

Potential Risk Factors and their association with Peri-Implantitis

This checklist summarizes the potential risk factors and examples of references related to evidence of their association with peri-implantitis. The strength of risk (low, moderate, and high) and the strength of evidence is indicated for the various patient-, implant site-, and prosthesis-related factors.

| Risk Factor/Indicator | Low | Moderate | High | Supporting evidence Reference examples |
|------------------------------------|-------------------|--|-------------------|---|
| Patient | | | | |
| Periodontitis history | No | | Yes | Derks 2016, Kordbacheh Changi 2019, Karoussis 2003, Ferreira 2006, Rocuzzo 2010, Costa 2012 |
| Bone loss/Age | < 0.5 | > 0.5 - 1.0 | > 1.0 | Kordbacheh Changi 2019, Roos-Jansaker 2006 |
| Periodontitis susceptibility | Stage 1 Grade A/B | Stage 2 Grade A/B | Stage 3 Grade A/C | Cho-Yo Lee 2012, Derks 2016, Kordbacheh Changi 2019 |
| BOP% | < 10% | 10%-25% | > 25% | Roos-Jansaker 2006, Luterbacher 2000, Costa 2012, Vignoletti 2019 |
| N PD>5 mm | ≤ 2 | 3-6 | > 6 | Pjetursson 2012, Cho-Yan Lee 2012, Ferreira 2006, Koldslund 2011, Costa 2012 |
| Supportive care SPT | Compliant | ≤ 6 months | Casual/No | Costa 2012, Rocuzzo 2010, 2012, Monje 2017, Ferreira 2006, Aguirre-Zorzano 2015 |
| Medical status | Healthy | | Compromised | Ferreira 2006, Renvert 2014 |
| Tobacco smoking | 0 | 1-19 | ≥ 20 cig | Roos-Jansaker 2006, Rinke 2011, Schwarz 2017 |
| Prosthesis | | | | |
| Cleanability | Good | Poor fit but supramucosal restorative margin | No access | Kordbacheh Changi 2019, Serino & Ström 2009, Heitz-Mayfield 2012, Katafuchi 2018 |
| Fit/Design | Well-fitting | | Ill-fitting | Kordbacheh Changi 2019 |
| Submucosal excess cement | Screw-retained | | Cement residue | Kordbacheh Changi 2019, Linkevicius 2013, Wilson 2009, Korsch 2015 |
| Prosthetic margin to bone crest mm | Soft-tissue level | 1.5 mm | < 1.5 mm | Derks 2016 |
| Site | | | | |
| Keratinised mucosa | Adequate (≥ 2 mm) | Minimal (< 2 mm) | Absence | Souza 2016, Ladwein 2015, Rocuzzo 2016 |

This Checklist is taken from: L.J.A. Heitz-Mayfield. Risks for Peri-Implant Diseases. ITI Treatment Guide, Vol. 13: Chapter 6; Pg 36. Quintessence Publishing: Berlin; 2022.

