopaedic Association. ---25 Nov 2022
- 50. Spine Free Paper Session: Utilizing the Novel Proximal Femur Maturity Index for Predicting Skeletal Growth in Patients with Idiopathic Scoliosis. 22nd Congress of The Asia Pacific Orthopaedic Association. ---25 Nov 2022
- Spine Free Paper Session: The Utility of the Proximal Humerus Ossification System (PHOS) to Guide Brace Weaning in Adolescent Idiopathic Scoliosis. 22nd Congress of The Asia Pacific Orthopaedic Association. ---24 Nov 2022
- 52. Spine Free Paper Session: The Supine Correction Index Predicts Outcomes with Bracing for Adolescent Idiopathic Scoliosis. 22nd Congress of The Asia Pacific Orthopaedic Association. ---24 Nov 2022
- 53. Spine Free Paper Session: Curve Overcorrection Predicts Coronal Imbalance in Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis. 22nd Congress of The Asia Pacific Orthopaedic Association. ---24 Nov 2022
- 54. Propensity-Matched Comparison Between Chronic Non-Specific Low Back Pain and Axial Spondyloarthritis: Impact on Patient-Perceived Quality of Life. 24th Asia-Pacific League of Associations for Rheumatology Congress (APLAR 2022). ---31 Oct 2022
- 55. Curve Overcorrection Predicts Coronal Imbalance in Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis, EuroSpine Annual Meeting 2022. ---20 Oct 2022
- 56. Core Planar Cell Polarity Genes Vangl1 and Vangl2 in Predisposition to Congenital Scoliosis. International Consortium for Spinal Genetics Development and Disease (ICSGDD) 2022 Annual

Meeting. ---7 October 2022

- 57. Adolescent Idiopathic Scoliosis with Spinal Proprioceptive Deficits is Associated with Curve Magnitudes of Over 45 Degrees. International Consortium for Spinal Genetics Development and Disease (ICSGDD) 2022 Annual Meeting. ---6 October 2022
- Directed Versus Non-directed Standing Postures in Adolescent Idiopathic Scoliosis: Its Impact on Curve Magnitude and Clinical Decision Making. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 59. An Artifical Intelligence Powered Platform for Auto-Analyses of Spine Alignment Irrespective of Image Quality with Prospective Validation. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 60. Spine-GFlow: A Hybrid Learning Framework for Robust Multi-tissue Segmentation in Lumbar MRI without Manual Annotation. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 61. Determing Brace Outcomes in Adolescent Idiopathic Scoliosis with the Supine Correction Index. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 62. Novel Index for Skeletal Growth in Pateints with Idiopathic Scoliosis: The Proximal Femur Maturity Index. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 63. Ossification System (PHOS) in Guiding Brace Weaning in Patients with Adolescent Idiopathic Scoliosis. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 64. Vertebral Body Tethering Results in Progressive Improvement in Coronal Cobb but Deterioration in Axial Rotation: A Three-Dimensional Analysis. SICOT 42nd Orthopaedic World Congress. ---28-30 Sep 2022
- 65. Paper #6 Tether Breakage in Vertebral Body Tethering is Better Explained by Inter-screw Distance Than Inter-screw Angle. SRS 57th Annual Meeting. ---14 Sep 2022
- 66. Paper #68 Variants in Collagen Homeostasis Genes are Associated with Adolescent Idiopathic Scoliosis. SRS 57th Annual Meeting. ---16 Sep 2022
- 67. Paper #114 Curve Overcorrection Predicts Coronal Imbalance in Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis. SRS 57th Annual Meeting. ---16 Sep 2022
- Poster #1876: Supine Correction Index: A Novel Predictor for Brace Outcome in Adolescent Idiopathic Scoliosis. SRS 57th Annual Meeting. ---14-17 Sep 2022
- 69. #1577 Contour-Aware 3D Medical Image Registration, 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC) 2022. ---11-15 Jul 2022
- 70. Management of Hip and Knee Osteoarthritis: An Adapted Clinical Practice Guideline for Hong Kong Physiotherapists. World Physiotherapy Asia Western Pacific Regional Congress 2022. ---18-20 Jun 2022
- 71. Medal Paper Session: The Role of The Proximal Humerus Ossification System (Phos) in Guiding Brace Weaning in Adolescent Idiopathic Scoliosis, APSS Annual Meeting 2022. ---11 Jun 2022
- 72. APSS e-poster: Utility of The Novel Supine Correction Index for Predicting Brace Outcomes in Adolescent Idiopathic Scoliosis. Spine Deformities. SCI. APSS Annual Meeting 2022. ---10-12 Jun 2022
- 73. APSS e-poster: The Proximal Femur Maturity Index: A Novel Tool for Staging Skeletal Growth in Patients with Scoliosis. Spine Deformities. PFMI. APSS Annual Meeting 2022. ---10-12 Jun 2022
- 74. APSS e-poster: Equipose For Lateral Access Surgery: APSS MEMBERS' Experience. Thoracic and

Lumbar Spine Degenerative Diseases. Lateral Access. APSS Annual Meeting 2022 ---10-12 Jun 2022

- 75. #137 Development of a Three-Dimensional Spinal Proprioception Assessment for Patients with Adolescent Idiopathic Scoliosis. Asian Spine Journal (ASJ) Special Edition. APSS Annual Meeting 2022 ----10-12 Jun 2022
- 76. MRI-SegFlow : A Novel Unsupervised Deep Learning Pipeline Enabling Accurate Vertebral Segmentation of MRI Images. 2020 42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBS), Montreal, QC, Canada, 2020, pp. 1633-1636. Doi : 10.1109/EMBC44109.2020.9175987. --- May 2022
- 77. #3338 An Artificial Intelligence Powered Platform for Auto-Analyses of Spine Alignment Irrespective of Image Quality with Prospective Validation. 48th ISSLS Annual Meeting. ---12 May 2022
- 78. #3014 Integrating 2D Radiographs And 1D Clinical Data in The AI Prediction of Adolescent Idiopathic Scoliosis Progression, 48th ISSLS Annual Meeting. ---11 May 2022
- 79. The Relationship Between Compliance of Physiotherapeutic Scoliosis Specific Exercises and Curve Regression with Adolescent Idiopathic Scoliosis: A Retrospective, Age- And Sex-Matched Case-Control Study. Block Five: Physcial Therapy Outcomes. SOSORT International Congress 2022. ---6 May 2022
- 80. #3015 Spine-SegLoop: A Deep Learning Framework for Multi-tissue Segmentation in Lumbar MRI with No Manual Annotations. 48th ISSLS Annual Meeting. ---May 2022
- 81. #3349 Chronic Non-specific Low Back Pain: Disease Burden, Management Status, and Clinical Course Prediction with Machine Learning. 48th ISSLS Annual Meeting. ---May 2022
- 82. High Interrater Reliability for Armspan and Ulnar Length Measurements. AAOS Annual Meeting 2022. ---22-26 Mar 2022
- 83. Session 109: Immediate Effects of Posture Correction Girdle on Adolescents with Early Scoliosis. 13th International Conference on Applied Human Factors and Ergonomics. AHFE 2022. ---27 July 2022
- 84. Are Rigid Cervical Collars Necessary for Patients Undergoing Open-Door Laminoplasty And Titanium Arch Plates for Cervical Myelopathy? – A Randomized Pilot Clinical Trial (Abstract #95, Health Research Symposium 2021 Organized by The Food and Health Bureau, The Government of The Hong Kong Special Administrative Region. ---23 Nov 2021
- 85. P172: Clinical Implications of Lumbar Developmental Spinal Stenosis Back Pain, Radicular Leg Pain and Disability With 2206 Subjects. Global Spine Congress 2021. ---3-6 Nov 2021
- 86. P062: The Components of Metallosis Generated by Magnetically Controlled Growing Rods and Their Implications. Global Spine Congress 2021. ---3-6 Nov 2021
- 87. Subclassification of Sanders Stage 7: The Use of Ulna Physis Can Improve Decision-Making for Brace Weaning in Adolescent Idiopathic Scoliosis. Global Spine Congress 2021. ---4 Nov 2021
- 88. Imaging Profile of Subjects with Lumbar Developmental Spinal Stenosis in A Population-Based Cohort Global Spine Congress 2021. ---5 Nov 2021
- 207. Screw Malalignment May Explain Cord Rupture in Vertebral Body Tethering: A Finite Element Analysis (John H. Moe Best Basic Research Poster). 56th Scoliosis Research Society Annual Meeting. ---24 Sep 2021
- 90. 41. Sanders Stage 7b: Using the Ulna Physis Improves Decision-Making for Brace Weaning in Adolescent Idiopathic Scoliosis (Hibbs Award-Nominated Papers for Best Basic/Translational and

Clinical Research; 56th Scoliosis Research Society Annual Meeting. ---24 Sep 2021

- 91. 3A. The First MCGR In the World Lessons Learned Over the Past 10 Years from Implantation to Graduation (Case Discussion 3: Novel Approaches to Instrumentation; 56th Scoliosis Research Society Annual Meeting. ---22 Sep 2021
- 92. Scoliosis in Osteogenesis Imperfecta Quality of Life and Surgical Impact: 41st SICOT Orthopaedic World Congress 2021 ---15-18 Sep 2021
- 93. Improved MRI-SegFlow Enabling Accurate Semantic Segmentation for Multiple Spinal Tissues in the Lumbar MRI Images. 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 94. Sanders 7b: Modification with The Ulna Physis To Improve Decision-Making for Brace Weaning in Idiopathic Scoliosis. Paediatric Orthopaedics Award Session. 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 95. Brace Treatment Can Lead to Permanent Curve Regression in Adolescent Idiopathic Scoliosis: Importance of Compliance and Flexibility: 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. Paediatric Orthopaedics Award Session. ---29-31 Jul 2021
- 96. Population-Based Analysis of The Clinical Implications of Lumbar Developmental Spinal Stenosis (Spine Section Award Winner). 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- Prediction of Lumbar Disc Degeneration Progression with Specified Clinical Parameters Using Artificial Intelligence (Spine Award Session). 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 98. Development of A Novel Device to Predict Accurate Sagittal Alignment Despite Variable and Poor-Quality Images Captured by Smartphones. 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 99. Vertical Instability in Spondylolisthesis: Assessment by Prone Traction Radiographs Determines Correction with Interbody Fusions: 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 100. Predicting Height at Skeletal Maturity for Adolescent Idiopathic Scoliosis Using Standardized Growth Parameters and Controlled for Curve Magnitude. 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 101. Predicting Curve Progression Risk in Adolescent Idiopathic Scoliosis with Supine Flexibility: 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 102. Novel Fracture Predictor Based on Micro-Finite Element Analysis Assessing Ineffective Bone Mass with Microarchitecture Varying Trabecular Elasticity: 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia. ---29-31 Jul 2021
- 103. Fully-Automated Deep Learning Prediction of Spinal Deformity Alignment Irrespective of Image Quality Obtained Via Smartphone Photographs: 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021). Kobe, Japan. ---10-12 Jun 2021
- 104. The Ipsilateral Epiphyseal and Central Endplate Hounsfield Units Accurately Predicts Intraoperative Endplate Violation and Delayed Cage Subsidence with Oblique Lateral Interbody Fusion: 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan. ---10-12 Jun 2021

- 105. Optimizing the Brace-Weaning Criteria in Adolescent Idiopathic Scoliosis: The Role of Utilizing the New Sanders 7b Staging: 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan. ---10-12 Jun 2021
- 106. Increased Population Risk of Radicular Leg Pain in Lumbar Developmental Spinal Stenosis. 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan. ---10-12 Jun 2021
- 107. Spinal Column Phenotypes with Lumbar Developmental Spinal Stenosis Results From 2387 Mris: 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan. ---10-12 Jun 2021
- 108. Do Both Morphometric and Mechanical Characteristics of Lumbar Multifidus in People with Chronic Low Back Pain Differ from Those of Asymptomatic Counterparts? ISSLS Virtual Annual Meeting 2021. OP. ---2-4 Jun 2021
- 109. Influence of Lumbar Developmental Spinal Stenosis on Back Pain, Leg Pain and Disability Prospective Cohort of 2206 Subjects: ISSLS Virtual Annual Meeting 2021 (OP Best Papers Clinical). ---2-4 Jun 2021
- 110. Learning-Based Coronal Spine Alignment Prediction Using Smartphone-Acquired Scoliosis Radiograph Images: ISSLS Virtual Annual Meeting 2021. OP. ---2-4 Jun 2021
- 111. Deficits in Proprioceptive Reweighting in Middle-Aged People with Chronic Low Back Pain and Asymptomatic People: A Cross-Sectional Study: ISSLS Virtual Annual Meeting 2021. SP. ---2-4 Jun 2021
- 112. Learning-Based Fully Automated Prediction of Lumbar Disc Degeneration Progression with Specified Clinical Parameters and Preliminary Validation. ISSLS Virtual Annual Meeting 2021. SP. ---2-4 Jun 2021
- 113. A Novel Tool to Provide Predictable Alignment Data Irrespective of Source and Image Quality Acquired on Mobile Phones: What Engineers Can Offer Clinicians: ISSLS Virtual Annual Meeting 2021. SP. ---2-4 Jun 2021
- 114. The Effectiveness of Motor Control Exercise in Improving Lumbar Multifidus Muscles Morphology in Patients with Low Back Pain – A Systematic Review: ISSLS Virtual Annual Meeting 2021. SP. ---2-4 Jun 2021
- 115. The Profile of The Spinal Column in Subjects with Lumbar Developmental Spinal Stenosis: ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021
- 116. The Role of Hounsfield Unit in Intraoperative Endplate Violation and Delayed Cage Subsidence with Oblique Lateral Interbody Fusion. ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021
- 117. A Computerized Analysis of The Aetiology Of Modic Changes Associated with Intervertebral Disc Degeneration: ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021
- 118. Predicting Spondylolisthesis Correction with Prone Traction Radiographs: ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021
- 119. Deep Learning Based Fully Automated Pathology Classification of Lumbar Spine: ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021
- 120. MRI-SegFlow V2.0: A Novel Unsupervised Deep Learning Pipeline Enabling Accurate Semantic Segmentation of Lumbar MR Images with Preliminary Validation: ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021

- 121. Importance of the Epiphyseal Ring in OLIF Stand-alone Surgery: A Biomechanical Study on Cadaveric Spines: ISSLS Virtual Annual Meeting 2021. GP. ---2-4 Jun 2021
- 122. Performance of Proxy-reported EQ-5D Youth Version 5-level (EQ-5D-Y-5L) in Comparison with Threelevel (EQ-5D-Y-3L) in Children and Adolescents with Scoliosis – Jiaer Lin - Virtual ISPOR 2021. ---17-20 May 2021
- 123. Analysis of Early-Onset Scoliosis Instrumentation Using Growing-Rod and Growth Guidance Systems – Xiaoyu Wang, JPY Cheung - 26th Congress of the European Society of Biomechanics. Milan, Italy. ---11-14 Jul 2021
- 124. The Relationship Between Electromyographic Amplitude of Paravertebral Muscles and Curve Progression in Chinese Adolescents with Idiopathic Scoliosis: A Prospective Cohort Study: Esosort (Shortlisted for Award) 2021 Virtual Meeting. ---29 Apr-1 May 2021
- 125. Real-Time 3D Reconstruction of The Scoliotic Ribcage of Adolescents with Major Thoracic Curves During Angular Breathing Exercises: A Proof of Concept Study: Esosort 2021 Virtual Meeting .---29 Apr-1 May 2021
- 126. Screening for Scoliosis Using Computer Vision and Machine Learning Allows High Throughput Screening: A Proof of Concept Study: eSOSORT 2021 Virtual Meeting. ---29 Apr-1 May 2021
- 127. Pre-Lecture Reading and Assessment Improves Retention of Knowledge in Final Year MBBS Students -Frontiers in Medical and Health Sciences Education 2020. Medical Education Disrupted – Negativity or Creativity. ---27-28 Nov 2020
- 128. Systematic Investigation of Metallosis Associated with Magnetically Controlled Growing Rod Implantation for Early Onset Scoliosis. 2020 ICEOS Virtual Meeting. ---14 Nov 2020
- 129. Accurate Body Appearance Detections and "Non-Radiation" X-Ray Synthesis Using Artificial Intelligence and Depth-Sensing Technologies. The 3rd Sydney Spinal VIRTUAL Symposium. ---10-11 Sep 2020
- 130. Performance of Proxy-reported EQ-5D Youth Version 5-level (EQ-5D-5L-Y) in Comparison with Three-Level (EQ-5D-3L-Y) in Chinese Patients with Adolescent Idiopathic Scoliosis. 4th EuroQol Scientific Academy Meeting 2020 Prague, Czech Republic. ---2-4 Mar 2020
- 131. Test-retest Reliability of Proxy-Reported and Self-Reported EQ-5D-Y in Patients with Adolescent Idiopathic Scoliosis. 4th EuroQol Scientific Academy Meeting 2020 Prague, Czech Republic. ---2-4 March 2020
- 132. Larson AN, Pahys J, Woon R, St. Hilaire T, El-Hawary R, Fitzgerald R, Cheung J. High Inter-Rater Reliability for Arm Span and Ulnar Length Measurements. 13th International Congress on Early Onset Scoliosis (ICEOS), Atlanta, Georgia,. ---21 Nov 2019
- 133. Agreement Between Self-Reported and Proxy-Reported EQ-5D-3L-Y Health Outcomes in Patients with Adolescent Idiopathic Scoliosis. 36th EuroQol Scientific Plenary Meeting 2019. Brussels, Belgium. ---18-21 Sep 2019
- 134. Paper #239. Insight into How to Use Multiple Skeletal Maturity Indices for Growth Assessment: Correlation Between Olecranon, Sanders and DRU Classification Systems. 54th Annual Meeting of the Scoliosis Research Society. Montreal, Canada. ---18-21 Sep 2019
- 135. Paper #156. Law of Temporary Diminishing Distraction Gains: The Phenomenon of Temporary Diminished Distraction Lengths with Magnetically Controlled Growing Rods That is Reverted with Rod

Exchange. 54th Annual Meeting of the Scoliosis Research Society. Montreal, Canada. ---18-21 Sep 2019

- 136. Paper #107. 3D-Printed Spinal Orthosis in Management of Adolescent Idiopathic Scoliosis: A Randomized Controlled Trial. 54th Annual Meeting of the Scoliosis Research Society. Montreal, Canada. ---18-21 Sep 2019
- 137. Establishment of A Standard Positioning Method for Scoliosis Study in Mouse Models (International Consortium for Spinal Genetics Development and Disease. Stockholm, Sweden. ---5-7 Sep 2019
- 138. Genetic Studies of Congenital Scoliosis in A Southern China Cohort (International Consortium for Spinal Genetics Development and Disease. Stockholm, Sweden. ---5-7 Sep 2019
- 139. Compound Heterozygosity of TBX6 in Patients with Congenital Scoliosis in South China. International Consortium for Spinal Genetics Development and Disease. Stockholm, Sweden. ---5-7 Sep 2019
- 140. Case Report: Characterization of A Novel Adolescent Idiopathic Scoliosis Patient Family. International Consortium for Spinal Genetics Development and Disease. Stockholm, Sweden. ---5-7 Sep 2019
- 141. A Novel Superelastic Shape-Memory Rod Provides More Options for Optimal AIS Correction: Biomechanical Analysis of a Clinical Trial with 5-Year Follow-Up. 26th International Meeting on Advanced Spine Techniques (IMAST). Amsterdam, the Netherlands. ---17-20 Jul 2019
- 142. Insight into How to Use Multiple Skeletal Maturity Indices for Growth Assessment: Correlation Between Olecranon, Digital and Wrist Classification Systems. 16th International Phillip Zorab Symposium. Dublin, Ireland. ---20-21 Jun 2019
- 143. How Do We Decide When to Wean Brace Treatment in Adolescent Idiopathic Scoliosis? Reducing Curve Progression Risk by Use of Standardized Skeletal Maturity Parameters. 16th International Phillip Zorab Symposium. Dublin, Ireland. ---20-21 Jun 2019
- 144. A Novel Method to Capture the Sagittal Profile in Spinal Deformities: The Reliability and Feasibility of Three-Dimensional Ultrasound Imaging. 16th International Phillip Zorab Symposium. Dublin, Ireland. ---20-21 Jun 2019
- 145. Detection of Coronal Scoliotic Curve Profile Alternation of Patients with Adolescent Idiopathic Scoliosis from Upright Sitting to Forward Bending. 16th International Phillip Zorab Symposium. Dublin, Ireland. ---20-21 June 2019
- 146. Feasibility of Proxy-Reported EQ-5D-3L-Y and Its Agreement in Health Outcomes with Patient Version for Patients with Adolescent Idiopathic Scoliosis. Guangzhou, China. EuroQol 1st Asia Academy Meeting. ---11-12 Jun 2019
- 147. 14: Male Gender and Initial Job Demand Predicts Successful Re-Integration and Return to Work: Results From 20-Years of Experience with A Multidisciplinary Programme For Rehabilitation of Chronic Low Back Pain. 46th ISSLS Annual Meeting. Kyoto, Japan. ---3-7 Jun 2019.
- 148. 69: The Influence of Developmental Spinal Stenosis on Reoperation Risk at The Adjacent Segment After Decompression Surgery for Lumbar Spinal Stenosis. 46th ISSLS Annual Meeting. Kyoto, Japan. ---3-7 Jun 2019
- 149. GP215: Relationship Between Spinopelvic Parameters and Chronic Neck, Back and Multiregional Pain. Kyoto, Japan. 46th ISSLS Annual Meeting. ---3-7 Jun 2019
- 150. GP232: Is Spinal Deformity Related to The Aerobic Capacity of Patients with Adolescent Idiopathic Scoliosis? A Systematic Review. Kyoto, Japan. 46th ISSLS Annual Meeting. ---3-7 Jun 2019

- 151. GP233: An Accepting Attitude and Lack of Negative Cognition Leads to Less Pain and Disability Related to Chronic Low Back Pain. 46th ISSLS Annual Meeting. Kyoto, Japan. ---3-7 Jun 2019
- 152. GP247: The Associations Between Spinal Deformities and Pulmonary Functions in Conservatively Treated Patients with Adolescent Idiopathic Scoliosis – A Systematic Review and Meta-Analysis. 46th ISSLS Annual Meeting. Kyoto, Japan. ---3-7 Jun 2019
- 153. GP261: Changes in Sagittal Alignment in Upslope or Downslope: An Insight into Dynamic Spinal Stenosis Symptomatology. 46th ISSLS Annual Meeting. Kyoto, Japan. ---3-7 Jun 2019
- 154. GP318: Biomechanical Stability of Pedicle Versus Cortical Screws in The Lumbar Spine. 46th ISSLS Annual Meeting. Kyoto, Japan. ---3-7 Jun 2019
- 155. S017 Defining Standardized Guidelines for Brace-Weaning in Adolescent Idiopathic Scoliosis. 12th Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 156. S077 Over 20-Years of Experience of a Multidisciplinary Programme For Rehabilitation of Chronic Low Back Pain – Factors Predicting Successful Re-Integration and Return to Work. 12th Combined Meeting of The Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 157. S109 A Computational Comparison of Lumbar Interbody Fusion Utilizing Different Interbody Cages with Unilateral and Bilateral Fixation (Best Paper Award Session: Basic Science). 12th Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 158. S184 The influence of developmental spinal stenosis on reoperation risk at the adjacent segment after decompression surgery for lumbar spinal stenosis. 12th Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 159. S194 Changes in Sagittal Alignment in Upslope or Downslope: An Insight into Dynamic Spinal Stenosis Symptomatology. 12th Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 160. XLIF Interbody Cage Reduces Stress and Strain of Fixation in Spinal Reconstructive Surgery in Comparison with TLIF Cage with Bilateral or Unilateral Fixation: A Computational Analysis. 2019 41st Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC). ---23-27 Jul 2019
- 161. Predicting Curve Progression in Adolescent Idiopathic Scoliosis Using Support Vector Machine Approach. The 9th WACBE World Congress on Bioengineering (WACBE 2019). Taipei, Taiwan. ---16-19 Aug 2019
- 162. Are Lung Functions Related to Spinal Deformities in Patients with Adolescent Idiopathic Scoliosis? A Systematic Review and Meta-Analysis (Best Paper Award). 14th International Meeting of SOSORT 2019. ---25-27 Apr 2019
- 163. The Association Between Aerobic Capacity and Spinal Deformity in Patients with Adolescent Idiopathic Scoliosis – A Systematic Review. 14th International Meeting of SOSORT 2019. ---25-27 Apr 2019
- 164. Insights into The Cellular Basis of Intervertebral Disc Disease Gained from The Transcriptomes of Single Cells. Gordon Research Conference on Cartilage Biology and Pathology. ---16-17 Mar 2019
- 165. EN-1-A-5 Long Term and End of Treatment Results of Magnetically Controlled Growing Rods for Early Onset Scoliosis. Tokyo, Japan. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov

2018

- 166. EN-2-C-2 Curve Magnitude, Sleep, Depression and Brace Treatment Are Significant Risk Factors for Developing Back Pain in Adolescent Idiopathic Scoliosis. Tokyo, Japan. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov 2018
- 167. EN-2-C-4 Anterior Correction of The Thoracolumbar or Lumbar Adolescent Idiopathic Scoliosis (AIS): Report on Short Fusion (Outstanding English Paper Award). The 52nd Annual Meeting of the Japanese Scoliosis Society, Tokyo, Japan. ---2-3 Nov 2018
- 168. EN-2-D-1 Predictors of Postoperative Shoulder Imbalance in Selective Thoracic Fusion for Adolescent Idiopathic Scoliosis: Impact of Fulcrum Flexibility (Outstanding English Paper Award). Tokyo, Japan. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov 2018
- 169. EN-2-D-3 Predicting Postoperative Curve Correction in Adolescent Idiopathic Scoliosis Using Curve Flexibility and The Sagittal Profile. Tokyo, Japan. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov 2018
- 170. EN-2-D-5 Are We Weaning Braces Too Early for Adolescent Idiopathic Scoliosis: The Problem with Current Bracing Guidelines. Tokyo, Japan. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov 2018
- 171. EN-2-D-6 An Insight into The Health-Related Quality of Life of Adolescent Idiopathic Scoliosis Patients Undergoing Bracing, Observation and Previously Braced. Tokyo, Japan. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov 2018
- 172. Fulcrum Flexibility of The Main Curve Predicts Postoperative Shoulder Imbalance in Selective Thoracic Fusion of Adolescent Idiopathic Scoliosis. Danish Orthopedic Society Congress. ---24-26 Oct 2018
- 173. Paper 164: Redefining Guidelines for Brace-Weaning in Adolescent Idiopathic Scoliosis Based on Standardized Skeletal Maturity Parameters. 53rd Annual Meeting & Course. Bologna, Italy. ---10-13 Oct. 2018
- 174. Paper 273: Radiation-Free 3D Ultrasound Can Provide Sagittal Profile of Adolescent Idiopathic Scoliosis. 53rd Annual Meeting & Course. Bologna, Italy. ---10-13 Oct 2018
- 175. 2C: Preoperative Traction, Riluzole, and 3D Modeling Optimizes the Safety of Correction of a Stiff 150-Degree Kyphoscoliosis Deformity. 53rd Annual Meeting & Course. Bologna, Italy. ---10-13 Oct 2018
- 176. Responsiveness of the 3-Level and 5-Level EQ-5D Youth Versions in Patients with Idiopathic Scoliosis. 35th Euroqol Plenary Meeting 2018. Lisbon, Portugal. ---19-22 Sep 2018
- 177. Topographical Sagittal Profile in 620 Patients Measured by A Novel Handheld Device. 25th International Meeting on Advanced Spine Techniques. ---11-14 Jul 2018
- 178. Sustainable Fashion Textiles Research on Innovative 3D Spacer Fabrics Comprising Shape Memory Alloy Wire for Pressure Reduction and Redistribution. Textile Institute World Conference 2018. Leeds, UK. ---24-26 Jul 2018
- 179. A Computational Comparison of The Lateral Lumbar Interbody Fusion with Unilateral and Bilateral Fixation. 40th Annual International Conference of The IEEE Engineering in Medicine and Biology Society, 2018. Honolulu, USA. ---18-21 Jul 2018
- 180. A Novel Approach to Sagittal Profiling of Adolescent Idiopathic Scoliosis Using 3D Ultrasound. The International Research Society of Spinal Deformities. IRSSD 2018 Meeting. ---14-16 Jun 2018

- 181. A Novel Scoliosis Instrumentation Using Special Super Elastic Nickel-Titanium Shape Memory Alloy Spinal Rods Can Result in Equivalent Correction as Conventional Rods but with Less Stress at Bone-Implant Interface: A Biomechanical Evaluation Through Simulations. The International Research Society of Spinal Deformities. IRSSD 2018 Meeting. ---14-16 Jun 2018
- 182. The Biomechanical Origins of Modic Changes as Mediated by Disc Stiffness: A Finite-Element Analysis. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 183. Predictability of Coronal Curve Flexibility in Postoperative Curve Correction in Adolescent Idiopathic Scoliosis: The Effect of The Sagittal Profile (Finalist for Best Clinical Paper). Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 184. Risk of Spring-Back Closure in Skipped-Level Plating for Open-Door Laminoplasty: Insight into Its Cost-Saving Potential. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 185. Are Rigid Cervical Collars Necessary for Patients Undergoing Open-Door Laminolasty and Titanium Arch Plates for Cervical Myelopathy? – A Randomized Clinical Trial. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 186. The Influence of Developmental Spinal Stenosis on Reoperation Risk at Adjacent Levels After Lumbar Spinal Stenosis Surgery. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 187. Reliability of Spino-Pelvic, Thoracic and Magnetically Controlled Growing Rod Distractions Using Biplanar Stereoradiography. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 188. Fulcrum Flexibility of The Main Curve Predicts Postoperative Shoulder Imbalance in Selective Thoracic Fusion of Adolescent Idiopathic Scoliosis. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 189. Mean 6-Year Follow-Up of Magnetically Controlled Growing Rod Patients with Early Onset Scoliosis. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---7-9 Jun 2018
- 190. Spinopelvic Alignment and The Development of Vertebral Endplate Abnormalities: The "Missing Link". Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2018. Banff, Canada. ---14-18 May 2018
- 191. Spinopelvic Alignment Predicts Disc Stiffness, Herniation, and Modic Changes: Evidence of An Evolutionary Etiology for Clinically-Relevant Spinal Phenotypes. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2018. Banff, Canada. ---14-18 May 2018
- 192. The Prevalence and Risk Factors of Back Pain in Patients with Adolescent Idiopathic Scoliosis A Large-Scale Cross-Sectional Study. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2018. Banff, Canada. ---14-18 May 2018
- 193. Does Lumbar Disc Degeneration Predict Facet Joint Changes or Vice Versa? A 5 Year Prospective MRI Study (Best Paper Prize). Annual Meeting of The International Society for the Study of the Lumbar Spine (ISSLS) 2018. Banff, Canada. ---14-18 May 2018
- 194. Developmental Spinal Stenosis: A Novel Rat Model with Circumferential Compression. Global Spine Congress 2018. Singapore. ---2-5 May 2018
- 195. Differential Psychometric Properties Of EQ-5D-5L and SF-6D Utility Measures in Patients with Low Back Pain. Global Spine Congress 2018. Singapore. ---2-5 May 2018
- 196. Curve Progression Matching with Skeletal Growth in Adolescent Idiopathic Scoliosis Using the Distal Radius and Ulna (DRU) Classification. Global Spine Congress 2018. Singapore. ---2-5 May 2018

- 197. Performance Characteristics of a Novel Handheld Web-Based Device For 3D Topographical Detection and Assessment of Scoliosis. Global Spine Congress 2018. Singapore. ---2-5 May 2018
- 198. Predicting the Risk of Curve Progression by The Distal Radius and Ulna Classification (DRU) For Patients with Adolescent Idiopathic Scoliosis. Global Spine Congress 2018. Singapore. ---2-5 May 2018
- 199. Lumbar Spinal Stenosis Treated by Conventional Microsurgical Laminotomy or Endoscopic Interlaminar Decompression: Cost-Analysis to Decision-Making. Global Spine Congress 2018. Singapore. ---2-5 May 2018
- 200. Risk of Spring-Back Closure in Skipped-Level Plating for Open-Door Laminoplasty: An Insight of Its Cost-Saving Potential. . Global Spine Congress 2018. Singapore. ---2-5 May 2018
- 201. Paper #26: Analysis of Sagittal Profile of Spine Using Ultrasound Imaging in Adolescent Idiopathic Scoliosis with The Assistance of Radiograph. 13th International Meeting of SOSORT 2018. ---17-21 Apr 2018
- 202. Paper #40: The Prevalence and Risk Factors of Back Pain in Patients with Adolescent Idiopathic Scoliosis: A Large-Scale Cross-Sectional Study. 13th International Meeting of SOSORT 2018. ---17-21 Apr 2018
- 203. Paper #60: Patterns of Coronal Curve Changes in Forward Bending Posture: A 3D Ultrasound Study of Adolescent Idiopathic Scoliosis Patients. 13th International Meeting of SOSORT 2018. ---17-21 Apr 2018
- 204. Measurement Properties of Five-Level and Three-Level EQ-5D-Y in Paediatric Patients in Hong Kong. The Third EuroQoL Academy Meeting. Budapest, Hungary. ---6-8 Mar 2018
- 205. Predicting Curve Progression at Skeletal Maturity in Adolescent Idiopathic Scoliosis Using the Distal Radius and Ulna Classification (SICOT Young Investigator Award). SICOT Annual Meeting 2017. ---30 Nov-2 Dec 2017
- 206. P19: Spinal Deformities in Osteogenesis Imperfecta Chinese Patients Analysis of 106 Cases. 11th International Congress on Early Onset Scoliosis, ICEOS. ---16-17 Nov 2017
- 207. The Best Distraction Frequency for Optimizing Spine and Rod Length Gains with Magnetically Controlled Growing Rods. 11th International Congress on Early Onset Scoliosis, ICEOS. ---16-17 Nov 2017
- 208. Rod Lengthening with The Magnetically Controlled Growing Rod: Factors Influencing Rod Slippage and Reduced Gains During Distractions. 11th International Congress on Early Onset Scoliosis, ICEOS. ---16-17 Nov 2017
- 209. Reliability of Spino-Pelvic and Thoracic Measurements with The EOS in Patients with Magnetically Controlled Growing Rods In-Situ. 11th International Congress on Early Onset Scoliosis, ICEOS. ---16-17 Nov 2017
- 210. Slow and Gradual Preoperative Halo Traction Provides Safe Correction of Severe Scoliosis in Patients with Osteogenesis Imperfecta. 11th International Congress on Early Onset Scoliosis, ICEOS. ---16-17 Nov 2017
- 211. Early Onset Scoliosis Treated by Magnetically Controlled Growing Rods: Mid-to Long-Term Follow-Up and Analysis Of 5 Graduates. 11th International Congress on Early Onset Scoliosis, ICEOS. ---16-17 Nov 2017
- 212. Fusion Mass Shift: Role in Prediction of Postoperative Distal Curve Adding-On in Adolescent Idiopathic

Scoliosis. 40th Annual Scientific Meeting of the Singapore Orthopaedic Association 2017. ---2-4 Nov 2017

- 213. The Significance of Clunking in Magnetically Controlled Growing Rod Distractions: A Prospective Analysis Of 22 Patients". 52nd Annual Meeting & Course of the Scoliosis Research Society 2017.
 6-9 Sep 2017
- 214. 1B: The Role of Magnetically-Controlled Growing Rods as A Temporary Internal Brace for Treatment of Adolescent Idiopathic Scoliosis with Failed Bracing. 52nd Annual Meeting & Course of the Scoliosis Research Society 2017. ---6-9 Sep 2017
- 215. 2D: Ten-Year Follow-Up of Jarcho-Levin Syndrome with Thoracic Insufficiency Treated by Prosthetic Rib/Rib Based Construct-Magnetically Controlled Growing Rod Hybrid. 52nd Annual Meeting & Course of the Scoliosis Research Society 2017. ---6-9 Sep 2017
- 216. 3A: Management of The Most Severe Dystrophic Cervical Kyphosis (140 Degrees) In Neurofibromatosis Type 1. 52nd Annual Meeting & Course of the Scoliosis Research Society 2017. ---6-9 Sep 2017
- 217. Novel Outlook on Curve Progression Prediction in Adolescent Idiopathic Scoliosis: Patterns for Those Who Require Observation Only, Bracing or Surgery. 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017
- 218. Traditional Growing Rod and Magnetically Controlled Growing Rod Treatment of Early Onset Scoliosis: Cost Analysis from Implantation till Maturity. 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017
- 219. UTE MRI Disc Sign: A Novel Imaging Biomarker Associated with Spine Degeneration, Pain and Disability. 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017
- 220. Predictability of Curve Progression in Adolescent Idiopathic Scoliosis Using the Distal Radius and Ulna Classification (Best Clinical Paper Award). 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017
- 221. The First Collaborative APSS Study: Variations in Practice for Cervical Myelopathy (Best Clinical Paper Award Nominee). 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017
- 222. The Effect of Clunking on Spine Lengthening with Magnetically Controlled Growing Rod Distractions (Best Clinical Paper Award). 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017
- 223. Lumbar "High-Intensity Zones" on MRI: Imaging Biomarkers Significantly Associated with Severe, Prolonged Low Back Pain and Sciatica in A Population-Based Cohort. 11th Combined Meeting of Asia

Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS) 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS) Pre-Meeting Course of International Society for The Advancement of Spine Surgery 2017. ---22-24 Sep 2017

- 224. Vertebral Endplate Abnormalities Are Highly Associated with Thoracic Disc Herniations In Symptomatic Patients. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2017. ---29 May-2 Jun 2017
- 225. Lumbar High-Intensity Zones On MRI: Imaging Biomarkers for Severe, Prolonged Low Back Pain and Sciatica in A Population-Based Cohort. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2017. ---29 May-2 Jun 2017
- 226. Multi-Dimensional Assessment of Vertebral Endplate Breaks On MRI: Implications in Spine Degeneration and Pain/Disability. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2017. ---29 May-2 Jun 2017
- 227. Radiographic Indices for Lumbar Developmental Spinal Stenosis. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2017. ---29 May-2 Jun 2017
- 228. Creating A Developmental Spinal Stenosis Rat Model and Utility of Somatosensory Evoked Potential for Testing. Annual Meeting of The International Society for The Study of The Lumbar Spine (ISSLS) 2017. ---29 May-2 Jun 2017
- 229. Predicting Peak Growth Spurt and Cessation of Growth with The Distal Radius and Ulna Classification. Annual Meeting & Course of the Scoliosis Research Society, SRS 2016. ---21-14 Sep 2016
- 230. Data-Driven Modeling for Scoliosis Prediction. IEEE International Conference on System Science & Engineering, ICSSE 2016. ---7-9 Jul 2016
- 231. A Machine Learning Based Prognostic Prediction of Cervical Myelopathy Using Diffusion Tensor Imaging. IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, CIVEMSA 2016. ---27-28 Jun 2016
- 232. Characterization and Predictive Value of "Segmental Curve Flexibility" in Adolescent Idiopathic Scoliosis Patients. APSS Session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 233. Predictability of Peak Growth Spurt and Growth Cessation Using the Distal Radius and Ulna Classification (APSS Best Oral Presentation 1st Prize). APSS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 234. Incidence of DJK After Selective Thoracic Fusion with Low Implant Density in AIS. APSS session, 2016 Spineweek, Singapore.---16-20 May 2016
- 235. The UTE MRI Disc Sign (UDS): A Novel Imaging Biomarker Associated with Spine Degeneration, Pain and Disability. APSS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 236. Are Magnetically Controlled Growing Rods Useful as An Internal Splint in Idiopathic Scoliosis? APSS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 237. Cervical Spinal Canal Stenosis First Presenting After Spinal Cord Injury Due to Minor Trauma: An Insight into The Value of Preventive Decompression. APSS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 238. Effect of An Imbalanced Fusion Block with Residual Shift on Distal Adding-On Segments After Adolescent Idiopathic Scoliosis Surgical Correction. APSS session, 2016 Spineweek, Singapore. --16-20 May 2016

- 239. Consensus on The Clinical Diagnosis of Lumbar Spinal Stenosis: Results of An International Delphi Study (ISSLS prize Clinical). ISSLS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 240. SP4: Novel Classification and Risk Factors of High Intensity Zones of The Lumbar Spine: The Wakayama Spine Study. ISSLS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 241. Matched Comparative Study Between ACDF And Laminoplasty for 2-3 Levels Cervical Myelopathy, Neurological Outcome and Late Kyphosis. APSS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 242. Natural History Study of Ossification of The Yellow Ligament: Five-Year Longitudinal MRI Follow-Up. ISSLS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 243. Natural History of Lumbar Disc Degeneration and Other Spinal Phenotypes On MRI: A Prospective, Comparative Five-Year Longitudinal Study. ISSLS session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 244. Lumbar Paravertebral Muscle Fatty Infiltration: Spatial Distribution and Association with Disc Degeneration in An Asian Population. AOSpine session, 2016 Spineweek, Singapore. ---16-20 May 2016
- 245. Prediction of Peak Growth and Growth Cessation Using the Distal Radius and Ulna Classification. 19th Asia Pacific Orthopaedic Association Congress 2016, Melbourne, Australia. ---29 Mar-1 Apr 2016
- 246. Poster 14: The Relationship of Ligamentum Flavum Hypertrophy and Developmental Spinal Stenosis. 19th Asia Pacific Orthopaedic Association Congress 2016, Melbourne, Australia. ---29 Mar-1 Apr 2016
- 247. Five Year Longitudinal MRI Follow-Up of a Population Based Cohort of Subjects with Ossified Yellow Ligament: A Natural History Study (APSS Best Spine Paper Award). 19th Asia Pacific Orthopaedic Association Congress 2016, Melbourne, Australia. ---29 Mar-1 Apr 2016
- 248. Free Paper #3: Prospective Correlation Study Between Ultrasound and Radiographs for Monitoring Distractions in Magnetically-Controlled Growing Rods. ICEOS 2015: 9th International Congress on Early Onset Scoliosis, Boston, MA, USA. ---19-20 Nov 2015
- 249. P37 The Clunking Phenomenon in Magnetically-Controlled Growing Rods: Possible Risk Factors. ICEOS 2015: 9th International Congress on Early Onset Scoliosis, Boston, MA, USA. ---19-20 Nov 2015
- 250. P48 Magnetically-Controlled Growing Rods: Does the Law of Diminishing Returns Apply? ICEOS 2015:
 9th International Congress on Early Onset Scoliosis, Boston, MA, USA. ---19-20 Nov 2015
- 251. UTE MRI Disc Sign (UDS): A Novel Imaging Biomarker Associated with Spine Degeneration, Pain and Disability. 42nd Annual Meeting of The International Society for The Study of The Lumbar Spine 2015, San Francisco, USA. ---8-12 Jun 2015
- 252. Proteoglycan Profile and Level-Specific Imaging Biomarkers of Lumbar Disc Displacement. 42nd Annual Meeting of The International Society for The Study of The Lumbar Spine 2015, San Francisco, USA. ---8-12 Jun 2015
- 253. Magnetically-Controlled Growing Rods for Managing Scoliosis: Does the Law of Diminishing Returns Apply? Hong Kong 2015 The Combined Congress of 12th Hong Kong International Orthopaedic Forum (HKIOF) & 10th Combined Congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China) ---4-7 Jun 2015
- 254. An International Multi-Center Study Assessing the Role of Ethnicity Upon Variation of Lumbar Facet

Joint Orientation and The Occurrence of Degenerative Spondylolisthesis in Asia Pacific: A Study from The AOSAP Research Collaboration Consoritum. Hong Kong 2015 The Combined Congress of 12th Hong Kong International Orthopaedic Forum (HKIOF) & 10th Combined Congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China) ---4-7 Jun 2015

- 255. Efficacy of Postoperative Pain Management of The Iliac Crest Bone Graft Harvesting Site in Adolescent Idiopathic Scoliosis Patients: A Parallel, Double-Blinded, Randomized Controlled Trial. Hong Kong 2015 The Combined Congress of 12th Hong Kong International Orthopaedic Forum (HKIOF) & 10th Combined Congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China) ---4-7 Jun 2015
- 256. Distraction Failure in Magnetically-Controlled Growing Rods: Prevalence and Risk Factors. Hong Kong 2015 The Combined Congress of 12th Hong Kong International Orthopaedic Forum (HKIOF) & 10th Combined Congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China) ---4-7 Jun 2015
- 257. Spinal Deformity-The Distal Radius and Ulna (DRU) Classification in Assessing Skeletal Maturity: A Simplified Scheme and Reliability Analysis. Hong Kong 2015 The Combined Congress of 12th Hong Kong International Orthopaedic Forum (HKIOF) & 10th Combined Congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China) ---4-7 Jun 2015
- 258. The 5-Year Follow-Up of a Randomized Double-Blinded Clinical Trial to Evaluate the Safety and Efficacy of Super-Elastic Memory Alloy Spinal Rod Versus A Standard Titanium Spinal Rod In Patients With Adolescent Idiopathic Scoliosis. Hong Kong 2015 The Combined Congress of 12th Hong Kong International Orthopaedic Forum (HKIOF) & 10th Combined Congress of the Asia Pacific Spine Society (APSS) & Asia Pacific Paediatric Orthopaedic Society (APPOS): Hong Kong, China) ---4-7 Jun 2015
- 259. Paper 74: Magnetically-Controlled Growing Rods: Does the Law of Diminishing Returns Apply? 50th Annual Meeting & Course of the Scoliosis Research Society 2015. Minneapolis, Minnesota, USA. ---30 Sep-3 Oct 2015
- 260. Paper 115: A Randomized Double-Blinded Clinical Trial to Evaluate the Safety and Efficacy of Super-Elastic Memory Alloy Spinal Rod Versus A Standard Titanium Spinal Rod in Patients with Adolescent Idiopathic Scoliosis: Five-Year Follow-Up. 50th Annual Meeting & Course of the Scoliosis Research Society 2015. Minneapolis, Minnesota, USA. ---30 Sep-3 Oct 2015
- 261. Paper 40426: Significance of Ligamentum Flavum Hypertrophy in Developmental Spinal Stenosis 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China. ---17-19 Sep 2015
- 262. Distraction Failure in Magnetically-Controlled Growing Rods: Prevalence and Risk Factors. 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China. ---17-19 Sep 2015
- 263. Paper 39189: Managing Early Onset Scoliosis with Magnetically-Controlled Growing Rods for Managing Scoliosis: Does the Law of Diminishing Returns Apply? 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China. ---17-19 Sep 2015
- 264. Paper 39188: Randomized Double-Blinded Clinical Trial to Evaluate the Safety and Efficacy of Superelastic Memory Alloy Spinal Rod Versus Standard Titanium Spinal Rod in Patients with Adolescent Idiopathic Scoliosis: Five-Year Follow-up Results. 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China. ---17-19 Sep 2015
- 265. An International, Large-Scale Multi-Center Study Assessing the Role of Facet Joint Angulation and Tropism with The Development of Lumbar Degenerative Spondylolisthesis – A Study from The AOSAP Research Collaboration Consortium. 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China.

---17-19 Sep 2015

- 266. Is Lumbar Facet Tropism Developmental or Secondary to Remodeling Changes? An International, Large-Scale Multi-Centre Study by The AOSAP Collaboration Consortium. 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China. ---17-19 Sep 2015
- 267. Efficacy of Postoperative Pain Management of The Iliac Crest Bone Graft Harvesting Site in Adolescent Idiopathic Scoliosis Patients: A Parallel, Double-Blinded, Randomized Controlled Trial. 36th SICOT Orthopaedic World Congress 2015. Guangzhou, China. ---17-19 Sep 2015
- 268. Paper 23: Use of Ultrasound to Monitor Distractions by Magnetically-Controlled Growing Rods: A Longitudinal Correlation Study. IMAST 2015: 22nd International Meeting on Advanced Spine Techniques: Kuala Lumpur, Malaysia. ---8-11 Jul 2015
- 269. Paper 91: "Distraction Failure" In Magnetically-Controlled Growing Rods: Prevalence and Risk Factors. IMAST 2015: 22nd International Meeting on Advanced Spine Techniques: Kuala Lumpur, Malaysia. ---8-11 Jul 2015
- 270. Gender and Age-Related Changes of Diffusion Tensor Imaging Parameters of Cervical Spinal Cord. North American Spine Society 29th Annual Meeting Podium Presentation 2014. Chicago, USA. ---12-15 Nov 2014
- 271. Developmental Spinal Stenosis: GWAS Study on A Southern Chinese Population. HKOA Ambassador at The British Orthopaedic Association Annual Congress 2014: Brighton, UK. ---12-13 Sep 2014
- 272. Defining Clinically-Relevant Values for Developmental Spinal Stenosis: A Large Scale MRI Study. 41st Annual Meeting of The International Society for The Study of The Lumbar Spine 2014. Seoul, Korea. ---3-7 Jun 2014
- 273. Developmental Lumbar Spinal Stenosis in Southern Chinese: Findings from A Genome-Wide Association Study. Combined Academic Conference of the 18th Biennial Congress of The Asia Pacific Orthopaedic Association and the 36th Annual Meeting of The Royal College of Orthopaedic Surgeons of Thailand 2014. ---23-25 Oct 2014
- 274. The Safety and Efficacy of a Remotely Distractible, Magnetic Controlled Growing Rod (MCGR) For the Treatment of Scoliosis in Children. 50th Anniversary International Philip Zorab Symposium 2013. ---20-21 Jun 2013
- 275. Biomechanical Comparative Study of The Juggerknot[™] Soft Anchor Technique with Other Common Mallet Finger Fracture Fixation Techniques. Tetra Hand 2013 11th International Meeting on Surgical Rehabilitation of the Tetraplegic Upper Limb cum 26th HKSSH Annual Congress and 6th Annual Therapist Symposium of the Hong Kong Society for Hand Therapy: Hong Kong. ---7-9 Jun 2013
- 276. The Safety and Efficacy of a Remotely Distractible, Magnetic Controlled Growing Rod (MCGR) For the Treatment of Early-Onset Scoliosis: A Prospective Case Series with Minimum 2 Year Follow-Up. The 42nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research 2013. ---25-27 Apr 2013
- 277. Developmental Spinal Stenosis in the Chinese Population: Presence in Patients and Redefining Critical Values on MRI" (English Poster Award Finalist). The 42nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research 2013. ---25-27 Apr 2013
- 278. Developmental Spinal Stenosis in Chinese Population: Presence in Patients and Redefining Critical Values on MRI (Best Paper Finalist). The 42nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research 2013. ---25-27 Apr 2013

- 279. Verifying and Defining Developmental Spinal Stenosis: An MRI Based Study. HKOA Ambassador at 2013 NZOA Annual Scientific Meeting: Rutherford Hotel. Nelson, New Zealand. ---2013
- 280. Antimicrobial Prophylaxis to Prevent Surgical Site Infection in Adolescent Idiopathic Scoliosis Patients Undergoing Posterior Spinal Fusion – 2 Doses Vs Antibiotics till Drain Removal. 34th SICOT Orthopaeic World Congress 2013. Hyderabad, India. ---17-19 Oct 2013
- 281. Strategies to Decrease Perioperative Blood Loss in Adolescent Idiopathic Scoliosis Patients Undergoing Posterior Spinal Fusion – Judicious Use of Drains, Planned Surgical Procedure, Factors Influencing Intraoperative Blood Loss. 34th SICOT Orthopaeic World Congress 2013. Hyderabad, India. ---17-19 Oct 2013
- 282. The Safety and Efficacy of a Remotely Distractible, Magnetic Controlled Growing Rod (MCGR) For the Treatment of Early-Onset Scoliosis: A Prospective Case Series with Minimum 2 Year Follow-Up. Global Spine Congress 2013. Hong Kong. ---4-6 Apr 2013
- 283. Developmental Spinal Stenosis in the Chinese Population: Presence in Patients and Redefining Critical Values on MRI (Best Paper Session). Global Spine Congress 2013. Hong Kong. ---4-6 Apr 2013
- 284. Could Both T1 and T2-weighted MRI be Used for Spinal Stenosis Analysis. The 7th International Congress of Chinese Orthopaedic Association. Beijing, China 2012. ---15-18 Nov 2012
- 285. 166 Cases of Mycobacterium Marinum Tenosynovitis of the Hand and Wrist: Clinical Features, Management and Results (Finalist for 2010 APOA-Pfizer Best Scientific Paper Award for Orthopaedic Infection). eCM XII & APOA Infection Section Annual Scientific Meeting 2011. Congress Centre, Davos, Switzerland. ---2011
- 286. 166 Cases of Mycobacterium Marinum Tenosynovitis of the Hand and Wrist: Clinical Features, Management and Results. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010. Seoul, Korea. ---31 Oct-4 Nov 2010
- 287. Multiple Triggering in a Girl with Ehlers-Danlos Syndrome: A Case Report. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010. Seoul, Korea. ---31 Oct-4 Nov 2010
- 288. Mycobacterium Marinum Infection of the Deep Structures of the Hand and Wrist: 25 Years of Experience. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010. Seoul, Korea. ---31 Oct-4 Nov 2010
- 289. Mycobacterium Marinum Infection of the Hand and Wrist: A Review of Antibiotic Regimens. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010. Seoul, Korea. ---31 Oct-4 Nov 2010
- 290. A Review of Necrotizing Fasciitis in the Extremities. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010. Seoul, Korea. ---31 Oct-4 Nov 2010
- 291. Occupational Repetitive Strain Injuries in Hong Kong. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand 2010. Seoul, Korea. ---31 Oct-4 Nov 2010
- 292. Mycobacterium Marinum Infection of the Hand and Wrist: A Review of Antibiotic Treatment Regimens. 7th SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden. ---31 Aug-3 Sep 2010
- 293. Occupational Repetitive Strain Injuries in Hong Kong. 7th SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden. ---31 Aug-3 Sep 2010
- 294. Prognostic Factors of Mycobacterium Marinum Infection of the Hand and Wrist. 7th SICOT/SIROT

Annual International Conference 2010; Gothenburg, Sweden. ---31 Aug-3 Sep 2010

- 295. A Review of Necrotizing Fasciitis in the Extremities. 7th SICOT/SIROT Annual International Conference 2010; Gothenburg, Sweden. ---31 Aug-3 Sep 2010
- 296. Occupational Repetitive Strain Injuries in Hong Kong. The 4th International Congress of Chinese Orthopaedic Association 2009. Xiamen, China. ---19-22 Nov 2009
- 297. Mycobacterium Marinum Infection of the Hand and Wrist. The 4th International Congress of Chinese Orthopaedic Association 2009. Xiamen, China. ---19-22 Nov 2009
- 298. Treatment of Mycobacterium Marinum Infection of the Hand and Wrist in 166 Patients. The 4th International Congress of Chinese Orthopaedic Association 2009. Xiamen, China. ---19-22 Nov 2009
- 299. A Review of Necrotizing Fasciitis in the Extremities. The 3rd International Congress of Chinese Orthopaedic Association 2008. Suzhou, China. ---13-16 Nov 2008
- 300. Early Striatal & Extrastriatal Cerebral Grey Matter Excess Within 3 Weeks of Anti-Psychotic Treatment in Schizophrenia (Young Scientist Award). 13th Biennial Winter Workshop on Schizophrenia Research 2006. Davos, Switzerland. ---4-10 Feb 2006

Local (n=101)

- Free Paper Session II: Spine Increased Lengthening Frequency Does Not Adversely Affect the EOSQ Scores in Magnetically Controlled Growing Rod Surgeries in 134 Subjects Followed to Final Fusion. The Hong Kong Orthopaedic Association 43rd Annual Congress. --- 4-5 Nov 2023
- Free Paper Session II: Spine Can Anterior Vertebral Body Tethering Provide Superior Range of Motion Outcomes Compared to Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis? A Systematic Review. The Hong Kong Orthopaedic Association 43rd Annual Congress. --- 4-5 Nov 2023
- Free Paper Session II: Spine Influence of Curve Types on Spinal Flexibility Assessed by Ultrasound Scanning in Patients with Adolescent Idiopathic Scoliosis. The Hong Kong Orthopaedic Association 43rd Annual Congress. --- 4-5 Nov 2023
- 4. Free Paper Session II: Spine Correlation Between Knee Osteoarthritis and Lumbar Spondylosis. The Hong Kong Orthopaedic Association 43rd Annual Congress. --- 4-5 Nov 2023
- Free Paper Session X: Adult Joint Reconstruction II Multicenter Validation of An Automatic Analysis Platform for Full-Length Lower Limb X-Rays Based on Convolutional Neural Networks. The Hong Kong Orthopaedic Association 43rd Annual Congress. --- 4-5 Nov 2023
- Free Paper Session VII: Spine Prospective Clinical Validation of Mskalign: A Radiation-Free Portable Alignment Analysis System and Device for Scoliosis. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Free Paper Session VII: Spine Immediate Versus Gradual Brace Weaning in The Clinical Management of Adolescent Idiopathic Scoliosis—A Randomised Controlled Trial. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Free Paper Session VII: Spine Male Spa Patients in Later Disease Have Less Severe Disc Degeneration Due to Higher Msasss Scores Than Female—A Propensity-Score Matched Comparison with The Population. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- 9. Free Paper Session VII: Spine Why Are Some Intervertebral Discs More Prone to Degeneration? Insights into Isolated Thoracic 'Dysgeneration. The Hong Kong Orthopaedic Association 42nd Annual

Congress. ---5-6 Nov 2022

- Free Paper Session VII: Spine Inter-Screw Index: A Novel Method for Identifying Tether Breakage in Vertebral Body Tethering. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Free Paper Session VII: Spine Adolescent Idiopathic Scoliosis with Spinal Proprioceptive Deficits Are Associated with Curve Magnitudes of Over 45 Degrees. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Free Paper Session VII: Spine Vertebral Body Tethering of Main Thoracic Curve Results in Spontaneous Correction in Untethered Proximal Thoracic Cobb and Shoulder Balance: A Three-Dimensional Analysis. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Free Paper Session VII: Spine Vertebral Body Tethering Results in Progressive Improvement in Coronal Cobb but Deterioration in Axial Rotation, A Three-Dimensional Analysis. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Free Paper Session VII: Spine The Value of Computed Tomography Imaging in Diagnosing the Presence, Location and Morphology of Tether Breakages in Vertebral Body Tethering. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- 15. Free Paper Session IV: Adult Joint Reconstruction I The Use of The Distal Radius Ulna (DRU) Classification System in Predicting Final Limb Length—A User Friendly Method. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- Award Paper Session: Immediate Versus Gradual Brace Weaning in The Clinical Management of Adolescent Idiopathic Scoliosis—A Randomised Controlled Trial. The Hong Kong Orthopaedic Association 42nd Annual Congress. ---5-6 Nov 2022
- The Use of Alternate In-Brace and Out-Of-Brace Radiographs to Avoid Masking of Curve Progression in Adolescent Idiopathic Scoliosis Follow-Up (Best Poster Nominee). 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 18. The Novel Proximal Femur Maturity Index for Patients with Idiopathic Scoliosis (Best Poster). 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 19. Is Spinal Proprioception Altered in Adolescent Idiopathic Scoliosis? 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- The "Asymmetric Screw Sign" For Magnetically Controlled Growing Rods: A Novel Predictive Factor for Success of Distraction. 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 21. Distribution of Proprioceptive Deficit in Adolescent Idiopathic Scoliosis in Hong Kong: A Preliminary Analysis. 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 22. Deep Learning-Based Fully Automated Vertebral Endplates Irregularity Prediction Using Lumbar Magnetic Resonance Imaging. 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 23. Long-Term Outcomes of Early-Onset Scoliosis with Neurofibromatosis Treated by Magnetically Controlled Growing Rod: Retrospective Case Series Long-Term Outcomes. 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021

- 24. Local Experience with Anterior Vertebral Body Tethering for Scoliosis in Hong Kong. Best Spine Paper Award. 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 25. Osteogenesis Imperfecta Patients with Scoliosis Quality of Life and Surgical Impact. 41st Annual Congress of The Hong Kong Orthopaedic Association 2021. ---6-7 Nov 2021
- 26. Factors Affecting Pain and Disability in People with Chronic Low Back Pain (The Hong Kong College of Orthopaedic Surgeons 15th Rehabilitation Symposium Cum The 7th Sir Harry Fang Oration) (Best Paper Award) ---2021
- 27. Objective Changes in Physical Activity Among Patients with Lumbar Spinal Stenosis Following Prehabilitation Before Surgery – A Pilot Randomized Controlled Trial (The Hong Kong College of Orthopaedic Surgeons 15th Rehabilitation Symposium Cum The 7th Sir Harry Fang Oration) ---2021
- 28. Prediction of Final Body Height for Female Patients with Adolescent Idiopathic Scoliosis (Award Session). 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- Alignpro: A Robust Deep Learning-Based Prediction of Spinal Alignments Irrespective of Image Qualities Acquired from Smartphone Photographs of Radiographs Displayed on PACS (Award Session).
 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- Using the Ulna Physis In Improving Decision-Making for Brace Weaning in Adolescent Idiopathic Scoliosis (Best Poster Award). 40th Annual Congress of The Hong Kong Orthopaedic Association 2020.
 ---31 Oct-1 Nov 2020
- 31. A Novel Mechanical Parameter to Quantify the Microarchitecture Effect on Apparaent Modulus of Trabecular Bone: A Computational Analysis of Ineffective Bone Mass (Award Poster Session). 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 32. Systematic Investigation of Metallosis Associated with Magnetically Controlled Growing Rod Implantation for Early Onset Scoliosis. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 33. What Imaging Profile Exists for Subjects with Lumbar Developmental Spinal Stenosis? 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 34. Pedigree Analysis of Lumbar Developmental Spinal Stenosis: Determination of Potential Inheritance Patterns. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 35. Population-Based Prevalence of Multilevel Lumbar Developmental Spinal Stenosis. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- Clinical Implications of Lumbar Developmental Spinal Stenosis on Back Pain, Leg Pain, And Disability

 Results from A Cohort of 2206 Subjects. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 37. MRI-Segflow: A Deep Learning-Based Unsupervised Pipeline for Vertebral Segmentation of Spinal MRI Image. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- Prediction of Standing Radiographic Lumbar Lordosis by Using Supine MRI. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- Enhanced Recovery After Surgery (ERAS) Protocol for Scoliosis Leads to Improved Postoperative Outcome and Earlier Discharge from Hospital. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 40. Comparison of Proprioceptive Reweighting in Middle-Aged Patients with Chronic Low Back Pain and Healthy People: A Cross-Sectional Study. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 41. Patients' Perspective Regarding Surgical Management for Lumbar Spinal Stenosis: A Qualitative Study. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 42. Mismatch of The Risser Staging, The Distal Radius and Ulna Classification and Sanders Staging for Peak Growth in Patients with Adolescent Idiopathic Scoliosis. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 43. The Relationship Between Electromyographic Amplitude of Paravertebral Muscles and Curve Progression in Chinese Adolescents with Idiopathic Scoliosis: A Preliminary Study. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 44. A Systematic Review on The Effectiveness of Motor Control Exercise in Improving Morphology of Lumbar Multifidus Muscles in Patients with Low Back Pain. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 45. A Systematic Review on Lumbar Developmental Spinal Stenosis. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 46. The Crooked Rod Sign: A New Radiological Sign to Detect Deformed Threads in The Distraction Mechanism of Magnetically Controlled Growing Rods and A Mode of Distraction Failure. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 47. Establishing an Easily Accessible Testing System for Bone Hardness. 40th Annual Congress of The Hong Kong Orthopaedic Association 2020. ---31 Oct-1 Nov 2020
- 48. Impaired Lung Function and Relationship to Spinal Deformities in Patients with Adolescent Idiopathic Scoliosis: A Systematic Review and Meta-Analysis. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- 49. Multiple Skeletal Maturity Indices for Maturity Assessment: Relationship Between the Simplified Olecranon, Simplified Digital, And Distal Radius, And Ulna Classifications. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- Responsiveness Property of The Traditional Chinese Version of the 24-Item Early-Onset Scoliosis Questionnaires. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- 51. Effect of Magnetically Controlled Growing Rods on Three-Dimensional Changes in Deformity Correction. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- Validation of Paediatric Quality of Life Inventorytm (Pedsqltm) Generic Core Scales 4.0 In Chinese Patients with Idiopathic Scoliosis. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- Curve Regression Timing with Underarm Bracing for Adolescent Idiopathic Scoliosis: Predictive Factors and Clinical Implications. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- 54. Temporary Reductions in Distraction Lengthening Occurs in Magnetically Controlled Growing Rods: A Phenomenon That Defies the Law of Diminishing Gains. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- 55. Anterior Cervical Discectomy and Fusion for Cervical Myelopathy Using Standalone Tricortical Iliac

Crest Autograft: Predictive Factors for Neurological and Fusion Outcomes. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019

- 56. Patterns of Coronal and Sagittal Deformities in Adolescent Idiopathic Scoliosis. 39th Annual Congress of The Hong Kong Orthopaedic Association 2019. ---2-3 Nov 2019
- 57. Predictors of Flatback Deformity During Brace Treatment for Adolescent Idiopathic Scoliosis: Influence of Spinopelvic Parameters (Best Spine Paper Award). 39th Annual Congress of The Hong Kong Orthopaedic Association 2019) ---2-3 Nov 2019
- Hong Kong Spine Surgery Registry Cervical Myelopathy. Hospital Authority Convention 2019. --- 21 May 2019
- 59. Single Cell Analyses of Human Intervertebral Discs Implicate HOPX as A Regulator of Homeostasis SBMS Research Day, School of Biomedical Sciences, The University of Hong Kong. ---2018
- 60. A Study of Injury Mechanism: Traumatic Bilateral L4-5 Facet Dislocation Case Report and Literature Review. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- Changes in Sagittal Alignment in Upslope or Downslope: An Insight into Dynamic Spinal Stenosis Symptomatology. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 62. The Influence of Developmental Spinal Stenosis on Reoperation Risk at The Adjacent Segment After Decompression Surgery for Lumbar Spinal Stenosis. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 63. The Prevalence and Impact of Cervical Spine Pathologies in Patients with Nasopharyngeal Carcinoma. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 64. Is Cervical Collar Useful After Laminoplasty? A Randomized Controlled Trial (Award Session-Trainee Prize (Dr. Thomas Leung Ka Chun)). 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 65. Psychological Factors Significantly Influences Pain Perception and Function in Individuals with Low Back Pain. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 66. Over 20-Years of Experience of a Multidisciplinary Programme For Rehabilitation of Chronic Low Back Pain – Factors Predicting Successful Re-Integration and Return to Work. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 67. The Epidemiology and Risk Factors of Back Pain in Adolescent Idiopathic Scoliosis A Large-Scale Study. 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- Redefining Guidelines for Brace Weaning in Adolescent Idiopathic Scoliosis Based on Standardized Skeletal Maturity Parameters (Award Session). 38th Annual Congress of The Hong Kong Orthopaedic Association 2018. ---3-4 Nov 2018
- 69. 1A.4 Psychological Factors Significantly Influences Pain Perception and Function in Individuals with Low Back Pain (14th Rehabilitation Symposium Cum 6th Sir Harry Fang Oration: Orthopaedic Rehabilitation Challenges and Outlooks) ---13-14 Oct 2018
- 70. 1A.5 Over 20-Years of Experience of a Multidisciplinary Programme For Rehabilitation of Chronic Low Back Pain – Factors Predicting Successful Re-Integration and Return to Work. 14th Rehabilitation Symposium Cum 6th Sir Harry Fang Oration: Orthopaedic Rehabilitation – Challenges and Outlooks. ---13-14 Oct 2018

- 71. Matching Curve Progression with Skeletal Growth in Adolescent Idiopathic Scoliosis: Insight into The Best Period for Brace Treatment (Paediatric Orthopaedics Award). 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. ---13-14 Oct 2018
- 72. Novel Compression Rat Model for Developmental Spinal Stenosis. 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. ---13-14 Oct 2018
- 73. Significance of Clunking with Magnetically Controlled Growing Rod Distractions (Paediatric Orthopaedics Award Finalist). 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. ---13-14 Oct 2018
- 74. The Patterns of Distractions in Magnetically Controlled Growing Rod Distractions: Any Effect of Law of Diminishing Returns? 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. --- 13-14 Oct 2018
- 75. Matching Curve Progression with Skeletal Growth in Adolescent Idiopathic Scoliosis: Insight into The Best Period for Brace Treatment (AR Hodgson Award). 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. ---13-14 Oct 2018
- 76. Predictability of Curve Progression in Adolescent Idiopathic Scoliosis Using the Distal Radius and Ulna Classification: Utility Tool for Initiating Brace Treatment. 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. ---13-14 Oct 2018
- 77. Outcomes and Cost-Saving Potential of Using Alternate-Level Plating in Single-Door Laminoplasty For Cervical Spondylotic Myelopathy. 37th Annual Congress of The Hong Kong Orthopaedic Association 2017. ---13-14 Oct 2018
- 78. Preliminary Results of The Effectiveness of a Clinical Pathway for Adolescent Idiopathic Scoliosis in The Duchess of Kent Children's Hospital at Sandy Bay (F-P8.20). Hospital Authority Convention 2017. ---16-17 May 2017
- 79. Surgical Management of Scoliosis in Patients with Osteogenesis Imperfecta How to Maximize Outcome? 36th Hong Kong Orthopaedic Association Annual Congress 2016. ---5-6 Nov 2016
- 80. The Relationship of Ligamentum Flavum Changes and Developmental Spinal Stenosis. 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015
- A Novel Approach in The Management of Thoracic Insufficiency Syndrome in Jarcho-Levin Syndrome Using A Magnetic Controlled Growing Rod – Vertical Expandable Prosthetic Titanium Rib Hybrid Construct. 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015
- 5-Year Longitudinal Magnetic Resonance Imaging Follow-Up of a Population-Based Cohort of Subjects with Ossified Yellow Ligament: A Natural History Study (Trainee Prize (Dr. Chris Tang)). 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015
- Proteoglycan Profiling of Lumbar Disc Displacement in Humans: Novel Imaging Biomarkers Utilizing T1rho Magnetic Resonance Imaging. 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015
- 84. Ultra-Short Time-To-Echo Magnetic Resonance Imaging Disc Sign: A Novel Imaging Biomarker Associated with Spine Degeneration, Pain, and Disability. 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015
- 85. The Relationship of Ligamentum Flavum Changes and Developmental Spinal Stenosis. 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015

- 86. Predictability of Peak Growth Spurt and Growth Cessation Using the Distal Radius and Ulna Classification. 35th Hong Kong Orthopaedic Association Annual Congress 2015. ---6-8 Nov 2015
- 87. Prediction of Lumbar Spinal Stenosis in Chinese: Findings from A Genome-Wide Association Study (AR Hodgson Award). 33rd Hong Kong Orthopaedic Association Annual Congress 2013. ---23-24 Nov 2013
- Developmental Spinal Stenosis in The Chinese Population: Presence in Patients and Redefining Critical Values on MRI (Arthur Yau Award). 32nd Hong Kong Orthopaedic Association Annual Congress 2012.
 ---1-2 Dec 2012
- 89. Could Both T1 And T2-Weighted MRI Be Used for Spinal Stenosis Analysis. 32nd Hong Kong Orthopaedic Association Annual Congress 2012. ---1-2 Dec 2012
- 90. Use of A Remotely Distractible, Magnetic Controlled Growing Rod for The Treatment of Scoliosis in Young Children (Arthur Yau Award). 31st Hong Kong Orthopaedic Association Annual Congress 2011. ---1-2 Dec 2012
- 91. Cervical Spine Complications After Radiotherapy for Nasopharyngeal Carcinoma. 31st Hong Kong Orthopaedic Association Annual Congress 2011. ---1-2 Dec 2012
- 92. Long Term Results of Distal Radio-Ulnar Joint Arthroplasty in Rheumatoid Patients. The 24th Annual Congress of The Hong Kong Society for Surgery of The Hand 2011. Pamela Youde Nethersole Eastern Hospital. ---26-27 Mar 2011
- 93. Multiple Triggering in A Girl with Ehlers-Danlos Syndrome: A Case Report. The 30th Hong Kong Orthopaedic Association Annual Congress 2010. ---27-28 Nov 2010
- 94. Prevalence of Post-Traumatic Stress Disorder After Orthopaedic Trauma. The 30th Hong Kong Orthopaedic Association Annual Congress 2010. ---27-28 Nov 2010
- 95. Prognostic Factors of Mycobacterium Marinum Infection of The Hand and Wrist". The 23rd Annual Congress of The Hong Kong Society for Surgery of The Hand 2010 (Best Paper Award). Pamela Youde Nethersole Eastern Hospital. ---2010
- 96. Treatment of Mycobacterium Marinum Infection of The Hand and Wrist In 166 Patients". The 29th Hong Kong Orthopaedic Association Annual Congress 2009. ---28-29 Nov 2009
- 97. A Review of Necrotizing Fasciitis in The Extremities". The 28th Hong Kong Orthopaedic Association Annual Congress 2008. ---28-30 Nov 2008
- 98. Depressive Disorder: Under-Recognized and Under-Appreciated". Hong Kong College of Physicians 2005 Annual Scientific Meeting. ---5-6 Nov 2005
- 99. Mycobacterium Marinum Infection of The Hand and Wrist. The 29th Hong Kong Orthopaedic Association Annual Congress 2009. ---2009
- 100. Occupational Repetitive Strain Injuries in Hong Kong. The 29th Hong Kong Orthopaedic Association Annual Congress 2009. ---2009
- 101. Stroke: The Incessant Pursuit of Optimal Therapeutic Strategies. Hong Kong College of Physicians 2006 Annual Scientific Meeting. ---14-15 Oct 2006

Patents 1 -

1. A Scoliosis Adjustment Tool 一種脊柱側彎矯正裝置

(Utility model patent) Patent No.: ZL 2022 2 0694926.5 Pub No.: CN 217548330 U Pub date: Oct 11, 2022 Inventors: Fan Liyun, **Cheung Jason Pui Yin**, Michael To Kai Tsun

- Lumbar Spine Anatomical Annotation Based on Magnetic Resonance Images Using Artificial Intelligence (US Provisional Application) Docket # 04435/010072-US0 Application #63/217,157 (6/30/2021) Inventors: Xihe Kuang, Jason PY Cheung, Teng Zhang
- Non-Contact, Non-Radiation Device That Accurately Locates Multiple Implants in A Patient's Body (US Provisional Application) Docket # 04435/010216-US0 Application # 63/233,526 (08/16/2021) Inventors: Qi Weichen, Zhang Teng, Cheung Jason Pui Yin
- Customizable Wearable Top to Treat Scoliosis in A Person Pub. No. US 2021/0059849 A1 Pub date: Mar. 4, 2021 Inventors: Yip, Yiu-Wan Joanne; Fung, Ho-Yi Olivia; Yick, Kit-Lun; Tse, Chi-Yung; Cheung, Man-Chee Kenneth; Kwan, Yat-Hong Kenny; Cheung, Pui-Yin Jason; Ng, Sun-Pui

Other Research Outputs

Published Feedback/Impact on Own Publication

- 1. Mendoza-Lattes SA. *CORR* Insights[®] : Poor Bone Quality, Multilevel Surgery, and Narrow and Tall Cages Are Associated with Intraoperative Endplate Injuries and Late-onset Cage Subsidence in Lateral Lumbar Interbody Fusion : A Systematic Review. **Clin Orthop Relat Res**. 2021 ;480(1) :189-90. Doi : 10.1097/CORR.00000000002061.
- 2. Duren DL. *CORR* Insights® : Does the Use of Sanders Staging and Distal Radius and Ulna Classification Avoid Mismatches in Growth Assessment with Risser Staging Alone ?. **Clin Orthop Relat Res**. 2021 ;00 :1-3. Doi : 10.1097/CORR.00000000001880.
- 3. Armstrong DG. *CORR* Insights[®]: Does Curve Regression Occur During Underarm Bracing in Patients with Adolescent Idiopathic Scoliosis ? **Clin Orthop Relat Res**. 2020 ;478 :346-347. Doi : 10.1097/CORR.00000000001048.
- 4. Hosalkar H. *CORR* Insights[®] : When Should We Wean Bracing for Adolescent Idiopathic Scoliosis ?. **Clin Orthop Relat Res**. 2019 ;477 :2158-2160. Doi : 10.1097/CORR.0000000000841.
- 5. Leopold SS. Editor's Spotlight/Take 5 : How Common Is Back Pain and What Biopsychosocial Factors Are Associated with Back Pain in Patients with Adolescent Idiopathic Scoliosis ?. Clin Orthop Relat Res. 2019 ;477 :672-675. Doi : 10.1097/CORR.00000000000689.
- Gerdhem P. CORR Insights[®]: Curve Progression in Adolescent Idiopathic Scoliosis Does Not Match Skeletal Growth. Clin Orthop Relat Res. 2018 ;476 :437-438. Doi : 10.1007/s11999.00000000000128.
- 7. Reinker KA. *CORR* Insights[®] : Preventing Fusion Mass Shift Avoids Postoperative Distal Curve Adding-on in Adolescent Idiopathic Scoliosis. **Clin Orthop Relat Res**. 2017 ;475 :1461-1462. Doi : 10.1007/s11999-017-5256-2.

- 8. Kwan K. Editorial : Advances in the Treatment of Early-Onset Scoliosis ? Journal of Orthopaedic Surgery. 2015 ;23(3):277.
- 9. Pang H, Chen QB, Xu JZ. Magnetically Controlled Growing Rods for Scoliosis in Children. Lancet 2012 ;380(9849) :1228. Doi : 10.1016/S0140-6736(12)61711-5.
- 10. Armoiry X, Abelin-Genevois K, Charroin C, Aulagner G, Cunin V. Magnetically Controlled Growing Rods for Scoliosis in Children. Lancet. 2012 ;380(9849) :1229. Doi : 10.1016/S0140-6736(12)61713-9.

G. Editorship and Editorial Board Membership

| 2023-2024 | Chief Editor, Insights and Innovations from AO Spine Asia Pacific. Adolescent Idiopathic Scoliosis. AO Foundaiton. |
|------------------|---|
| Jun 2022-Present | Co-editor, "Minimally Invasive Surgery on Spine", Frontier in Surgery |
| Apr 2023-Present | Co-editor, Special Issues on "Artficial Intellgence in Auto-Diagnosis and Clinical Applications", Bioengineering by Multidisciplinary Digital Publishing Institute (MDPI) |
| Apr 2023-Present | Co-editor, Virtual Special Issues 2023 on "Early Onset Scoliosis", Journal of Clinical Orthopedicis & Trauma (JCOT) |
| May 2022-Present | Specialty Chief Editor, Frontiers Editorials Board, Frontiers Pediatrics |
| Nov 2021-Present | Deputy Editor, Spine Deformity |
| 2019- Present | Editor, Hong Kong Medical Journal |
| 2017-Present | Senior Board Member/Editor for BMC Musculoskeletal disorders |
| 2017-Present | Editor for Asian Spine Journal |
| 2017-Present | Associate Editor, Acta Orthopaedica et Traumatological Turcica |
| 2016-Present | Corresponding Editor, Journal of Orthopaedic Surgery |

H. Medical Journal Reviewer Regular reviewer for the following journals:

- a. Clinical Orthopaedics and Related Research
- Bone and Joint Journal (Reviewer of the Month) <u>https://boneandjoint.org.uk/journal/BJJ/reviewer-</u> of-the-month
- c. European Spine Journal
- d. Spine
- e. The Spine Journal
- f. Global Spine Journal
- g. PLoS One
- h. World Neurosurgery
- i. Spine Deformity

- m. Journal of Orthopaedic Surgery
- n. BMC Musculoskeletal Disorders
- o. Acta Orthopaedica et Traumatological Turcica
- p. Asian Spine Journal
- q. Journal of Orthopaedic Translation
- r. Journal of Orthopaedic Surgery and esearch
- s. BMC Surgery
- t. BMJ open
- u. Scoliosis and Spinal Disorders

- j. Journal of Pediatric Orthopedics
- k. Hong Kong Medical Journal
- 1. Neurospine
- m. New England Journal of Medicine
- v. Orthopedic Surgery
- w. BMJ Case Reports
- x. The Lancet Regional Health
- n. The Lancet Child & Adolescent Health --- from Jul 2023

I. <u>Keynote/Plenary/Other Invited Lectures in International/Regional Conferences and</u> <u>Events (n=112)</u>

Plenary (n=5)

- 1. Bedside to Bench Exploration of Lumbar Developmental Spinal Stenosis. Yong Loo Lin School of Medicine. National University of Singapore. ---6 Mar 2023
- 2. Brace Treatment for Scoliosis. The Kenya Orthopaedic Conference --- 16 Feb 2023
- 3. 評估骨骼成熟度 Evaluation of Skeletal Maturity. 第十七屆北京協和醫院骨與關節外科技術發展論 壇. ---3 Sep 2022
- 4. Plenary Session 3 Current Recommendations on the Use of Magec Growing Rod. AO Spine Asia Pacific East Asia Conference. ---20 Aug 2022
- 5. AIS 病人生長潛能的評估及對支具的治療的意義。南京鼓樓醫院系列綫上會議第 17 期---脊柱畸 形高峰論壇 ---29 Dec 2022

Keynote (n=65)

- 1. The Usage of the Skeletal Maturity Assessment in the Management of AIS. ASSI APSS Global Outreach Session. India. --- 26 Nov 2023.
- 2. Problems and Salvage in Lateral Aces Surgeries. Minimally Invasive Spine Surgeons Association of Bharat (MISSABCON 2023)---2-5 Nov 2023.
- 3. School Screening in AIS. International Research Society of Spinal Deformities (IRSSD) Scientific Meeting 2023. ---30 Sep 2023.
- 4. Combined Anterior and Posterior Surgical Techniques for The Realignment of Adult Spinal Deformity. Korean Society of Spine Surgery (KSSS) Webinars. ---24 Sep 2023
- 5. Managing Spinal Deformities in Neurofibromatosis from Children to Adulthood 神经纤维瘤病患者从 儿童至成年期间的脊柱畸形管理. Skeletal Dysplasia and Neuromuscular Spinal Deformity Summit and Scoliosis Physical Therapy Workshop. The University of Hong Kong – Shenzhen Hospital. ---16 Sep 2023
- 6. Ideal Age of Index Surgical Treatment Is Anytime a Good Time? 58th Scoliosis Research Society (SRS) Annual Meeting. Seattle, Washington. ---6-9 Sep 2023
- 7. Utilizing Growth Parameters for Decision-Making in Brace Treatment. Spine Society Delhi Chapter Monthly Scientific Meeting. ---26 Aug 2023
- 8. Who is the Best Surgical Candidate for Lateral Approaches? Symposium 1: Spondylolisthesis. 10th

International MSS Scientific Congress. Ipoh, Malaysia. ---4-6 Aug 2023

- 9. Selective vs Non-Selective Thoracic Fusion in Lenke 1C and 2C Curves. Symposium 2: Adolescent Idiopathic Scoliosis. 10th International MSS Scientific Congress. Ipoh, Malaysia. ---4-6 Aug 2023
- The Importance of Skeletal Maturity Assessment among AIS Patients on Bracing. Symposium 6: Nonsurgical Treatment in Spine Surgery. 10th International MSS Scientific Congress. Ipoh, Malaysia. ---4-6 Aug 2023
- 11. Oblique Lumbar Interbody Fusion. APSS Basic Spine Webinar Series 2023 Programme. ---25 Jun 2023
- 12. Introduction to Vertebral body tethering (VBT) Surgical Treatment. International Scoliosis Awareness Day. The Hong Kong Polytechnic University. ---24 Jun 2023
- Update on Lateral Lumbar Interbody Fusion. Symposium Session: Minimally Invasive Approaches for Adult Spinal Deformity: Tips, Tricks, and Limitations. Global Spine Congress 2023. Prague, Czech Republic. --- 31 May-3 Jun 2023
- 14. Vertebral Body Tethering: Technique and Current Status. 第十八屆北京協和醫院骨與關節外科技術 發展大會暨第三屆早發性脊柱側凸學術論壇。---27 May 2023
- How to Select LIV: Should We Always Fused to Ilium to Avoid DJK? Symposium 6: How to Avoid Complications in Adult Spinal Deformity Surgery? APSS. Spineweek 2023. Melbourne Australia ---1-5 May 2023
- Traditional Growing Rod vs. Magnetically Controlled Growing Rod for Treatment of Early Onset Scoliosis. Kakuchi-Nisshin Seminar 5. The 52nd Annual Meeting of the Japanese Society for Spine Surgery and Related Research. ---15 Apr 2023
- 17. MIS Anterior Scoliosis Correction Combined All Prone. 30th International Meeting on Advanced Spine Techniques (IMAST). Dublin, Ireland. ---24 Mar 2023
- 18. Kyphoscoliosis in NF-1. The 17th Annual Conference of Alexandria Spine Group ---15-16 Mar 2023
- 19. Lateral Interbody Fusion for Kyphoscoliosis/Kyphosis. The 17th Annual Conference of Alexandria Spine Group ---15-16 Mar 2023
- 20. Scoliosis Research Society Worldwide Course. Debate Session: Growing Rods is Indicate Before 11 Years Old. ---11 Mar 2023
- 21. 脊肌萎缩症合并脊柱侧凸 Scoliosis Associated with Spinal Muscular Atrophy. 國際罕見病日-罕見病 伴發脊柱側凸 線上交流會議. ---28 Feb 2023
- 22. Return to Activities after Spinal Deformity Surgery. SRS Webinars for Professionals. ---14 Jan 2023
- 23. OLIF for deformities. Pakistan 35th Pakorthocon 2022. ---14 Jan 2023
- 24. Decompression Alone for low-grade spondylolisthesis. Pakistan 35th Pakorthocon 2022, ---14 Jan 2023
- 25. Current Status of Anterior Non-fusion Correction Technique for Thoracic Curve. 胸弯前路非融合矫形 技术的应用现状. Session 4 AIS: Focal Point of Surgical Treatment 手术治疗的焦点问题. AOSpine EOS-AIS Course. ---4 Dec 2022
- 26. Will Growing Rod be Replaced by MCGR? 生长棒手术:磁力生长棒可以替代传统生长棒吗? Session 2 EOS: Focal point of Surgical Treatment.手术治疗焦点问. AOSpine EOS-AIS Course. ---4

Dec 2022

- 27. Lateral Approaches in Treating Degenerative Spine Diseases. 22nd Congress of The Asia Pacific Orthopaedic Association. ---25 Nov 2022
- Treatment Options in EOS and JIS. 22nd Congress of The Asia Pacific Orthopaedic Association. ---24 Nov 2022
- 29. New Horizons in the Non-Op Care of Children and Adults with Scoliosis: Expanding the Use of Bracing and PSSE. SRS Webinars for Professionals. ---5 Nov 2022
- 30. Spine Symposium Management of Early Post-op Spine Infection. SICOT 42nd Orthopaedic World Congress. ---30 Sep 2022
- 31. Spine Symposium Complex Problems in Degenerative Spine: Only Decompression for the Lumbar Deformity with Stenosis. SICOT 42nd Orthopaedic World Congress. ---29 Sep 2022
- 32. Symposium 1: Degenerative Lumbar Spine: 1-2 Levels Grade 1 Spondylolisthesis Who Can Avoid Fusion? AO Spine Asia Pacific East Asia Conference. ---20 Aug 2022
- 33. Medtronic OLIF Webinar Surgical Technique on OLIF25: How to do. ---22 Jul 2022
- 34. Magnetic Growth Rods Current State, APSS Annual Meeting 2022. ---11 Jun 2022
- Decompression Surgery is the Best Option. Spine Session Degenerative Lumbar Spinal Stenosis Symposium. The 51st Malaysian Orthopaedic Association (MOA) Annual Scientific Meeting 2022. ---9 Jun 2022
- 36. 骨骼發育不良疾病大灣區骨外科高峰論壇——脊柱側彎分論壇:神經纖維瘤患者脊柱後凸問題. The University of Hong Kong - Shenzhen Hospital. ---14 May 2022
- 37. Magnetically Controlled Growth Rods (MCGR); Session II Surgery and Implants: Why, When, How: All India Institute of Medical Sciences (AIIMS) International Spine Deformity. ---15 Apr 2022
- Conducting Research in EOS: Unsolved Problems and Shifting of Goalposts; Session IV Current Trends and Future Directions: All India Institute of Medical Sciences (AIIMS) International Spine Deformity. ---15 Apr 2022
- 39. Magnetically Controlled Growing Rod Surgery Background, Tips, and Complications: AO Spine in-League Advanced Webinar – Early-onset Scoliosis & Solutions. ---25 Mar 2022
- 40. Single Position of Lateral Lumbar Surgery. Fall in Love with the Lumbar Spine, 2021 Season Finale, Lumbar Spine Research Group of Spinal Cord Professional Committee of China Rehabilitation Medical Organization in China. ---19 Dec 2021
- 41. In Patients with Osteoporosis Receiving TLIF In L5S1: I Will Go Down to Ilium: AOSpine Advanced Seminar Degenerative Lumbar Deformity, Degenerative Cervical Spine. Taipei, Taiwan. ---24 Oct 2021
- 42. Hong Kong Experience in MCGR: The Egyptian Scoliosis Society in Collaboration with Saudi Spine Society. ---30 Jul 2021
- 43. The Importance of Plain Radiography in Spine Surgery: 21st Asia Pacific Orthopaedic Association Congress, Kuala Lumpur, Malaysia . ---30 Jul 2021
- 44. Clinical Implications of Lumbar Developmental Spinal Stenosis: 50th Malaysia Orthopaedic Association Annual General Meeting / Annual Scientific Meeting 2021, Virtual. ---22 Jun 2021

- 45. The Direction of Clinical Research Regarding Adolescent Idiopathic Scoliosis in Asian Countries: What Can We Do? & What Should We Prepare? 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan. ---11 Jun 2021
- 46. Post-irradiation Upper Cervical Spine Complications: 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society (APSS-APPOS 2021) Kobe, Japan. ---10 Jun 2021
- 47. Kyphoscoliosis in Neurofibromatosis 神经纤维瘤患者脊柱后凸问题; Overgrowth and Tumor-Like Conditions: Greater Bay Area Skeletal Dysplasia Summit from Orthopaedic Perspectives 骨骼发育 不良疾病大湾区骨外科高峰论坛 (Lecture on May 8, Case Discussion on May 9, 2021) ---8 & 9 May 2021
- 48. Scoliosis Research Society Worldwide Courses: Lateral Approach for ASD. ---25 Nov 2020
- Pontifical Catholic University Parana State Curirtiba Brazil: Webinar on Scoliosis = Distal Level for Thoracic Curves / Strategies for High Degree Curves. Fusion Level Selection in AIS – Role of the Fulcrum-bending Radiograph. ---15 Jun 2020
- 50. AOSpine Webinar: From the Frontline: Web-Meeting: Navigating The COVID-19 Pandemic From Crisis to The Future (Results From The AOSpine Research Initiative) ---9 May 2020
- AOSpine Asia Pacific Advanced Webinar Decision Making in Adolescent Idiopathic Scoliosis ---25 Nov 2019
- 52. Growth and Maturation: Clinical Relevance to Scoliosis. Korean Spinal Deformity Symposium, Seoul, Korea. ---23-24 Aug 2019
- 53. Magnetically Controlled Growing Rods: What We Learned Over the Past Decade. Korean Spinal Deformity Symposium, Seoul, Korea. ---23-24 Aug 2019
- 54. C1-C2 Screw Fixation for Upper Cervical Fracture, Symposium: Trauma Surgical Treatment of Spine Fractures. 12th Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 55. Meet the Masters: Cervical Spine 1. 12th Combined Meeting of the Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 56. International Seminar What Is the Best Distraction Frequency for Magnetically Controlled Growing Rods? – Insight from A Multi-Center Prospective Study. The 52nd Annual Meeting of the Japanese Scoliosis Society. ---2-3 Nov 2018
- 57. Predicting Skeletal Growth Potential in Adolescent Idiopathic Scoliosis. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---8 Jun 2018
- 58. Developmental Lumbar Spinal Stenosis: What We Know So Far. Asia Pacific Spine Society Annual Meeting in Taiwan 2018. ---9 Jun 2018
- 59. Mismatch Between Peak Growth and Curve Progression: Impact Upon Adolescent Idiopathic Scoliosis Management. The 91st Annual Meeting of The Japanese Orthopaedic Association. ---24 May 2018
- 60. Assessment of Skeletal Maturity: Current Concepts in Spine Deformity SRS Course. Shenzhen, China . ---13-15 Oct 2017
- 61. Cantilever & Differential Rod Contouring (Lunch Symposium: Scoliosis Correction Techniques in Adolescent Idiopathic Scoliosis. 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific

Paediatric Orthopaedics Society (APSS-APPOS). 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS). Pre-Meeting Course of International Society for The Advancement of Spine Surgery) ---1 Sep 2017

- 62. Clinical Indications and Considerations (Lunch Symposium: MAGEC Rods Magnetic Elongation of The Spine; 11th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedics Society (APSS-APPOS). 8th Biennial Meeting of The International Federation of Paediatric Orthopaedic Societies (IFPOS). Pre-Meeting Course of International Society for The Advancement of Spine Surgery) ---2 Sep 2017
- 63. Lumbar Spinal Stenosis and Disc Herniation. Lumbar Spine Surgery Education 2017 Organized by The Hong Kong College of Perioperative Nursing ---1 May 2017
- 64. 3D Phenotyping. International Consortium for Scoliosis Genetics, ICSG. Spineweek 2016. Singapore. ---19 May 2016
- 65. Pharmacological Approach to Cord Preservation Dream or Reality? AOSpine Program Cervical Spine Trauma. 36th SICOT Orthopaedic World Congress, Guangzhou, China ---17 Sep 2015

Other Invited Lectures (n=42)

- Session 4: Anterior and Lateral Approach: Thoracic and Lumbar Spine Complications of Anterior and Lateral Surgery: How to Deal with Them. Spine Deformity Solutions: A Hands-On Course. Scoliosis Research Society. ---13-15 Oct 2023
- 2. Understanding of Low Back Pain and Treatment Options. AIA International Limited. ---8 Mar 2023
- Cadaveric Workshop (J&J, Medtronic). HA Central Commissioned Training Program (CCTP) 2022/23: New Technologies in Spinal Surgery ---10-12 Feb 2023
- 4. Single Lateral Position Surgery (Case Dicussion). HA Central Commissioned Training Program (CCTP) 2022/23: New Technologies in Spinal Surgery ---10-12 Feb 2023
- 5. Cadaveric Workshop (Globus, NuVasive). HA Central Commissioned Training Program (CCTP) 2022/23 : New Technologies in Spinal Surgery ---10-12 Feb 2023
- Debate Series: Management Dilemmas in Spine Surgery. Interbody Fusion in the Treatment of Degenerative Spondylolisthesis: When to Go Anterior or Posterior. HKU Webinar Series on Orthopaedics Controversies. ---3 Dec 2022
- 7. Anterior Approach to Thoraco-Lumbar Spine: Anatomy, Complications. 3rd APSS-HKU-HKOA Spine Chapter Basic Spine Course 2022. ---19 Nov 2022
- Adult Spinal Deformity. 3rd APSS-HKU-HKOA Spine Chapter Basic Spine Course 2022. ---19 Nov 2022
- 9. OLIF/MIS TLIF Cadaver Course: OLIF Indication/ How to Choose Suitable Case for OLIF & Surgical Technique. Medtronic, HKOA Spine Chapter. ---12 Nov 2022
- 10. OLIF/MIS TLIF Cadaver Course: Hands-on Workshop. Medtronic, HKOA Spine Chapter. ---12 Nov 2022
- Assessment of Skeletal Maturity and Growth in Adolescent Idiopathic Scoliosis and its Clinical Application. Spine Research Unit, Department of Orthopaedic Surgery, University of Malaya. ---27 Sep 2022

- 12. Symposium 9: Recent Advancement in Science and Technologies in Spine Surgery. AO Spine Asia Pacific East Asia Conference. Cheung JPY, Han ZM, Wong HK. ---21 Aug 2022
- 13. Symposium 5: Fellowship between AO Spine East Asia and Singapore Spine Society Hong Kong Approach to Spine Surgery During COVID. AO Spine Asia Pacific East Asia Conference. ---20 Aug 2022
- 14. AO Spine Advanced Level Anatomical Specimen Course How I Do It: Correction Techniques for Adult Scoliosis. ---19 Aug 2022
- AO Spine Advanced Level Anatomical Specimen Course Minimally Invasive and Open Techniques for the Treatment of Adult Spinal Deformity : Cadaveric Workshop - Iliac and Pedicle Screws. ---19 Aug 2022
- AO Spine Advanced Level Anatomical Specimen Course Minimally Invasive and Open Techniques for the Treatment of Adult Spinal Deformity : Cadaveric Workshop - Ponte, T12 VCR, L3 PSO. ---19 Aug 2022
- 17. AO Spine Advanced Level Anatomical Specimen Course Minimally Invasive and Open Techniques for the Treatment of Adult Spinal Deformity : Lateral ALIF 5. ---18 Aug 2022
- 18. AO Spine Advanced Level Anatomical Specimen Course Minimally Invasive and Open Techniques for the Treatment of Adult Spinal Deformity : Cadaveric Workshop OLIF. ---18 Aug 2022
- 19. Medtronic OLIF Discussion Webinar. ---25 Apr 2022
- 20. Decision Making in Management of Scoliosis Bracing Versus Surgery; APSS Medtronic Webinar, Asia Pacific Spine Society. ---20 Feb 2022
- 21. APSS DePuy Synthes Spine Virtual Fellowship Program 2021: Lumbar Spine Surgery Oblique Lumbar Interbody Fusion (OLIF). ---2 Dec 2021
- 22. The Antepsoas Approach to the Lumbosacral Spine. Combined 60th Anniversary Scientific Meeting and 17th Hong Kong International Orthopaedic Forum. ---27 Nov 2021
- 23. Single Position Surgery: Treatment of Degenerative Conditions for L1-S1 In the Lateral Position. Inexus CPD, Nuvasive at The University of Hong Kong. ---16, 18, 20 Nov 2021
- 24. International Case Discussion AIS. The 55th Annual Meeting of the Japanese Scoliosis Society. --6 Nov 2021
- 25. Population-Based Cohort Study Shows Increased Radicular Leg Pain and Disability with Lumbar Developmental Spinal Stenosis: The 65th Annual Congress of The Korean Orthopaedic Association (KOA) 2021. ---14-16 Oct 2021
- 26. C1/2 Fixation Techniques. APSS-HKU Spine Course. ---11 Sep 2021
- 27. Posterior Spinal Fusion/Bone Graft, Harvesting Techniques. APSS-HKU Spine Course. ---11 Sep 2021
- Frontiers in Medical and Health Sciences Education 2020: Medical Education Disrupted Negativity or Creativity. ---27-28 Nov 2020
- 29. TB Spine Department of Paediatrics Grand Round. --- 5 Nov 2020
- 30. NuVasive MAGEC Meeting 2020: Faculty (MAGEC Surgical Technique, Live Surgery, Intraop and

Postop Complications and Distraction Techniques) ---7-8 Jan 2020

- 31. How to Be A Good Reviewer? AOSpine Advanced Level Anatomical Specimen Course in Lumbar Minimally Invasive Spine Surgery. ---28 Sep 2019
- 32. C1/2 Fixation Techniques. APSS-HKU Basic Spine Course 2019. ---25 May 2019
- Developmental Lumbar Spinal Stenosis From Bedside to Bench. The 15th Hong Kong International Orthopaedic Forum. ---22 Apr 2018
- 34. Role of Conservative Management in Adult Spinal Deformity. 2018 Lumbar Spine Surgery Workshop: Lectures & Hands-On Cadaveric Course. ---20 Jan 2018
- 35. Long Term Results in Adult Spinal Deformity Treatment. 2018 Lumbar Spine Surgery Workshop: Lectures & Hands-On Cadaveric Course. ---20 Jan 2018
- 36. Spondylolysis in Dancers and Lifters Should We Rehabilitate or Operated on Them? The 14th Hong Kong International Orthopaedic Forum ---1 Apr 2017
- How to Obtain Iliac Crest Bone Graft and What is a Proper Fusion? APSS Basic Spine Course 2017. ---1 Jan 2017
- 38. Complications of Cervical Spine Surgery How to Avoid Them? APSS Basic Spine Course 2017
 --1 Jan 2017
- 39. Updates in Spine Infection. The 13th Hong Kong International Orthopaedic Forum. ---23 Apr 2016
- 40. Magnetically Controlled Growing Rods The Hong Kong Experience and Panel Discussion" Panel Discussion on Early Onset Scoliosis & Answers to Your MAGEC® Questions from International Experts, Ellipse Technologies Inc. The Marquette Hotel. 50th Annual Meeting & Course of The Scoliosis Research Society, Minneapolis, Minnesota, USA. ---2 Oct 2015
- 41. Developmental Spinal Stenosis: GWAS Study on A Southern Chinese Population. British Orthopaedic Association Congress 2014. ---10 Jan 2014
- 42. Verifying and Defining Developmental Spinal Stenosis: An MRI Based Study. 2013 New Zealand Orthopaedic Association Annual Scientific Meeting. ---10 Jan 2013

J. <u>Research Projects and Grants</u>

Competitive Grant Total: **HK\$49,190,561.23** Principal Investigator: **HK\$26,080,586.5** Additional Funds (Awards/Donations/Clinical Trials): **HK\$1,117,363.73**

External Competitive Grants (Principal Investigator) (HK\$25,078,536.5)

- 1. General Research Fund (GRF) : Fostering Collaborative Knowledge Construction in Blended Problembased Learning (bPBL): A Mixed-Methods Study (**HK**\$547,594)
- 2. ITF Technology Start-up Support Scheme for Universities (TSSSU) at HKU FY2023-24: Metasurgical Technology Limited (HKU Ref: O-23020) (HK\$200,000)
- 3. Impact Case Development Fund for Research Assessment Exercise (RAE) 27/7/2022-28/2/2024: Intelligent Orthopaedics Platform: AlignPro (HK\$50,000)
- 4. Health and Medical Research Fund (HMRF) 1/1/2022-31/12/2024: Randomized, Controlled, Single-

blinded Trial to Evaluate the Efficacy and Safety of Intra-wound Vancomycin Powder as Add-on Prophylactic Intraoperative Antibiotic for High-risk Open Posterior Spinal Surgery (Ref# 08192016) (HK\$1,492,928.00)

- 2021 Guangdong Natural Science Fund General Programme 2021 年度廣東省自然科學基金 面上項目: 具有临床指导意义的可量化微结构对松质骨力学性能影响的全新力学 参数研究: 有限元分析及其生物力学试验验证 (#2114050001506) (RMB 100000/HK\$120,668.00)
- Midstream Research Programme for Universities (MRP) by the Innovation and Technology Fund 8/2021-07/2024: A Non-radiation Artificial Intelligence Spine Deformity Diagnosis System (MRP/038/20X) (HK\$7,640,738.00)
- Innovation and technology fund (ITF Tier 3) 9/2019-3/2021: A Novel Mobile Application Enabling Automated Body Contour Comparison and Spine Alignment Examination Using Artificial Intelligence (ITS/404/18) (HK\$1,374,774.40)
- RGC Research Impact Fund 2019-2024: Early Detection of Progressive Adolescent Idiopathic Scoliosis and Optimization for Non-surgical Treatments using Novel 3D Ultrasound Imaging (Ref# R5017-18F) (HK\$8,400,000)
- 9. Health and Medical Research Fund (HMRF) 2018-2021: A Randomized Controlled Trial Comparing Gradual and Immediate Brace Weaning for Clinical Management of Adolescent Idiopathic Scoliosis (ref#: 05161356) (HK\$947,024)
- 10. S.K.Yee Medical Foundation Grant 2018-2020: Teriparatide For Improving Lumbar Spinal Instrumented Fusion Outcomes in the Elderly (ref#: 2171223) (HK\$1,772,480)
- 11. AOSpine Asia Pacific Regional Research Project Grant 2018-2020: Predictive Factors for Successful Conservative Management to Avoid Surgery in Adult Deformity (CHF 30000/**HK\$240,272.1**)
- Health and Medical Research Fund (HMRF) 2016-2018: Are Rigid Cervical Collars Necessary for Patients Undergoing Open-Door Laminoplasty And Titanium Arch Plates for Cervical Myelopathy? – A Randomized Pilot Clinical Trial (ref#:13142371) (HK\$100,000)
- 13. Health and Medical Research Fund (HMRF) 2016-2017: Prediction Classifier Model for Management of Adolescent Idiopathic Scoliosis (ref#:03142306) (HK\$100,000)
- 14. General Research Fund (GRF) 2016-2021: Defining Indications for Managing Scoliosis Using Comparative Outcomes and Cost Analysis (ref#:17156416) (HK\$831,585)
- 15. General Research Fund (GRF) 2014-2019: Modic Changes of The Lumbar Spine (ref#17117814) (HK\$970,875)
- 16. Scoliosis Research Society (SRS) Grant 2016-2019: 3D Modeling for Magnetically Controlled Growing Rods (HK\$117,000)
- 17. AOSpine East Asia Grant 2017-2019: A Quantitative Study of Gait and Stance Characteristics for Patients with Cervical Spondylotic Myelopathy (HK\$57,050)
- 18. AOSpine East Asia Grant 2017-2019: The Pathogenesis of Ligamentum Flavum Hypertrophy in Developmental Spinal Stenosis (HK\$54,053)
- 19. AOSpine East Asia Grant 2014-2016: Characteristics of Ligamentum Flavum Hypertrophy in Developmental Spinal Stenosis (HK\$61,495)

External Competitive Grants (Co-Investigator) (HK\$21,506,980)

- 1. Caritas Institutional Strategic Grant 1/8/2023-31/7/2026: Impact of Social Design Approach for Scoliosis Brace to Treat Spinal Deformities. (HKD875,000)
- 2. Health and Medical Research Fund (HMRF) 2023-25: Effectiveness of Acceptance and Commitment Therapy Versus Active Controls in Improving Psychological Functions of Parents and Children with Adolescent Idiopathic Scoliosis. A Randomized Controlled Trial. (HK\$1,490,216)
- 3. Health and Medical Research Fund (HMRF) 2023-24: Development and Evaluation of An Artificial Intellegence-Assisted Scoliosis Screening and Management System (AI-SSMS) For Reducing Unnecessary Referrals and Healthcare Costs. (Ref#: 20211701) (HK\$1,496,495)
- 4. AO Spine National Research Grant 2022-23: Analysis of Trabecular Microstructure in Clinical CT Images Based on Learning. (CHF5,000 ~**HKD40,875**)
- 5. AO Spine National Research Grant 2022-23: A Novel AI Pipeline for Automatic 3D Spine Surgical Planning with Quantitative Analysis. (CHF5,000 ~**HKD40,875**)
- 6. AO Spine National Research Grant 2022-23: Effects of Scoliosis Specific Exercises in Changing Electromyographic Discrepancy of Paraspinal Muscles and Vertebral Monography with Adolescent Idiopathic Scoliosis. (CHF5,000 ~**HKD40,875**)
- 7. Innovation and Technology Fund (ITF) 2022-25: A Radiation-Free Artificial Intelligence Spine Surgery Planning System with Biomechanical Analysis of Fixation Stability (PRP/078/21FX) (HK\$4,059,811)
- Health and Medical Research Fund (HMRF) 2020-2022: Use of Spinescan3d In Scoliosis Clinics to Enhance Clinic Efficiency, Reduce Radiation Risks and Health Care Costs (Ref#: 07182466) (HK\$1,253,712)
- 9. General Research Fund (GRF) 2020-2021: Inflammation Induced Cell Dedifferentiation Program in Vertebral Joint Degeneration (Ref#:17121619) (HK\$919,972)
- 10. General Research Fund (GRF) 2020-2022: Genetic Study of Adolescent Idiopathic Scoliosis in Chinese And Functional Analysis of a Disease Variant (Ref#:17114519) (HK\$892,915)
- General Research Fund (GRF) 2020-2022: Effectiveness of Routine Measurement of Health-Related Quality of Life in Improving the Outcomes of Patients with Musculoskeletal Problems – A Randomized Controlled Trial (Ref #: 17100119) (HK\$1,069,198)
- 12. Health and Medical Research Fund (HMRF) 2019-2021: Identifying the Genetic Factors Underlying Congenital Scoliosis in Hong Kong (Ref#06171406) (**HK\$1,499,752**)
- 13. General Research Fund (GRF) 2019-2020: Elicitation of Health State Utilities for Paediatric Populations from The General Public (Ref#:17119518) (HK\$968,347)
- 14. Health and Medical Research Fund (HMRF) 2018-2020: The Clinical Safety and Efficacy of Zoledronic Acid for Treatment of Chronic Low Back Pain Due to Modic Changes: A Parallel, Double-Blinded, Randomized Controlled Trial (Ref #05162286) (HK\$1,195,092)
- Health and Medical Research Fund (HMRF) 2018-2020: The Effectiveness of Prehabilitation For Patients Undergoing Lumbar Spinal Stenosis Surgery – A Randomized Controlled Trial (Ref#05160996) (HK\$636,568)
- 16. RGC Direct Allocation 2017 For 1/2018-12/2019 (Code: G-YBV3): Development Of 3D Spacer Fabrics

to Prevent Surgical Pressure Ulcers (HK\$210,000)

- 17. Innovation and Technology Fund (ITF Tier 3) 7/2017-12/2018: Ergonomic Brace Wear for Adolescent Idiopathic Scoliosis (ITS/297/16) (HK\$1,399,999)
- 18. Innovation and Technology Support Programme (ITF Tier 3) 2017-2019: A Novel Measurement System of Hand Function (ITS/148/17) (HK\$1,397,574)
- 19. S.K. Yee Medical Foundation 2016-2019: Provision of Diffusion Tensor Imaging for Cervical Spondylotic Myelopathy Diagnosis in Elderly (Ref#:2161216) (HK\$770,800)
- 20. Innovation and Technology Support Programme (ITF Tier 3) 2015-2017: Development of A Wearable Transcranial Dc-Stimulator for Chronic Pain Management (ITS/157/15) (HK\$1,248,904)

Internal Competitive Grants (Principal Investigator) (HK\$1,002,050)

- 1. Seed Fund for Translational and Applied Research 2022-23: Artificial Intelligence Powered Registration of Volumetric Medical Images Acquired from Different Medical Systems Enabling Fast and Accurate Surgical Planning (ref#202111160033) (**HK\$150,000**)
- Seed Fund for Basic Research 2022-24: Utility of The Proximal Humerus Ossification System (PHOS) To Guide Brace Weaning in Patients with Adolescent Idiopathic Scoliosis (Ref#202111159028) (HK\$102,500)
- 3. Seed Fund for Basic Research 2020-2022: Defining Indications and Outcomes of Brace Treatment for Adolescent Idiopathic Scoliosis (Ref#201910159031) (HK\$83,200)
- 4. Seed Fund for Translational and Applied Research 2020-2021: A Novel and Fully Automated System of Cobb Angle Detection Using Deep Learning: Improving Diagnosis and Monitoring of Adolescent Idiopathic Scoliosis (ref#201910160007) (**HK\$150,000**)
- 5. Seed Fund for Basic Research 2018-2019: Differential Psychometric Properties Of EQ-5D-5L and SF-6D Utility Measures in Low Back Pain (Ref#201711159003) (HK\$79,320)
- 6. Seed Fund for Translational and Applied Research 2018-2019: Development of an Automated Image Processing Tool for Spinal Canal Measurements (ref#201711160001) (HK\$138,980)
- 7. Seed Fund for Basic Research 2017-2019: Biomechanical Stability of Cortical Versus Pedicle Screws in The Lumbar Spine with Relevance of Bone Density (Ref#:201611159073) (HK\$55,400)
- 8. Seed Fund for Basic Research 2016-2018: Microarray Analysis for Ligamentum Flavum In Lumbar Developmental Spinal Stenosis (Ref#:201511159171) (HK\$34,490)
- 9. Seed Fund for Basic Research 2015-2017: Rat Model for Developmental Lumbar Spinal Stenosis (Ref#:201411159078) (HK\$35,400)
- 10. Small Project Funding 2014-2016: Genetic Predisposition for MRI Diagnosed Developmental Spinal Stenosis (Ref#:201309176137) (HK\$72,760)
- 11. Seed Fund for Translational and Applied Research 2013-2015: Low Cost Antimicrobial Surface (Ref#:201209160012) (HK\$100,000)

Internal Competitive Grants (Co-investigator) (HK\$485,631)

- 1. Seed Fund for Basic Research 29/6/2018-28/6/2020: Functional Analysis of a Human Familial Adolescent Idiopathic Scoliosis (AIS) Mutation in A Mouse Model (Ref#:201711159121) (HK\$47,590)
- 2. Seed Fund for Basic Research 2017-2019: Use of Euroqol 5-Dimension Youth Version (EQ-5D-Y) Questionnaire in A Patient Population in Hong Kong (Ref#201711159001) (HK\$63,460)
- 3. Seed Fund for Basic Research 2017-2019: The Role of The UTE Disc Sign (UDS) On MRI In Spine Degeneration and Low Back Pain: A New Imaging Biomarker (**HK\$39,901**)
- 4. Seed Fund for Basic Research 2017-2019: Genetic Studies of Congenital Scoliosis (Ref#:201611159090) (HK\$44,320)
- 5. Seed Fund for Basic Research 2017-2019: Intraoperative Electrophysiological Signals for Localization and For Determining the Pathogenesis of Iatrogenic Spinal Cord Injuries (Ref#:201611159084) (HK\$55,400)
- 6. Seed Fund for Basic Research 2016-2018: The Safety and Efficacy of Zoledronic Acid for The Treatment of Chronic Low Back Pain Due to Modic Changes: A Parallel, Double-Blinded, Randomized Controlled Trial (Ref#:201511159304) (HK\$57,480)
- Seed Fund for Basic Research 2016-2018: A Prediction Model Based on Diffusion Tensor Imaging for The Prognosis of Surgical Treatment of Cervical Spondylotic Myelopathy (Ref#201511159037) (HK\$57,480)
- 8. Research Output Prize (HK\$120,000)

Source from Awards, Donations and Clinical Trials (HK\$1,117,363.73)

- 1. Three-dimensional Analysis of Scoliosis for Curve Prediction and Identification of The Genetic Origins of Abnormal Spinal Morphology. The Society for the Relief of Disabled Children. (HK\$1,043,074.00)
- 2. Funding Support from Pharmaceutical Industry: QUINTILES Asia and Latin America Fracture Observational Study (ALAFOS) (ref#200003620.065325.21000.400.01) (HK\$17,390.70)
- 3. From Research Awards (HK\$12,579.03)
- 4. Seed Fund for Basic Research 2017-2019: Genetic Studies of Congenital Scoliosis (Ref#:201611159090) (HK\$44,320)

Collaborator

- 1. Theme -based research (TRS) scheme: Functional analyses of how genomic variation affects personal risk for degenerative skeletal disorders (T12-708/12N) Coordinator: Professor KSE Cheah
- 2. Area of Excellence (AoE) scheme: Developmental genomics and skeletal research Coordinator: Professor KSE Cheah

K. Evidence of Excellent Applied Research

1. Novel Technology in The Treatment of Early Onset Scoliosis

Dr. Cheung is closely involved in the development, optimization, and demonstration of the safety and

efficacy of the magnetically-controlled growing rod (MCGR) for early onset scoliosis to obviate the need for multiple surgeries. The MCGR allows for non-invasive, radiation-free distractions at regular intervals to avoid the traditional method of open surgery for distractions under general anesthesia every six months. The major underpinning research was provided by Dr. Cheung and the spine division at HKU. The team implanted the first MCGR in 2009 and subsequently published the first case series on its safety and efficacy in the Lancet in 2012. This led to a global change of practice away from traditional growing rods that require reoperation every six months. The MCGR underwent FDA approval in 2014 and now is widely adopted. Dr. Cheung has spearheaded the research (see below) on optimal treatment protocols, complications related to the technique of rod distraction, use of ultrasound for monitoring of distractions, recommendations of optimal frequency and amount of distraction per session, and long-term follow-up. Novel complications of the device such as metallosis and law of diminishing returns have also been reported by Dr. Cheung and has led to guidelines for distraction technique and workflow. The use of ultrasound is of note as it provides radiation-free monitoring of the MCGR distraction. The technique is now widely adopted by many centers internationally. Early experience of the device led to feedback and discussion with Ellipse Technologies Inc. to improve and optimize subsequent versions of the MCGR. There was an increase in implant sales with increased revenue from USD 25M in 2014 to USD 40M in 2015. The success of the device has led to the acquisition of Ellipse Technologies Inc. by NuVasive Inc. for USD 380M in 2016. The importance of clinical translation and experience from Dr. Cheung's unit has led to traditional growing rods to become obsolete in most countries. Guidelines from the National Institute of Health and Care Excellence (NICE) in the UK in 2014, Centers for Medicare and Medicaid Services in US, and white papers from the Scoliosis Research Society and Growing Spine Study Group have included the MCGR based on our experiences and recommendations. This KE evidence is clearly evident as a successful impact case study with international significant standing in the Research Assessment Exercise in 2020.

Underpinning Research of This Theme:

- Cheung PWH, Wong CKH, Sadiang-abay JT, Lau ST, Cheung JPY*. Longitudinal Comparison of Direct Medical Cost, Radiological and Health-related Quality of Life Treatment Outcomes between Traditional Growing Rods and Magnetically Controlled Growing Rods from Preoperative to Maturity. BMC Musculoskeletal Disorders. 23:791. Aug 2022. Doi: 10.1186/s12891-022-05750-7
- Cheung JPY*, Bow C, Cheung KMC. "Law of Temporary Diminishing Gains": The Phenomenon of Temporary Diminished Distraction Lengths with Magnetically Controlled Growing Rods that is Reverted with Rod Exchange. Global Spine J. 2022;12(2):221-228. Doi: 10.1177/2192568220948475.
- Zhang T, Sze KY, Peng ZW, Cheung KMC, Lui YF, Wong YW, Kwan KYH, Cheung JPY*. Systematic investigation of metallosis associated with magnetically controlled growing rod implantation for early-onset scoliosis. Bone Joint J. 2020;102-B(10):1375-1383. Doi: 10.1302/0301-620X.102B10.BJJ-2020-0842.R1
- 4. Obid P, Yiu K, Cheung K, Kwan K, Ruf M, **Cheung JPY***. Magnetically controlled growing rods in early onset scoliosis : radiological results, outcome, and complications in a series of 22 patients. Arch Orthop Trauma Surg. 2021;141(7):1163-1174. Doi: 10.1007/s00402-020-03518-z.
- Cheung JPY*, Cheung PWH, Cheung KMC. The effect of magnetically controlled growing rods on threedimensional changes in deformity correction. Spine Deformity. 2020;8(3):537-546. Doi:10.1007/s43390-020-00055-y
- Cheung JPY*, Zhang T, Bow C, Kwan K, Sze KY, Cheung KMC. The crooked rod sign : a new radiological sign to detect deformed threads in the distraction mechanism of magnetically controlled growing rods and a mode of distraction failure. Spine. 2020 ;45(6) :E346-E351. Doi: 10.1097/BRS.00000000003268.
- Cheung JPY*, Yiu K, Kwan K, Cheung KMC. Mean 6-year follow-up of magnetically controlled growing rod patients with early onset scoliosis : A glimpse of what happens to graduates. Neurosurgery. 2019 ;84(5) : 1112-1123. Doi : 10.1093/neuros/nyy270.
- Obid P, Yiu K, Cheung KMC, Kwan K, Ruf M, Cheung JPY*, Reliability of rod lengthening, thoracic and spino-pelvic measurements on biplanar stereoradiography in patients treated with magnetically controlled growing rods. Spine. 2018; 43(22):1579-1585. Doi: 10.1097/BRS.00000000002671.
- 9. **Cheung JPY***, Yiu KKL, Samartzis D, Kwan K, Tan BB, Cheung KM. Rod lengthening with the magnetically controlled growing rod : factors influencing rod slippage and reduced gains during distractions. Spine. 2018;43(7) :E399-E405. Doi :10.1097/BRS.0000000002358.
- 10. Kwan KYH, Alanay A, Yazici M, Demirkiran G, Helenius I, Nnadi C, Ferguson J, Akbarnia BA, **Cheung JPY**, Cheung KMC. Unplanned reoperations in magnetically controlled growing rod surgery for early onset scoliosis

with a minimum of two-year follow-up. Spine. 2017;42(24):E1410-E1414. Doi :10.1097/BRS.00000000002297.

- 11. Wong CKH, **Cheung JPY***, Cheung PWH, Lam CLK, Cheung KMC. Traditional growing rod versus magnetically controlled growing rod for treatment of early onset scoliosis : cost analysis from implantation till skeletal maturity. J Orthop Surg. 2017 ;25(2) :2309499017705022. Doi :10.1177/2309499017705022.
- 12. Cheung JPY*, Yiu KK, Bow C, Cheung PW, Samartzis D, Cheung KM. Learning curve in monitoring magnetically controlled growing rod distractions with ultrasound. Spine. 2017;42(17):1289-1294. Doi:10.1097/BRS.000000000002114.
- 13. Cheung JPY*, Bow C, Samartzis D, Ganal-Antonio AK, Cheung KMC. Clinical utility of ultrasound to prospectively monitor distraction of magnetically controlled growing rods. The Spine Journal. 2016;16(2):204-209. Doi:10.1016/j.spinee.2015.10.044.
- 14. **Cheung JPY***, Bow C, Samartzis D, Kwan K, Cheung KMC. Frequent small distractions with a magnetically controlled growing rod for early-onset scoliosis and avoidance of the law of diminishing returns. J Orthop Surg. 2016 ;24(3) :332-337. Doi : 10.1177/1602400312.
- 15. Cheung JPY, Samartzis D, Cheung KMC. A novel approach to gradual correction of severe spinal deformity in a pediatric patient using the magnetically-controlled growing rod. The Spine Journal. 2014 ;14(7) :e1-e7. pii: S1529-9430(14)00123-5. Doi: 10.1016/j.spinee.2014.01.046.
- 16. Cheung KMC, Cheung JPY, Samartzis D, Mak KC, Wong YW, Cheung WY, Akbarnia BA, Luk KDK. Magnetically controlled growing rods for severe spinal curvature in young children : a prospective case series. Lancet. 2012 May 26 ;379(9830) :1967-74.

*Corresponding authorship

2. AI-driven Complete Scoliosis Treatment Platform

Dr. Cheung has technologies developed to have significant commercial value in addition to scientific merits. He has co-founded CoNova Medical Technology Limited and Metasurgical Technology Limited to adapt his team's research findings to clinical use. He is currently serving as the Chief Clinical Officer of these companies. Two major devices under these companies: AlignPro(Gold Medal from IGED) and OI-GPS (Silver Medal from IGED) are backed scientifically by publications (see below) including the Lancet eClinicalMedicine and IEEE EMBC, and are currently launched as clinical trials. These two products won the Gold and Silver Medals from the Special Edition 2022 Inventions Geneva Evaluation Days (IGED) respectively. The AlignPro allows for AI detection of scoliosis severity on back images and auto-annotations of spine radiographs, and the OI-GPS allows for AI-powered simulation with radiation-free tracking and device monitoring for post-operative scoliosis correction. The latter was developed to allow for tracking spatial coordinates of implants and allow real-time monitoring of scoliosis correction. Metasurgical Technology Limited has also received startup funding from the TSSSU@HKU FY2023-24 funding scheme. The AlignPro is being filed for NMPA this year, and CE application thereafter and it will be launched in multiple mainland (Beijing Jishuitan Hospital, Peking Union Medical Centre, Shanghai Ruijin Hospital) and regional hospitals such as in Malaysia and Singapore as part of a multicenter clinical trial. These products representing HKU have been showcased at the ASGH Deal Flow Matchmaking Session in 2021 and Innocarnival 2022 for the Hong Kong Chief Executive and Secretary for Innovation and Technology respectively. For the AlignPro, as of January 2023, there are >2500 users. An additional 1 million is projected as its musculoskeletal rehabilitation module has been taken up by AIA Insurance as a packaged product for their subscribers with low back pain.

Patents Filed in Relation to These Products:

Lumbar Spine Anatomical Annotation Based on Magnetic Resonance Images Using Artificial Intelligence (US Provisional Application). Docket # 04435/010072-US0. Application #63/217,157 (6/30/2021). Inventors: Xihe Kuang, **Jason PY Cheung**, Teng Zhang

Non-Contact, Non-Radiation Device That Accurately Locates Multiple Implants in A Patient's Body (US Provisional Application). Docket # 04435/010216-US0. Application # 63/233,526 (08/16/2021). Inventors: Qi Weichen, Zhang Teng, **Cheung Jason Pui Yin**

Underpinning Research of This Theme:

- 1. Meng N, **Cheung JPY***, Kwan-Yee K. Wong, et. al., Zhang T, 2022, An artificial intelligence powered platform for auto-analyses of spine alignment irrespective of image quality with prospective validation, Lancet: eClinicalMedicine:43, doi: 10.1016/j.eclinm.2021.101252.
- 2. Lai M, Cheung PWH, Samartzis D, Karppinen J, Cheung KMC, **Cheung JPY***. The profile of the spinal column in subjects with lumbar developmental spinal stenosis. Bone Joint J. 2021;103-B(4):725-733.
- Lai MKL, Cheung PWH, Samartzis D, Karppinen J, Cheung KMC, Cheung JPY*. Clinical implications of lumbar developmental spinal stenosis on back pain, radicular leg pain, and disability. Bone Joint J. 2021;103-B(1):131-140.
- 4. Kuang X, **Cheung JPY**, et.al., Zhang T, 2021, SpineGEM: A Hybrid-Supervised Model Generation Strategy Enabling Accurate Spine Disease Classification with a Small Training Dataset, MICCAI, 145-154
- Cheung JPY*, Kuang X, et.al., Zhang T, 2021, Learning-based fully automated prediction of lumbar disc degeneration progression with specified clinical parameters and preliminary validation, European Spine Journal, 1-9
- Zhang T, Li Y, Cheung JPY*, Dokos S, Wong K, 2021, Learning-based coronal spine alignment prediction using smartphone-acquired scoliosis radiograph images, IEEE Access 9, 38287 - 38295, doi: 10.1109/ACCESS.2021.3061090
- 7. Mak T, Cheung PWH, Zhang T, **Cheung JPY***, 2021, Patterns of coronal and sagittal deformities in adolescent idiopathic scoliosis, BMC Musculoskeletal Disorders 22(1),1-10
- Kuang X, Cheung JPY, et.al., Zhang T, 2020, MRI-SegFlow: a novel unsupervised deep learning pipeline enabling accurate vertebral segmentation of MRI images, IEEE EMBC, p1633-1636, DOI: 10.1109/EMBC44109.2020.9175987
- 9. Zhang T, et.al., Diwan A, **Cheung JPY***, 2020, A novel tool to provide predictable alignment data irrespective of source and image quality acquired on mobile phones: what engineers can offer clinicians, European Spine Journal, doi: 10.1007/s00586-019-06264-y

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3. Scoliosis and Bracing Treatment Recommendations for Scoliosis Research Society

One of the major research themes under Dr. Cheung is nonoperative care for scoliosis. His work on paediatric growth standardization and brace treatment prediction modeling had made him recognized internationally for his expertise and clinical recommendations. He became a member of the nonoperative treatment focus group of the Scoliosis Research Society, and of the scoliosis focus group of the Asia Pacific Spine Society. In addition, a book in press on "Nonoperative treatment of idiopathic scoliosis using braces and PSSE" is to be published and distributed by Scoliosis Research Society for patients and practitioners. He was charged with providing the clinical standard for indications of brace treatment, imaging assessment (plus non-radiation imaging) for bracing, issue of immediate in-brace correction, adherence/compliance of bracing, time of brace wear and weaning. His work has also allowed him to be invited on an expert panel by the Scoliosis Research Society for his work. He has been invited to speak at these professional talks as the only Asian representative. The topics of these webinars were:

New Horizons in the Non-Op Care of Children and Adults with Scoliosis: Expanding the Use of Bracing and PSSE held on 5 Nov 2022 and Return to Activities after Spinal Deformity Surgery held on 14 Jan 2023.

The Underpinning Research for This Theme:

- Cheung PWH, Canavese F, Chan CYW, Wong JSH, Shigematsu H, Luk KDK, Cheung JPY. The Utility of a Novel Proximal Femur Maturity Index for Staging Skeletal Growth in Patients with Idiopathic Scoliosis. J Bone Joint Surg Am. 2022. 104(7) P630-640. Doi: 10.2106/JBJS.21.00747.
- Wong LPK, Cheung PWH, Cheung JPY. Supine correction index as a predictor for brace outcome in adolescent idiopathic scoliosis. Bone Joint J. 2022 ;104-B(4) :495-503. Doi : 10.1302/0301-620X.104B4.BJJ-2021-1220.R1.
- Cheung PWH, Cheung JPY. Does the Use of Sanders Staging and Distal Radius and Ulna Classification Avoid Mismatches in Growth Assessment with Risser Staging Alone ?. Clin Orthop Relat Res. 2021. 26;479(11):2516-2530. Doi: 10.1097/CORR.00000000001817.
- 4. Kawasaki S, Cheung PWH, Shigematsu H, Tanaka M, Suga Y, Yamamoto Y, Tanaka Y, Cheung JPY. Alternate

In-Brace and Out-of-Brace Radiographs Are Recommended to Assess Brace Fitting and Curve Progression with Adolescent Idiopathic Scoliosis Follow-Up. Global Spine J. 2021. P1-10. Epub Doi: 10.1177/21925682211032559.

- Cheung PWH, Cheung JPY. Does the Use of Sanders Staging and Distal Radius and Ulna Classification Avoid Mismatches in Growth Assessment with Risser Staging Alone ?. Clin Orthop Relat Res. 2021. 26;479(11):2516-2530. Doi: 10.1097/CORR.000000000001817.
- Cheung PWH, Cheung JPY. Sanders stage 7b : Using the appearance of the ulnar physis improves decisionmaking for brace weaning in patients with adolescent idiopathic scoliosis. Bone Joint J. 2021 ;103-B(1) : 141-147. Doi : 10.1302/0301-620X.103B1.BJJ-2020-1240.R1.
- Cheung JPY, Cheung PWH, Yeng WC, Chan LCK. Does Curve Regression Occur During Underarm Bracing in Patients with Adolescent Idiopathic Scoliosis? Clin Orthop Relat Res. 2020;478(2):334-345. Doi: 10.1097/CORR.00000000000989.
- 8. Cheung JPY, Cheung PWH. Supine flexibility predicts curve progression for patients with adolescent idiopathic scoliosis undergoing underarm bracing. Bone and Joint Journal. 2020;102-B(2):254-260. Doi: 10.1302/0301-620X.102B2.BJJ-2019-0916.R1.
- 9. Cheung JPY*, Cheung PWH, Luk KD. When should we wean bracing for adolescent idiopathic scoliosis ? Clin Orthop Relat Res. 2019;477(9):2145-2157.
- 10. Cheung JPY, Cheung PW, Samartzis D, Luk KD. Curve progression in adolescent idiopathic scoliosis does not match skeletal growth. Clin Orthop Relat Res. 2018;476(2): 429-436. Doi: 10.1007/s11999.0000000000027.
- 11. Cheung JPY, Yiu KKL, Vidyadhara S, Chan PPY, Cheung PWH, Mak KC. Predictability of supine radiographs for determining in-brace correction for adolescent idiopathic scoliosis. Spine. 2018;43(14):971-976. Doi: 10.1097/BRS.00000000002503.
- 12. Cheung JPY, Cheung PW, Samartzis D, Cheung KM, Luk KD. The use of the distal radius and ulna classification for the prediction of growth : peak growth spurt and growth cessation. Bone Joint J. 2016 ;98-B(12) :1689-1696. Doi : 10.1302/0301-620X.98B12.BJJ-2016-0158.R1.

*Corresponding authorship

L. Other Evidence of International/Regional Standing and Leadership

<u>International</u>

AOSpine

| 2016-2019 | AOSpine East Asia Research Officer |
|----------------|--|
| 2016-2022 | AOSpine Asia Pacific Research Committee and Grant Reviewer |
| 2017-present | AOSpine Trained Faculty |
| 2017-2021 | AOSpine International Grant Reviewer |
| 2019-2021 | AOSpine Asia Pacific Regional Research Chairman |
| 2022-present | AOSpine Asia Pacific Board Officers Nomination Committee |
| 2022-present | AOSpine Asia Pacific Spine Center Director |
| 2023-present | AOSpine Faculty of Diploma Program |
| 2022-present | AO Spine Grant Monitor |
| 1/2023-present | Associate Member, AO Spine Knowledge Forum (KF) Degen Steering Committee |

BMC Musculoskeletal Disorders

2020-present Senior Board Member of BMC Musculoskeletal Disorders

International Consortium for Spinal Genetics Development & Disease (ICSGDD) 11/2022-present Treasurer of ICSGDD

KU Leuven

| 2023 | Research Council of KU Leuven: C2M/23/058 |
|------|---|

Medical Research Council (UK) Research

2020 Medical Research Council (UK) Research Boards Jan 2020 Submissions: Population & Systems Medicine Board Musculoskeletal

Société Internationale de Chirurgie Orthopédique et de Traumatologie (SICOT)

| 2021-2023 | SICOT Spine | Subspecialty | Committee |
|-----------|-------------|--------------|-----------|
|-----------|-------------|--------------|-----------|

Scoliosis Research Society (SRS)

| 2016-2017 | SRS Grants Committee and Grant Reviewer |
|-----------|---|
| 2019 | Non-Operative Committee of SRS |

Swiss National Science Foundation

| 2023 | Grant | Reviewer, | Swiss | National | Science | Foundation: | Project | SNSF | - |
|-----------|---------|---------------|----------|--------------|-----------|----------------|-----------|----------|----|
| | 32003H | 3_214986 | | | | | | | |
| 2021-2022 | Grant 1 | Reviewer, Sv | wiss Nat | tional Scier | nce Found | ation: Project | Funding i | n Biolog | gy |
| | and Me | edicine Divis | sion III | | | | | | |

The China Consortium of Elite Teaching Hospitals for Residency Education

2017-present Fellow Representative and Committee Member of The China Consortium of Elite Teaching Hospitals for Residency Education

The International Society for the Study of the Lumbar Spine Member (ISSLS)2018ISSLS Asia-Pacific Representative

<u>Regional</u>

Asia Pacific Spine Society (APSS)

| 2014-present | APSS Active Member |
|-----------------|--|
| 2016-present | Membership Committee for APSS |
| 12/2017-present | Basic Surgical Course Committee for APSS |
| 2017-2020 | Founder and Chairman of the Research Committee of the APSS |
| 2020-present | APSS Scoliosis Focus Group |
| 2021-present | APSS Anterior Column Reconstruction Focus Group Chairman |
| 2022-present | APSS Hong Kong Board Member |

Asia Pacific Orthopaedic Association (APOA)

Present Asia Pacific Orthopaedic Association Life Member

M. Teaching and Learning

Teaching is an important area of Dr. Cheung's work. Not only does he serve as an educator both for the University and internationally, he has been a leader of education reform and advancement for the Department of Orthopaedics and Traumatology and the Faculty of Medicine. He helped introduce innovations in teaching such as 3D printing, e-Classroom enhancement and virtual reality skill training with the awarding of 2 Teaching Development Grants in 2021 and 2022, and the Teaching Development and Language Enhancement Grant from 2022-2025.

He carries numerous teaching appointments within the university and externally as listed below. Since 2015, he

has supervised or co-supervised **20 PhD** students (**3 currently are Presidential Scholars**) and **9 MPhil** students, of which **9 have graduated already**. He has also supervised 6 MRes students, 32 Enrichment Year research attachment students, and 20 students under the research internship scheme or elective attachment. Most of his students have published in major author roles, won local and international awards, and has gone on to successfully acquire post-graduate posts.

His regular teaching for the MBBS curriculum includes courses, PBL, tutorials, lectures, bedside teachings and practical sessions. He authored physical examination e-videos for medical students and is a PBL case educator, tutor and case writer. Professionally, he is a trainer for the Hong Kong College of Orthopaedic Surgeons for residents and hosting spine tutorials for higher Orthopaedic Trainees. In professional societies, he is a trained faculty for AOSpine and an instructor for the AOSpine Global Diploma program. He offers regular spine training courses and live demonstrations for AOSpine, Scoliosis Research Society, Asia Pacific Orthopaedic Association, Asia Pacific Spine Society, Hong Kong Spine Chapter, Hong Kong College of Orthopaedic Surgeons.

Regular Teaching

Approximately 58 contact hours each year for practical sessions and bedside teaching. Initiator of e-learning platform for the Department of Orthopaedics and Traumatology and member of teaching committee. Additional work includes creating online learning material in form of lectures, examination videos for medical students, MCQ testing and e-logbook.

Lectures/Teaching Sessions Include:

- 1. Seminar (Specialty Clerkship) Cervical Spine Disorder
- 2. Lecture (Senior Clerkship) Spine Related Pain
- 3. Seminar (Junior Clerkship) Spinal Infections
- 4. Lectures (Clinical Foundation Block Clinical Skills) Clinical Skills Practice/Workshop Spine
- 5. Lecture (MSSII) Introduction to Spinal Cord/Nerve Compression Disorders
- 6. PBL Musculoskeletal System Block
- 7. MSSII Anatomy Practicals and Dissections

Teaching Innovation and Development

- 1. Teaching Development and Language Enhancement Grant (TDLEG) Virtual Teaching and Learning (VTL): Orthopaedic Clinical Skills Learning via Advanced Virtual Reality (VR) Technology: \$1,000,000 (2022-25)
- 2. Teaching Development Grant (TDG) 2022: Enhancement of Musculoskeletal Clinical Skills Through Formative Assessment in an e-Classroom (Project no. 875): \$200,000 (12 Months)
- 3. CPDG Grant (#00007484; #00007544) for Master of Education Health Professions Education (2019-2021)
- 4. Teaching Development Grant (TDG) 2021: Advanced 3D Printed Models for Multidisciplinary Undergraduate Clinical Teaching (Project no. 842): \$298,932 (12 Months)
- 5. Health Care Project Supervisor 2016-2017 Group Won Professor Michael Colbourne Prize (2016-present)

Teaching Committees

HKU

- 1. Chief Examiner for the MBBS Summative Supplemenary/Re-Assessment (May-Jun 2023)
- 2. Thesis Examining Committee (TEC) Chairperson (June 2022-present)
- Chief Examiner for the MBBS Fourth Summative Assessment and Supplemenary/Re-Assessment (May-Jul 2022)

- 4. MBBS Curriculum Committee (MBCC) Representative for Orthopaedics and Traumatology (1 Sep 2021-Aug 31 2023)
- 5. PBL Sub-committee Chairman (1 Sep 2021-Aug 31 2023)
- 6. HKU Disciplinary Committee (2021-present)
- 7. Early Academic Career Development Mentorship Scheme Mentor (2020-present)
- 8. Preceptorship Programme for MBBS Year 1 Students Mentor (2020-present)
- 9. Chief Examiner (Research Attachment of Enrichment Year) (2021-present)
- 10. Research Convener for Enrichment year (Oct 2020-present)
- 11. PBL Sub-committee Co-Chairman (1 Sep 2019-Aug 31 2021)
- 12. MBBS II Musculoskeletal System Block Planning Committee: Department Representative and Created New Sessions Including Lectures and Dissection Sessions (2017-present)
- 13. Enrichment Year Programme and Elective Sub-Committee (2017-present)
- 14. Enrichment Year Research Committee Member and Student Supervisor (2017-present)
- 15. Clinical Skills Sub-Committee Musculoskeletal Clinical Skills Coordinator
- 16. Special Study Modules (SSM) Sub-Committee Member
- 17. Elective Sub-Committee Member
- 18. PBL Sub-Committee Clinical PBL Coordinator
- 19. PBL Case Writer, Trainer and Educator
- 20. MBBS2 and Final MBBS Minicase Writer (2019-2021) and Question Bank (2019-2021)
- 21. Board of Examiners for MBBS II/IV 2020, MBBS III EY (2019-2021)
- 22. Coordinator of Overseas Elective Studies
- 23. Francis Lau Scholarships for Medical Students Selection Committee (7/2017-present)

External

- 1. External Examiner for PhD Thesis, The Hong Kong Polytechnic University (Apr 21, 2023)
- 2. External Examiner for the AY2022/23 Final Professional Examination for Degrees of MBBS (Surgery Track) Yong Loo Lin School of Medicine, National University of Singapore (2-6 Mar, 2023)
- 3. Fellow Representative and Committee Member of The China Consortium of Elite Teaching Hospitals for Residency Education
- 4. The Medical Council of Hong Kong Internship Sub-Committee (2021-2026)
- 5. Member of Working Group for HKCOS Training Curriculum Review. (2020-present)
- 6. AOSpine Faculty of the Diploma Program
- 7. Trainer Certified by The Hong Kong College of Orthopaedic Surgeons
- 8. Basic Surgical Course Committee for Asia Pacific Spine Society

Postgraduate Supervision

PhD

- 1. Wu Zhaolong (Full-time PhD) (Co-supervisor) since 2023: Using Semantic Search and AI Technology to Drive Personalised Medicine in Adolescent Idiopathic Scoliosis
- 2. Li Qiuya (HKU Presidential PhD Scholar) since 2023: Three Dimension Computer Tomography Reconstruction of Spine for Progress Prediction in Patients with Adolescent Idiopathic Scoliosis
- 3. Li Jianting (Full-time PhD) (Co-supervisor) since 2023: Sports Medicine and Orthopedic Disease
- 4. Zeng Yi (Full-time PhD) (HKU Presidential PhD Scholarship) (Primary supervisor) since 2023: Data Privacy and System Security in Digital Therapeutics
- 5. Li Xiyan (Full-time PhD) (Co-supervisor) since 2023: Bone Metabolism and Bone Regeneration
- 6. Song Yiran (Full-time PhD) (Co-supervisor) since 2023: Biomedical Engineering
- 7. Cheng Ka Huen (Full-time PhD) (Co-supervisor) since 2023: Orthopaedic Biomaterials for Bone Regeneration
- 8. Wu Hao (Full-time PhD) since 2022: Spine Biomechanics
- 9. Zhang Jianan (Full-time PhD) since 2022: Genetic Skeletal Disorders
- 10. Zuo Zeyuan (HKU Presidential PhD Scholar) since 2022: Biomedical Engineering
- 11. Cheung Wing Ki (Full-time PhD) since 2020: Musculoskeletal Ultrasound
- 12. Zhao Moxin (Full-time PhD) since 2020: Medical Imaging Processing

- 13. Lau Ki Lee (Full-time PhD) (Co-supervisor) since 2020: Spine Surgery
- 14. Kuang Xihe (Full-time PhD) since 2019: Biomedical Engineering
- 15. Fan Yunli (Part-time PhD) since 2019: Scoliosis Pathology and Conservative Management
- 16. Yue Ming (Full-time PhD) (Co-supervisor) since 2018: Bioinformatics
- 17. Jin Yongqiang (Full-time PhD) since 2017: Osteoporotic Bone and Relation of Activation Neurons Regulate PTH (Graduated) Thesis: Multiscale Predictions of Vertebral Strength in Tissue, Microarchitecture, and Body Levels
- Wang Xiaolu (Full-time PhD) since 2017: Functional Studies of Adolescent Idiopathic Scoliosis (Graduated) Thesis: Molecular Basis of Adolescent Idiopathic Scoliosis
- 19. Cheung Wing Hang Prudence (Part-time MPhil) since 2017 switched to (Part-time PhD) since 2019: Skeletal maturity (Graduated) Thesis: Spinal Growth: Deciphering the Rosetta Stone
- 20. Li Xiaodong (Full-time PhD) (Co-supervisor) since 2015: Studies on Biomedical Engineering (Graduated) Thesis: New Measurement and Treatment Technologies for Hand Function Rehabilitation
- 21. Li Guangsheng (Part-time PhD) (Co-supervisor) since 2015: Biomedical Engineering (Graduated) Thesis: Neurovascular Unit Remodeling in Cervical Spondylotic Myelopathy

MPhil

- 1. Ilyas Zaineb (Full-time MPhil) (Co-supervisor) (Postgraduate Scholarship) since 2023: Epidemiology and Pharmacology in Orthopaedics
- 2. Ren Lijuan (Full-time MPhil) (Co-supervisor) since 2023: MSK Rehabilitation Biomechanics
- 3. Huang Tao (Full-time MPhil) (Co-supervisor) since 2023: Intellgient Medicine
- 4. Man Yam Wa (Full-time MPhil) (Co-supervisor) since 2023: Spinal Cord Injury, Spinal Disorders
- 5. Fu Yan (Full-time MPhil) (Co-supervisor) since 2023: Clinical Data-Driven AI Modelling in Orthopaedics
- 6. Wu Hao (Full-time MPhil) since 2019: Spine Biomechanics (Graduated) Thesis: Radiographic Evaluation of The Effectiveness, Complication, and Limits of Oblique Lateral Interbody Fusion (OLIF)
- 7. Cheung Wing Ki (Full-time MPhil) since 2018: Musculoskeletal Ultrasound (Graduated) Thesis: Use of Ultrasound Shear Wave Imaging in Understanding Low Back Pain
- 8. Chen Zheyi (Full-time MPhil) since 2017: Studies on Scoliosis Genetics (Graduated) Thesis: Impact of Postures on Cobb Angle Measurements in Scoliosis New Mouse Models
- Chan Tin Yan (Part-time MPhil) since 2015: Studies on Biomedical Engineering (Graduated) Thesis: An Automated Region of Interest (ROI) Segmentation Tool on Diffusion Tensor Imaging of The Cervical Spinal Cord

MRes

- 1. Hui Yuk Ting Victoria 2023-24: Surgical Outcomes of Adolescent Idiopathic Scoliosis (AIS) Patients
- 2. Ip Chi Yan 2023-24: Comparing Conventional Open Transforaminal Lumbar Interbody Fusion (open-TLIF) with Oblique Lateral Lumbar Interbody Fusion (OLIF) in the Treatment of Degenerative Lumbar Spine Disease: A Retrospective Cohort Study.
- 3. Justin Ho Ming Leung 2020-2021: Cervical Spine Phenotypes
- 4. Lester Po Kwan Wong 2020-2021: Prediction of Brace Outcome in Adolescent Idiopathic Scoliosis
- 5. Marcus Kin Hong Lai 2019-2020: Prevalence, Radiological and Clinical Spinal Phenotypes Associated with Lumbar Developmental Spinal Stenosis

Enrichment Year Research Attachment

- 1. Tse Kai Yeung (Full-year) 2023-24
- 2. Ng Tommy Chun Yee (Full-year) 2023-24
- 3. Lui Yui Shing Jedidiah (S2) 2023-24
- 4. Chan Kai Him Ambrose (S2) 2023-24
- 5. Maliwat Elijah (S2) 2023-24
- 6. Tsui Ching Tung (S2) 2023-24
- 7. Yau Man Sui (S1) 2023-24
- 8. Leung Mang Ching Evan (S1) 2023-24
- 9. Ng Ka Yu Priscilla (S1) 2023-2024
- 10. Shum Chun Pang (S1) 2023-24

- 11. Leung Hao Kwan Trevor (S2) 2022-2023
- 12. So Long Ting (S2) 2022-2023
- 13. Chan Oi Kiu Olivia (S1) 2022-2023
- 14. Chung Tin Chi Ricci (S1) 2022-2023
- 15. Wong See Laam (S1) 2022-2023
- 16. Cheung Tin Yan Samuel (Full-year) 2021-2022
- 17. Choi Hing Chung (S1) 2021-2022
- 18. Tai Tsz Ching (S1) 2021-2022
- 19. Tong Ling Yin Marvin (S1) 2021-2022
- 20. Wan Hiu Tung (S1) 2021-2022
- 21. Wu Cheuk Him (S1) 2021-2022
- 22. Wong Hei Lung (Full-year) 2020-2021
- 23. Tam Hei Lam (S2) 2020-2021
- 24. Chan Ming Hei Holy (S2) 2020-2021
- 25. Lam Wai Yi (S1) 2020-2021
- 26. Lam Chak Hei Jack (S1) 2020-2021
- 27. Yeung Matthew Hei-yu (S2) 2019-2020
- 28. To Ka Ho (S2) 2019-2020
- 29. Lee Chun Hei (S2) 2018-2019
- 30. Mak Trixie (S2) 2018-2019
- 31. Yeung Kam Leung Kenneth (S1) 2018-2019
- 32. Siu Pak Ying Pansy (S1) 2018-2019
- 33. Chung Austin (S1) 2018-2019
- 34. Chong Christopher Hiu-wo (S1) 2018-2019

N. Knowledge Exchange

3 Selected KE Activity Samples

Novel Technology in The Treatment of Early Onset Scoliosis

This theme was selected by the faculty to be one of the impact case studies in the Research Assessment Exercise (RAE) in 2020. Dr. Cheung was closely involved in the development, optimization, and demonstration of the safety and efficacy of the magnetically-controlled growing rod (MCGR) for early onset scoliosis to obviate the need for multiple surgeries. The MCGR allows for non-invasive, radiation-free distractions at regular intervals to avoid the traditional method of open surgery for distractions under general anesthesia every six months. The major underpinning research was provided by Dr. Cheung related to optimal treatment protocols, complications related to the technique of rod distraction, use of ultrasound for monitoring of distractions, recommendations of optimal frequency and amount of distraction per session, and long-term follow-up. The MCGR has mostly replaced traditional growing rods internationally as the gold standard distraction device for early onset scoliosis. Early experience of the device led to feedback and discussion with Ellipse Technologies Inc. to improve and optimize subsequent versions of the MCGR. There was an increase in implant sales with increased revenue from USD 25M in 2014 to USD 40M in 2015. The success of the device has led to the acquisition of Ellipse Technologies Inc. by NuVasive Inc. for USD 380M in 2016. Dr. Cheung's research in this area helped drive guidelines from the National Institute of Health and Care Excellence (NICE) in the UK in 2014, Centers for Medicare and Medicaid Services in US, and white papers from the Scoliosis Research Society and Growing Spine Study Group have included the MCGR based on our experiences and recommendations.

AI-Driven Complete Scoliosis Treatment Platform

Dr. Cheung has utilized AI and his expertise in scoliosis to develop technologies for AI detection of scoliosis severity on back images and auto-annotations of spine radiographs (AlignPro) and AI-powered simulation with radiation-free tracking and device monitoring for post-operative scoliosis correction (OI-GPS). These products helped create spin-off companies CoNova Medical Technology Limited and Metasurgical Technology Limited.

The latter was developed to allow for tracking spatial coordinates of implants and allow real-time monitoring of scoliosis correction. Metasurgical Technology Limited has also received startup funding from the TSSSU@HKU FY2023-24 funding scheme. They also won the Gold and Silver Medals respectively from the Special Edition 2022 Inventions Geneva Evaluation Days. AlignPro has filed for NMPA and CE, and has been launched in multiple mainland (Beijing Jishuitan Hospital, Peking Union Medical Centre, Shanghai Ruijin Hospital) and regional (Malaysia and Singapore) hospitals. These products representing HKU have been showcased at the Asia Summit on Global Health (ASGH) Deal Flow Matchmaking Session in 2021 and Innocarnival 2022 for the Hong Kong Chief Executive and Secretary for Innovation and Technology respectively. For the AlignPro, as of January 2023, there are >2500 users. An additional 1 million is projected as its musculoskeletal rehabilitation module has been taken up by AIA Insurance as a packaged product for their subscribers with low back pain.

Patents:

- Lumbar Spine Anatomical Annotation Based on Magnetic Resonance Images Using Artificial Intelligence (US Provisional Application). Docket # 04435/010072-US0. Application #63/217,157 (6/30/2021). Inventors: Xihe Kuang, Jason PY Cheung, Teng Zhang
- Non-Contact, Non-Radiation Device That Accurately Locates Multiple Implants in A Patient's Body (US Provisional Application). Docket # 04435/010216-US0. Application # 63/233,526 (08/16/2021). Inventors: Qi Weichen, Zhang Teng, Cheung Jason Pui Yin

Smart Girdle for Scoliosis Correction

This project is a collaboration between Dr. Joanne Yip from The Hong Kong Polytechnique University together with the spine division at The University of Hong Kong. Dr. Yip has developed an external soft brace to help control the progression of scoliosis. Several joint publications were generated and the device helped win the best paper at the AHFE 2022 International Conference (July 2022).

Patent:

Customizable Wearable Top to Treat Scoliosis in A Person. Pub. No. US 2021/0059849 A1. Pub date: Mar. 4, 2021. Inventors: Yip, Yiu-Wan Joanne; Fung, Ho-Yi Olivia; Yick, Kit-Lun; Tse, Chi-Yung; Cheung, Man-Chee Kenneth; Kwan, Yat-Hong Kenny; Cheung, Pui-Yin Jason; Ng, Sun-Pui

Joint Publications:

- 1. Liu PY, Yip J, Chen BY, Yick KL, He LF, **Cheung JPY**, Ng SP. Immediate effects of posture correction girdle on adolescents with early scoliosis. Healthcare and Medical Devices. 2022 ;51 :100-107. Doi : 10.54941/ahfe1002104.
- Fung OHY, Yip J, Cheung MC, Yick KL, Kwan KYH, Cheung KMC, Cheung JPY, Tse CY. Exploring mass customization and textile application in medical products : re-designing scoliosis brace for shorter production lead time and better quality of life. Textile Research Journal. 2020;90(19-20):2304-2321. Doi: 10.1177/0040517520916922.
- 3. Chan WY, Yip J, Yick KL, Ng SP, Lu L, Cheung KMC, Kwan K, **Cheung JPY**, Yeung K, Tse CY. Mechanical and Clinical Evaluation for a Shape Memory Alloy and Conventional Struts in a Flexible Scoliotic Brace. Annals of Biomedical Engineering. 2018;46(8):1194-1205. Doi:10.1007/s10439-018-2016-8.

KE Website:

1. Yip J, Cheung JPY. RTHK31 TV Programme 香港故事:創科夢工場 (18'40: Smart Girdle for Scoliosis Correction) (13 Feb 2023) <u>https://www.rthk.hk/tv/dtt31/programme/hkstories_inventorsinhk/episode/862797</u>

KE Competitive Funding (Total HK\$252,650)

1. KE Impact Project Funding (KE-IP-2020/21-56): Implementation of Fully-Automated Spinal Measurements into Patient Care (**HK\$90,000**)

- 2. KE Impact Project Funding (KE-IP-2019/20-42): Scoliosis Fun Day 2020 (HK\$38,000)
- 3. KE Impact Project Funding (KE-IP-2017/18-42): Enriching Patients' Knowledge of Cervical Spondylotic Myelopathy (HK\$40,000)
- 4. KE Impact Project Funding (KE-IP-2015/16-42): Enhancing Scoliosis Knowledge (HK\$84,650)

KE Awards

- 1. Gold Medal, Special Edition 2022, Inventions Geneva Evaluation Days, International Exhibition of Inventions of Geneva (IEIG). An intelligent Orthopaedics Platform: AlignPro[™] System and Device for Radiation-Free Spine Alignments. ---Mar 2022 (Listed as representing CoNova Technology Inc.)
- 2. Silver Medal, Special Edition 2022, Inventions Geneva Evaluation Days, International Exhibition of Inventions of Geneva (IEIG). Non-contact, Non-radiation Device that Accurately Locates Multiples Implants in a Patient's Body. ---Mar 2022 (Listed as representing HKU TTO)

KE Featured Activities/Websites/Social Media

- 1. NowTV News 【杏林在線】 <u>脊柱側彎</u> (3 Nov 2023)
- 2. RTHK English News: Healing with AI: Data and Diagnostics (21 Aug 2023) <u>Healing with AI: data and diagnostics RTHK</u>
- 3. RTHK31 TV Programme 香港故事:創科夢工場 (18'40: Smart Girdle for Scoliosis Correction) (13 Feb 2023) <u>https://www.rthk.hk/tv/dtt31/programme/hkstories_inventorsinhk/episode/862797</u>
- 4. HKU RAE Impact Case submission https://www.ugc.edu.hk/doc/eng/ugc/rae/2020/im/uoa03/uoa03_hku_impact_case_study_004.pdf
- 5. CoNova Technology Inc.: https://en.conovatech.com/pages/our-executive-team
- 6. TTO Newsletter for Products Winning Geneva Evaluation Days: https://www.tto.hku.hk/f/newsletter/1539/Newsletter Geneva%202022%20final.pdf
- 7. Silver Medal: Non-Contact, Non-Radiation Device That Accurately Locates Multiple Implants in A Patient's Body. HKU's Innovative Research Projects Triumph at Special Edition 2022 Inventions Geneva Evaluation Days, International Exhibition of Inventions of Geneva.
 - HKU Press Release: https://www.hku.hk/press/news_detail_24318.html ---29 Mar 2022
 - Technology Transfer Office, HKU: https://www.tto.hku.hk/news/hku-s-innovative-researchprojects-triumph-at-special-edition-2022-inventions-geneva-evaluation-days ---29 Mar 2022
 - eConnect: Discover the 12 winning HKU Inventions at the prestigious Geneva competition (IEIG): https://www.alumni.hku.hk/econnect/2022/20220404.html ---4 Apr 2022
 - Topick: 【 揚 威 國 際 】「2022 年 日 內 瓦 國 際 發 明 展 」 本 港 奪 17 項 金 獎 https://topick.hket.com/article/3222131/ ---4 Apr 2022
 - 文匯網: 日內瓦國際發明展香港奪 204 獎創新高 政府加碼資助創科發展 https://www.wenweipo.com/a/202204/05/AP624c1011e4b036dce9a53996.html ---5 Apr 2022
 - 經濟日報:【香港科研】2022年日內瓦國際發明展 香港代表斬獲 204 獎項 政府計劃加碼 資助科研發展 https://inews.hket.com/article/3222204/ ---5 Apr 2022
 - 晴報: 揚威國際 | 2022 年日內瓦國際發明展 生產力局奪 38 獎全港最多 SMART PATCH 獲 最高榮譽金獎 https://skypost.ulifestyle.com.hk/article/3216043/ ---29 Mar 2022

- Introduced to the VIPs an HKU Invention, OI-GPS, A Contact- And Radiation-Free Mobile Sensing Technology Developed by His Team That Precisely Locates the Spatial Coordinates of Surgical Implants in The Patient's Body. HKU TTO. Innocarnival 2022: <u>https://www.linkedin.com/posts/hkutechnologytransferoffice_hku-innocarnival-hku-activity-6989502692989554688-A8aE/?utm_source=share&utm_medium=member_desktop</u>
- 9. Success Story: Non-contact, Non-Radiation Device for Implant Detection. HKU Technology Transfer Office (TTO) Newsletter Issue 26. ---30 Aug 2022
- 10. Showcase for CoNova Tech at ASGH Deal Flow Matchmaking Session in 2021: https://hkmb.hktdc.com/en/1X0AM29L/entrepreneurship/Spine-flexing-start-up
- 11. 句句有骨 香港大學骨科專家與你破解 37 個骨科迷思 (p20-24: 脊柱側彎 絕非小兒科) --- 2021
- 12. HKU and International Collaborative Research Team Successfully Develop A New Predictive Model for The Progression of Adolescent Idiopathic Scoliosis ---1 Oct 2015

Other KE Activities/Websites/Social Media

- 1. 全国骨外科学领域学者学术影响力排名
- 科洛华助力大规模、规范化脊柱畸形筛查: http://mp.weixin.qq.com/s?__biz=MzU1NDYyODkzMg==&mid=2247484057&idx=1&sn=e27b04f00 540f2ce9f513ebf46ab7ff4&chksm=fbe1e0b2cc9669a450205e503219b550cb0bd8e15c3862a15be1592 62985aabfb83fa173f6ea&mpshare=1&scene=1&srcid=06148UGwuc43FqPtRmCnGlJf&sharer_shareti me=1686754469175&sharer_shareid=47126563f5b9a73bfe368f6e007ff8b9#rd ---2 Jun 2023
- 3. 我司在上海参加"数字诊疗创新中心"成立仪式: http://mp.weixin.qq.com/s?__biz=MzU1NDYyODkzMg==&mid=2247484049&idx=1&sn=cbee9424c 2fc68eeece069f6c98b64c6&chksm=fbe1e0bacc9669ac73892a12dbe1a917d58bde13a421877c33a6d48 bc83aed9aa48e4286f748&mpshare=1&srcid=0531EbQxrzZc4PbpSB0WdiDm&sharer_shar etime=1686754484552&sharer_shareid=47126563f5b9a73bfe368f6e007ff8b9#rd ---26 May 2023
- 4. ABCspine 脊柱身姿: 骨科醫生專訪(三) 鍾培言醫生 香港可以在那裏做 VBT 手術? https://www.youtube.com/watch?v=BOcL35JN9go&t=7s ---10 Apr 2023
- 5. ABCspine 脊柱身姿: 骨科醫生專訪(二) 鍾培言醫生 VBT 非融合微創脊柱側彎手術 https://www.youtube.com/watch?v=Esybos6bFil ---26 Mar 2023
- ABCspine 脊柱身姿: 骨科醫生專訪(一) 鍾培言醫生 <u>https://www.youtube.com/watch?v=pOzSe1lczmA</u> ---19 Feb 2023
- Adolescent Idiopathic Scoliosis: Curve Progression in Brace Patients Can Be Predicted by Curve Flexibility and In-Brace Correction. AO Spine Guest Blog: https://www.aofoundation.org/spine/aboutaospine/blog/2022_10-blog-cheung-scoliosis?utm_source=email&utm_medium=pardotemail&utm_campaign=aos_events_promo ---6 Oct 2022
- 8. Spinal News International: Novel Supine Correction Index Helps Predict Brace Outcomes in Adolescent Idiopathic Scoliosis Patients. https://spinalnewsinternational.com/novel-supine-correction-index-helps-predict-brace-outcomes-in-adolescent-idiopathic-scoliosis-patients/ ---11 Jul 2022
- 9. Taking the Hardest Route is Often the Right Choice -135 Years of Mentor-Mentee Relationships at HKUMed 【HKUMed135 良師醫友】陸瓞驥 X 鍾培言:堅持走正確的路, HKUMed Medium https://hkumed.medium.com/taking-the-hardest-route-is-often-the-right-choice-135-years-of-mentor-

mentee-relationships-at-70c156e269d3 ---18 May 2022

- 10. Public Lectures Booklet VI_P.110-113: 兒童脊柱側彎 ---2020
- 11. Distal Radius and Ulna Classification Mobile App (DRUapp) --- since 1 Jan 2017
- 12. Scoliosis Brochure/Pamphlet: Information to Patients and Families --- 28 Jan 2016
- Scoliosis Knowledge Website and Online Forum: http://skeletalmaturity.hku.hk/en/home/ ---since 7 Mar 2015

Other KE News and Press Release

- 1. News Reports on JAMA Open Study "Deep Learning Model to Classify and Monitor Idiopathic Scoliosis in Adolescents Using a Single Smartphone Photograph. JAMA Network Open. 2023":
 - Mathur, Neha. 30 Aug 2023. Can a validated deep learning model facilitate the diagnosis and management of adolescent idiopathic scoliosis?. News-Medical <u>https://www.news-</u> <u>medical.net/news/20230830/Can-a-validated-deep-learning-model-facilitate-the-diagnosis-and-</u> <u>management-of-adolescent-idiopathic-scoliosis-without-extra-radiation-exposure.aspx</u>
 - Kate Madden Yee. 24 Aug 2023. Can an AI photo app help diagnose scoliosis? Clinical News. Auntminnie. <u>https://www.auntminnie.com/clinical-news/article/15634096/can-an-ai-photo-app-help-diagnose-scoliosis</u>
 - Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Medicalexpress. <u>https://medicalxpress.com/news/2023-08-app-beneficial-adolescent-idiopathic-scoliosis.html</u>
 - Elana Gotkine. Aug 2023. App Beneficial for Management of Adolescent Idiopathic Scoliosis. Drugs.com. <u>https://www.drugs.com/news/app-beneficial-management-adolescent-idiopathic-scoliosis-114588.html</u>
 - Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. CrossRoads Today. <u>https://www.crossroadstoday.com/news/health/app-beneficialfor-management-of-adolescent-idiopathic-scoliosis/article_dd3145c0-b419-58ff-87ccda3bd10e61fb.html</u>
 - Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. KOAM News Now.com. <u>https://www.koamnewsnow.com/news/health/appbeneficial-for-management-of-adolescent-idiopathic-scoliosis/article_df51e56f-e07d-58fca164-28ec15431063.html</u>
 - Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Auburnpub.com. <u>https://auburnpub.com/lifestyles/health-med-fit/app-beneficial-formanagement-of-adolescent-idiopathic-scoliosis/article_8759c293-5228-548a-897cc8d88ef130a0.html</u>
 - Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. HealthDay News. <u>https://www.healthday.com/healthpro-news/child-health/scoliosis-physician-s-briefing-2664236295.html</u>
 - Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Channel3000. <u>https://www.channel3000.com/news/health/app-beneficial-formanagement-of-adolescent-idiopathic-scoliosis/article_6f1745f3-926b-55b3-a077eac9641d40b8.html</u>

- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Wyomingnews. <u>https://www.wyomingnews.com/lifestyles/health/app-beneficial-formanagement-of-adolescent-idiopathic-scoliosis/article_1c4f3c99-5e92-52b2-8fc9ea408725e0ee.html</u>
- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. KXLY.com. <u>https://www.kxly.com/news/health/app-beneficial-for-management-of-adolescent-idiopathic-scoliosis/article_5c93af05-b323-5b89-b163-bd71c8f8c5be.html</u>
- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Daily Jourmal. <u>https://www.djournal.com/lifestyle/health/app-beneficial-formanagement-of-adolescent-idiopathic-scoliosis/article_77abf978-dcb9-52ca-bef0-306d48d4adb6.html</u>
- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Kdhnews.com. <u>https://kdhnews.com/living/health/app-beneficial-for-managementof-adolescent-idiopathic-scoliosis/article_46f5fafa-0735-5139-a27f-dcdc892d1158.html</u>
- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Opera News. <u>https://m.dailyadvent.com/</u>
- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. WFMZ-TV 69. <u>https://jamanetwork.altmetric.com/details/153249718/news</u>
- Elana Gotkine. 24 Aug 2023. App beneficial for management of adolescent idiopathic scoliosis. Southern lowa Mental Health Center. <u>https://simhcottumwa.org/app-beneficial-for-management-of-adolescent-idiopathic-scoliosis/</u>
- 2. am730: 退化性脊柱側彎的治療 (8 May 2023) 退化性脊柱側彎的治療 | am730
- 3. APSS Newsletter 2nd APSS-HKU Basic Spine Course 2021. Page 3; Issue 12. --- Jan Dec 2021
- 4. Spine-flexing Start-up
- 5. https://hkmb.hktdc.com/en/1X0AM29L/inside-china/Spine-flexing-start-up ---24 Dec 2021
- 6. 情系腰椎大家谈时空连线谱华章 | 腰椎外科学组系列空中学术讲堂圆满收官 https://mp.weixin.qq.com/s/dtM-kqmd5kXiTE v7BW8Gg ---21 Dec 2021
- 7. 醫健寶庫:正視脊柱側彎 及早治療免惡化 Oriental Daily News A10 --- 20 Jul 2021
- 8. 正視脊柱側彎 及早治療免惡化 https://www.med.hku.hk/en/about-hkumed/knowledge-exchange/~/link.aspx?_id=90EFCF0753D544BA86C02A3F9D8D261A&_z=z ---10 Jul 2021
- 9. 6th Scoliosis Patient Forum Hosted by The University of Hong Kong Shenzhen Hospital. 19:45-21:30 ---25 Jun 2020
- 10. https://aospine.aofoundation.org/about-ao-spine/news/2020/2020_04-study-impact-covid-19 ---9 Apr 2020
- 11. HKU MEd Health Professions Education Specialism. https://youtu.be/7ORbKe3qbQE
- 12. am730: 下腰背痛腳痺乏力或成人脊柱側彎病徵 ---4 Nov 2019

- 13. am730: 兒童脊柱側彎 磁力生長棒助矯正 ---28 Oct 2019
- 14. "Explore the World of Medicine" Public Lecture Series 2019: Knowing More About Spinal Deformity: Spine Deformities in Children ---15 Jun 2019
- 15. 谈腰,天下文章尽挹京都;论脊,华夏英豪寰震宇内——Chinese Keep Coming! ---7 Jun 2019
- 16. 醫健寶庫:女童易患脊柱側彎 宜及早篩查 ---18 May 2019
- Spinal Surgery News: Genetic Clues to Spinal Stenosis http://www.spinalsurgerynews.com/2017/12/genetic-clues-spinalstenosis/25009?dm i=FOB,5CHD8,KHQG0R,KNKST,1 ---12 Dec 2017
- Science Daily: Genetic Clues to Spinal Stenosis https://www.sciencedaily.com/releases/2017/10/171013132143.htm ---13 Oct 2017
- MIMS Doctor: New MRI Technology A Leap Forward for Diagnosing Degenerative Disc Disease ---1 Sep 2017
- 20. Spinal News International e-newsletter: New MRI Tool Offers Improved Method of Imaging Degeneration https://spinalnewsinternational.com/uds-linked-low-back-pain/ ---18 Aug 2017
- 21. 晴報: 磁力共振新技術 腰椎退化無所遁形 ---17 Aug 2017
- 22. Sing Pao: 港大發現椎間盤病徵 助評估腰椎退化 --- 17 Aug 2017
- MIMS Today: HKU Scientists Discover Novel Imaging Biomarker to Diagnose Low Back Pain https://today.mims.com/topic/hku-scientists-discover-novel-imaging-biomarker-to-diagnose-low-backpain?country=hongkong ---17 Aug 2017
- 24. The Standard: HKU Researchers Find New Sign of Low Back Pain --- 17 Aug 2017
- 25. Hong Kong Economic Journal: 港大研究解腰椎退化之謎 --- 17 Aug 2017
- 26. am730: The Most Common Type of Scoliosis -- Adolescent Idiopathic Scoliosis --- 20 Jul 2015
- 27. am730: 香港大學李嘉誠醫學院矯型及創傷外科系列 ---13 Jul 2015
- 28. 深圳商报数字报: 港大深圳医院骨科"三名工程"揭牌 ---5 Jun 2017
- 29. 深圳晚报 数字报: 香港玛丽医院骨科团队入驻港大深圳医院 "三名工程" ---5 Jun 2017
- 30. 深视新闻 城市联合网络电视台: 脊柱外科名医团队落地港大深圳医院 ---5 Jun 2017
- 31. 香港商报: 馬化騰出席港大深圳醫院三名工程揭牌 ---5 Jun 2017
- 32. 深圳骨科携手世界顶尖团队打造国内 脊柱病变诊疗中心 深圳骨科携手世界顶尖团队打造国内脊 柱病变诊疗中心_央广网 (cnr.cn) ---5 Jun 2017
- 33. 深圳特区报: 打造顶尖脊柱病变诊疗中心 ---5 Jun 2017
- 34. 東方日報,大公報,文匯報,成報,太陽報,香港經濟日報,星島日報,南華早報:港島西醫院聯網 2015/16 新服務:使用新電腦儀器 減低支架治療等候時間 ---16 Sep 2015

- 35. Teenage Orthopod Scheme ---13-24 Jul 2015
- 36. Pearl Report TVB Spared from Surgery ---25 Mar 2015
- 37. Cheung JPY, Samartzis D, Cheung KMC. Focus On: Management of Early-Onset Scoliosis. Bone and Joint Journal. 2013. http://www.boneandjoint.org.uk/content/focus/management-early-onset-scoliosis

O. <u>Services / Administration</u>

Well demonstrated governance, contribution to programmes and project, and producing opportunities for colleagues and MRes. Clear evidence of leadership in international and regional societies, local college and medical council positions, and at the University and Department level.

International

- 1. AOSpine Asia Pacific Spine Center Director
- 2. Program Committee of The Global Spine Congress 2021. Paris, France
- 3. Program Committee of The ISSLS Virtual Annual Meeting 2021 --- 31 May-4 Jun 2021
- 4. Non-Operative Committee of Scoliosis Research Society ---2019-present
- 5. Program Committee of The ISSLS Annual Meeting 2019. Kyoto, Japan. ---3-7 Jun 2019
- 6. Program Committee of The ISSLS Annual Meeting 2018. Banff, Canada. ---14-18 May 2018
- Program Committee of The 53rd Annual Meeting & Course Of The Scoliosis Research Society. Bologna, Italy. ---10-13 Oct 2018
- 8. Program Committee of The ISSLS Annual Meeting 2017. Athens, Greece. ---29 May-2 Jun 2017
- 9. Research Grant Committee for Scoliosis Research Society --- Jan 2016-Dec 2017
- 10. Scientific Program Committee for Scoliosis Research Society --- Jan 2017-present
- 11. Scoliosis Research Society Candidate Member --- 2015-present
- 12. The International Society for The Study of The Lumbar Spine Member --- 2015-present
- 13. SICOT Member --- 2014-present

Regional

- Scientific Committee of the 2021 Asia Pacific Spine Society Annual Meeting. 13th Combined Meeting of Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society, Hybrid Meeting, Kobe, Japan. ---9-12 Jun 2021
- Scientific Committee of The 2020 Asia Pacific Spine Society Annual Meeting. Shanghai, China. ---5-7 Jun 2020
- 3. Scientific Committee of The 12th Combined Meeting of The Asia Pacific Spine Society & Asia Pacific Paediatric Orthopaedic Society. Incheon, Korea. ---4-6 Apr 2019
- 4. Scientific Committee of The 2018 Asia Pacific Spine Society Annual Meeting. Taipei, Taiwan. ---7-10 Jun 2018
- 5. Asia Pacific Spine Society Anterior Column Reconstruction Focus Group Chairman --- 2021-present
- 6. Asia Pacific Spine Society Scoliosis Focus Group --- 2020-present
- 7. Membership Committee for Asia Pacific Spine Society --- Jan 2016-present

- 8. Basic Surgical Course Committee for Asia Pacific Spine Society --- Dec 2017
- Research Committee Chairman for Asia Pacific Spine Society. Member Since 01/2016. --- Jan 2016-Jun 2021
- 10. Research Officer for AOSpine East Asia Council --- Jan 2016-present
- 11. Asia Pacific Spine Society Active Member --- 2015-present
- 12. Organizing Committee for The 2015 Combined Meeting of Hong Kong International Orthopaedic Forum with The Asia Pacific Spine Society And Asia Pacific Paediatric Orthopaedic Society In Hong Kong
- 13. Asia Pacific Orthopaedic Association Life Member

Local (Outside HKU)

- 1. Hong Kong Spine Chapter Council Member 2022 present
- 2. Hong Kong Convention Ambassador, Hong Kong Tourism Board --- 2023-2024
- 3. Treasurer, Hong Kong College of Orthopaedic Surgeons Council --- 2022-2024
- 4. Chief of Service for Orthopaedics and Traumatology, Gleneagles Hong Kong --- from 1 Jan 2022
- 5. Spine Centre Director, Gleneagles Hong Kong
- 6. Operation Theatre Committee, Gleneagles Hong Kong
- 7. Adjunct Professor of Biomedical Engineering, The Hong Kong Polytechnic University --- 2022-2024
- 8. The Medical Council of Hong Kong Internship Sub-Committee --- 2021-2023
- 9. Member of Working Group for HKCOS Training Curriculum Review --- 2020-present
- 10. Hong Kong Orthopaedic Association Member

University

- 1. Strategic Leadership Program---13-15 June 2023
- 2. HKU Disciplinary Committee --- 2021-present
- 3. HKU Senate and Court Member --- 2021-present
- 4. Fellow Representative and Committee Member of The China Consortium of Elite Teaching Hospitals for Residency Education
- 5. Overseer of NMPA accreditation in Clinical Trials Centre, HKU
- 6. Francis Lau Scholarships for Medical Students Selection Committee ---7/2017-present

Faculty

- 1. Research Assessment Exercise (RAE) 2026: Co-Impact Case Lead for the Unit of Assessment (UoA) 03-Clinical Medicine (Aug 2022-present)
- 2. Faculty Board, Li Ka Shing Faculty of Medicine
- 3. The Mace Bearer --- Sep 2018-present
- 4. Faculty Library Committee ---2014-2019
- 5. Francis Lau Scholarships for Medical Students Selection Committee ---7/2017-present
- 6. Faculty Member of China Projects (HKU/QMH Fellow)

Department

- 1. Overseer of NMPA accreditation in Clinical Trials Centre, HKU --- 2021-present
- 2. Department Representative for the Hong Kong Genome Project --- 2021-present
- 3. Coordinator of Overseas Elective Studies
- 4. Organizing Committee for the Hong Kong International Orthopaedic Forum --- 2019-present
- 5. Organizing Committee for the Hong Kong Distinguished Lecture Series --- 2014-present
- 6. Organizing Committee Chair for the Hong Kong Distinguished Lecture Series --- 2015-present
- 7. Teaching Committee
- 8. Office Allocation Committee
- 9. Website Revamp Committee
P. Clinical Service

Dr. Jason Cheung is an internationally recognized Orthopaedic surgeon who specializes in spine surgery and specifically in spinal deformities. He is well-recognized locally, regionally and internationally for management of paediatric scoliosis specifically with regards to magnetically controlled growing rod technology for Early Onset Scoliosis, and brace treatment and vertebral body tethering for Adolescent Idiopathic Scoliosis. He is one of a handful of surgeons in the region who specializes and innovates these technologies, has one of the highest case volume with this surgery regionally, and regularly trains surgeons regionally and internationally for these techniques. As a pioneer in this area, he is often invited to speak on the topics and works with industry like NuVasive Inc.to provide master courses and user meetings. In addition, he is an advocate for minimally invasive surgery and is well-recognized for lateral access surgery for degenerative lumbar spine conditions and adult deformity. As such, he is a regular trainer and educator for these techniques locally, regionally and internationally in collaboration with industry like Medtronic Inc. and NuVasive Inc., and professional societies like AOSpine, Scoliosis Research Society and the Asia Pacific Spine Society for invited talks, webinars, conferences, and cadaveric courses. He serves as chairperson of the lateral access surgery study group in the Asia Pacific Spine Society. Locally, due to his status, he is the director of the scoliosis center at Gleneagles Hong Kong providing the most experienced and only regular source of vertebral body tethering for patients, and is spearheading development of spine surgery at the Hong Kong Children's Hospital.

Spine Surgery

- 1. Introduced the Preoperative and Postoperative Pathway for General Spine Surgery at Queen Mary Hospital
- 2. Introduced the Adolescent Idiopathic Scoliosis Clinical Pathway at Duchess of Kent Children's Hospital
- 3. Introduced the Spinal Cord Injury clinical pathway at Queen Mary Hospital
- 4. Supervision of Patient Care in Division of Spine Surgery at Queen Mary Hospital and Duchess of Kent Children's Hospital
- 5. Specialist On-Call for Spine Surgery
- 6. Trainer to Residents and Overseas Fellows
- 7. Division of Spine Surgery Liaison for Medical Records Administration
- 8. Co-applicant for Hospital Authority Annual Plan Program-16-076HKW: "Enhance Rehabilitation of Back and Neck Pain Patients In HKWC"

General Orthopaedics

- 1. Provides Consultation Services for Spine-Related Patients
- 2. 4th call and Provides On-Call Supervision To 1st, 2nd, and 3rd Call Colleagues
- 3. Provides Inter-Department Consultation

The Duchess of Kent Children's Hospital at Sandy Bay (DKCH)

1. Member of the Hospital Governing Committee (HGC) of DKCH --- 1 Apr 2023-31 Mar 2024

HKU-Shenzhen Hospital

- 1. Co-investigator of Three Fames Project/三名工程 (Obtained Another Funding of RMB 15,000,000)
- 2. Co-investigator of Three Fames Project/三名工程 (Obtained Funding of RMB 18,000,000)
- 3. 助理学科带头人:深圳市医学重点学科(重点专病)---2020-2024
- 4. 广东省医学科研基金(范云丽)
- 5. Clinical Associate Professor and Honorary Consultant --- from 2018

Hong Kong Children's Hospital

- 1. Development of Scoliosis Service
- 2. Provides Consultation Services for Spine-Related Patients
- 3. Development of a Teaching/Training Hub

4. Member of Research Steering Committee --- until 31 Mar 2026

Gleneagles Hospital Hong Kong

- 1. Chief of Service for Orthopaedics and Traumatology --- from 1 Jan 2022
- 2. Clinical Governance Committee member --- from 9 May 2022
- 3. Clinical Associate Professor and Part of The Scoliosis Excellence Unit
- 4. Provides Spine Consultation and Surgery

Hong Kong Sanatorium Hospital

1. Provides Spine Consultation and Surgery

Training Course Attended:

- 1. The Tether[™], Vertebral Body Tethering System. ZimVie 12 Jun 2023
- 2. Strategic Leadership Program for Department Chairs, HKU 21 Jun 2023