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Clinical Performance of Dyract AP Compomer – 2-year results. Y. LUO*, E.C.M. LO, D.T.S. FANG, R.J. SMALES, S.H.Y. WEI (Faculty of Dentistry, The University of Hong Kong, Hong Kong)

The aim of this study is to evaluate the clinical performance of a compomer restorative system, Dyract AP placed in combination with Non-Rinse Conditioner and Prime&Bond NT (Dentsply DeTrey, Konstanz, Germany) in permanent posterior teeth. Fifty Class II and 41 Class I restorations were placed in 39 patients. The restorations were evaluated directly at baseline and after 6, 12 and 24 months using the USPHS-Ryge criteria. Clinical photographs, polyvinylsiloxane impressions and bitewing radiographs of each restoration were taken for indirect assessments. After 2 years, all 76 evaluated restorations were in situ. Color matching ability and surface characteristics were excellent. A gradual deterioration in marginal discoloration and marginal integrity was noted. The percentages of Alfa score for each criterion were: color match 96.1%, marginal discoloration 50.0%, marginal integrity 26.3%, anatomic form 97.4% and surface texture 94.7%. The mean wear values were 18.5 μ m, 35.7 μ m and 55.9 μ m after 6, 12 and 24 months respectively. There was no statistically significant difference relating to each criterion between Class I and II restorations (Fisher's exact test, $p > 0.05$). Five restorations (6.6%) exhibited partial fracture or recurrent caries. In conclusion, the good clinical performance, especially the improved wear resistance, suggests that the Dyract AP restorative system can be used satisfactorily as a direct tooth-colored restorative in stress-bearing areas. Supported in part by a grant from the University of Hong Kong, and a grant from Dentsply DeTrey.

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