Atlantis® patient-specific abutments

Atlantis CAD/CAM abutments are patient-specific products for cement-, screw-, and friction-retained implant restorations. Atlantis abutments are available for all major implant systems, and as part of a streamlined workflow for individually made restorations, Atlantis abutments is a way to bring modern digital design to patients.

Clinical results

The clinical use and predictability of Atlantis abutments has been evaluated in randomized controlled trials\(^1\)\(^-\)\(^12\) and other types of clinical studies\(^13\)\(^-\)\(^25\) and case reports\(^26\)\(^-\)\(^48\), evaluating and reporting on esthetic results for titanium, gold-shaded titanium and zirconia abutments\(^2\)\(^,\)\(^49\)\(^-\)\(^60\). There is evidence of re-establishment and maintenance of the papilla\(^61\)\(^-\)\(^63\), increased pink esthetic score\(^6\),\(^9\),\(^53\),\(^57\),\(^64\),\(^65\) and favorable soft tissue color\(^66\),\(^67\). Furthermore, a number of articles elaborate on the influence of an optimal emergence profile with the right soft tissue contour\(^68\)\(^-\)\(^71\).

The outcome relies on the patented building blocks in the BioDesign Matrix, featuring:

<table>
<thead>
<tr>
<th>Virtual Atlantis Design (VAD)</th>
<th>Specialized software used to design the abutment, resulting in high precision and a natural esthetic result(^72)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Shape</td>
<td>For support and retention of the final restoration</td>
</tr>
<tr>
<td>Soft-tissue Adapt</td>
<td>Individualized emergence profile for soft tissue stability(^63),(^73) and adaptation to the finished crown</td>
</tr>
<tr>
<td>Custom Connect</td>
<td>Reliable fit when combined with the chosen of implant system(^9),(^63),(^57)</td>
</tr>
</tbody>
</table>

Scientific literature on Atlantis abutments have shown several benefits for both clinicians and patients, such as:

- Reduced chairtime\(^74\) by combining the treatment with digital impression taking\(^75\),\(^76\)
- High patient satisfaction\(^5\),\(^67\),\(^77\) with digital impression taking\(^75\)
- Cost-effective and simplified treatment procedures\(^70\),\(^74\),\(^78\) with digital planning and surgical guides\(^5\),\(^79\),\(^81\)

Conclusion

Atlantis abutments has been shown to give predictable esthetic results on a multitude of implant platforms. In a digital implant workflow together with digital impression taking and guided surgery, Atlantis abutments can deliver reduced chair time and cost-effective treatment procedures.
References


