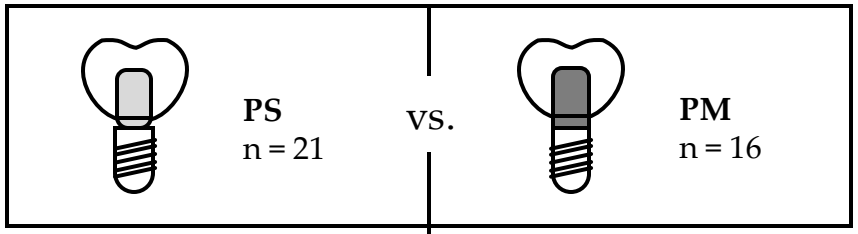
The Influence of Platform Switching and Platform Matching on Marginal Bone Loss in Immediately Inserted Dental Implants: A Retrospective Clinical Study

Effects of platform switching (PS) and platform matching (PM) on marginal bone loss (MBL) and clinical parameters in immediately inserted dental implants

Methods



Retrospective design

- Clinical outcomes
- X-ray analysis: MBL [mm] on mesial (m) and distal (d) side
- Regression models of total bone loss

Results

- No differences in probing depths, plaque index, or overall implant success
- MBL PS: 0.26 (m) and 0.68 (d); MBL PM: 0.75 (m) and 0.53 (d)
- Lower current mesial bone levels in PS group (*p.* = 0.044)
- PM implants were associated with greater mesial bone loss (*p.* = 0.039)

Despite both systems being viable options, platform switching may offer advantages in preserving peri-implant bone in immediately inserted dental implants.