Editorial
More research and education of osteoporosis should be focused on the oldest old and men

Hip fracture is a major public health problem worldwide, especially due to increased aging population and life expectancy. It is known to be associated with increased dependency, institutionalization, morbidity, immobility, and mortality. Thus, it is a condition not only affecting the patient per se, but also family members, social welfare, and socioeconomic system.

Probably due to increased public awareness and advanced research in the field, there have been reported decreasing or stabilizing trend of incidence of hip fracture in many developed countries, including Sweden [1], France [2], and Japan [3]. In the last issue of Osteoporosis and Sarcopenia, Hong and Han [4] reported the incidence of hip fracture in Korea. Like many other studies [2], absolute number of hip fracture increased in both women and men. For standardized incidence rate (Std. IR) of hip fracture, it was stabilized in men from 2006 (112 per 100,000 person-years) to 2015 (114.1 per 100,000 person-years). However, the Std. IR of hip fracture in women increased from 212.2 per 100,000 person-years in 2006 to 255.2 per 100,000 person-years in 2015. By investigating the effect of age, it was clearly demonstrated that the Std. IR was stabilized in the age group of 50–59 and 70–79, decreased in the age group of 60–69, but significantly increased in the age group of 80 or above.

This study is of public health importance. United Nations projected that life expectancy will reach 83 years in the more developed regions of the world by 2045–2050 [5], implying that majority of the population will live exceed the age of 80 in the developed regions. Thus, more research should be focused on the osteoporotic fracture prevention in the oldest old (defined as age of 80 or above). Recently, the first hip fracture prediction score for the oldest old was developed by the Hong Kong Osteoporosis Study, such prediction score may help to identify oldest old who are at high risk of fracture [6].

Another important data reported in the study of Hong and Han [4] was the trend of hip fracture-associated mortality. It was reported that the mortality rate after hip fracture decreased by 10% and increased by 13% in women and men, respectively. Osteoporosis is often under-diagnosed in men, probably due to a lower incidence of hip fracture is observed in men. However, the absolute number of hip fracture is indeed comparable between men and women in Korea [4], as well as other countries [7]. It is well documented that hip fracture associated mortality rate in men observed in the study could be due to the fact that older men usually know little about osteoporosis [8]. Even healthcare professionals caring for patients with fragility fracture were reported to have limited knowledge on osteoporosis and fracture [9]. Thus, more education should be done to promote the awareness of osteoporosis not only among carers and patients, but also among healthcare professionals.

Conflicts of interest
No potential conflict of interest relevant to this article was reported. ORCID. Ching-Lung Cheung: 0000-0002-6233-9144.

References

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