Resin-bonded bridges (RBBs) were first described in the 1970s and gradually gained acceptance by clinicians as an alternative fixed restorative treatment option for the replacement of a missing tooth. Rochette in 1973 was the first person to describe the design feature of these prostheses. The main advantage of RBBs is the fixed restoration of missing teeth with conservative preparation of abutment teeth. The dissolution of the exposed cement was one of the main disadvantages of the perforated retainers which causes leakage underneath the retainers and debonding of the restoration. Due to tremendous development in preparation designs and bonding techniques of RBBs, the success rate of these bridges enhanced in recent years.

Balasubramaniam had done a systematic review to evaluate the survival rate of RBBs and found that survival rate in 5 years of follow-up to be 83.6% and in 10 years as 64.9%. The most common type of failure found was the debonding of the prosthesis. Resin-bonded bridges placed in the anterior region were found to be more retentive than posterior and RBBs in the maxilla were found to be more retentive than bridges placed in the mandible. Alraheam et al. had compared RBBs fabricated from different materials in their systematic review. In 5 years of follow-up, they found a success rate of 88.18% for the metal framework RBBs and 84.41% for the non-metal framework RBBs. Debonding of the framework and fracture of the retainer of the adhesive frameworks were the main technical complications reported in the studies, 82 and 15%, respectively.

For several years, all-ceramic RBBs have been considered an esthetic treatment option for the replacement of missing teeth in the anterior region. With continued developments in technology, various ceramic materials have been used to fabricate all-ceramic RBBs including zirconia, glass-reinforced, alumina-based ceramics, and lithium disilicate glass-ceramics. Shahdad et al. evaluated the clinical longevity of SB adhesively bonded single unit yttria-stabilized tetragonal zirconia polycrystalline (Y-TZP) ceramic cantilever RBBs. Forty-eight restorations remain in service with a survival rate of 82.7% in a mean follow-up of 36.2 months.

Thoma et al. in their systematic review assessed the 5- and 10-year survival of RBBs. They found a survival rate of 86.7–94.4% after 5 years and 82.9% after 10 years. A significantly higher survival rate was reported for RBBs with the zirconia framework compared with RBBs from other materials. For metal–ceramic RBBs, the annual debonding rate was 2.89%, for metal-acrylic, it was 4.17%, for fiber-reinforced composite RBBs, it was 1.72%, and for zirconia framework RBBs, it was 1.42%. Resin-bonded bridges with one retainer had a significantly higher survival rate and a lower debonding rate compared with RBBs retained by two or more retainers. In another systematic review, Tezulas et al. also found that cantilever design all-ceramic RBBs are more successful than the two-retainer design in the anterior region.

Although RBBs is considered to be a minimally invasive treatment option compared with a conventional fixed dental prosthesis but technical complications such as debonding is still frequent. Recent research favored all-ceramic anterior RBBs with a single-retainer design. Application of RBBs in the posterior region of the jaws needs further research with newer materials and techniques for improved treatment outcomes.

**References**