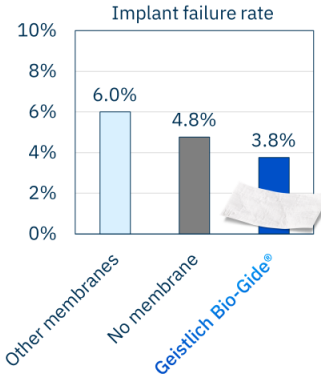
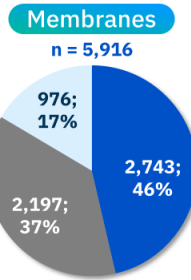
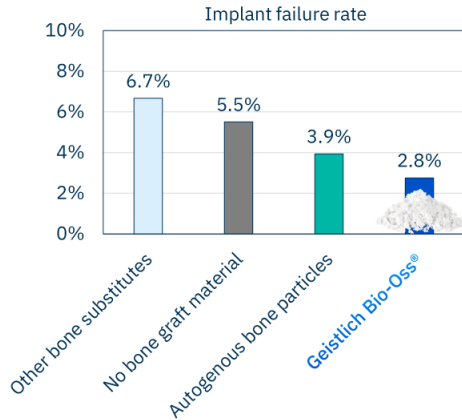
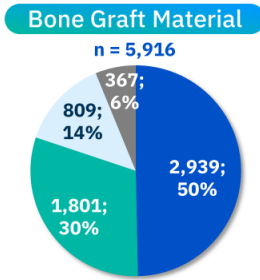
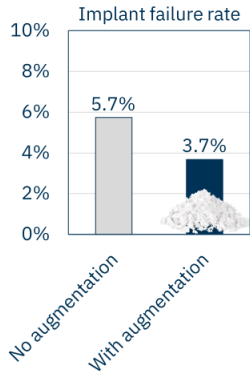
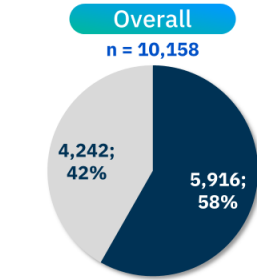


Minor Bone Augmentation

10,158 implants in 3,095 patients up to 20.2 years: implant survival in augmented bone is slightly better than in native bone



Key Message

The retrospective analysis shows that implants inserted in bone that was NOT augmented with Geistlich Bio-Oss® have a higher long-term implant failure rate.



Study results

- Overall failure rate without bone augmentation is 5.7% (=94.3% success rate) compared to 3.7% (=96.3% success rate) with bone augmentation
 ⇒ **on average, augmented bone is slightly more stable long-term than bone that was not augmented when the implant was placed**
- Bone graft materials: Geistlich Bio-Oss® resulted in significantly lower number of implant losses, whereas the use of non-Geistlich Bio-Oss® bone graft materials led to higher rates of implant failure
 ⇒ **Geistlich Bio-Oss® performs better than autogenous bone particles**
- Membranes: fewest implants were lost when using Geistlich Bio-Gide®, while the highest number of implants were lost when other membranes were used
 ⇒ **the use of a membrane is essential, and the most predictable outcome is achieved with Geistlich Bio-Gide®**



Retrospective analysis



10,158 implants, 3 study centers



up to 20.2 years



Comparison of long-term stability up to 20.2 years after insertion of implants placed in augmented or non-augmented sites