

# Simplant<sup>®</sup>

## —accuracy with guided implant surgery

### What is Simplant?

- The most used software system for 3D planning of implant placement in clinical studies<sup>1</sup>
- Individualized 3D solution covering all steps from implant planning to final prosthetic delivery
- Custom-made Simplant guides connect the digital plan with the surgical intervention
- Compatible with Astra Tech Implant System, DS OmniTaper Implant system, DS PrimeTaper Implant System, Ankylos and Xive

### Confident implant placement

- Higher accuracy for implant placement with Simplant Guide compared to non-guided surgery, in clinical<sup>2-7</sup> and experimental studies<sup>8-10</sup>
- Published data indicate higher accuracy in anterior positions<sup>2</sup>, in the mandible<sup>9</sup>, in thin mucosa (e.g. non-smokers)<sup>11,12</sup>, in dense bone<sup>13,14</sup>, in tooth-supported guides<sup>15</sup> and for mucosa-supported guides<sup>16,17</sup>
- Higher accuracy has been presented when optimizing tolerances and length of the sleeves in the guide<sup>18-21</sup>, when using shorter implants<sup>22,23</sup>, and when anchoring the guide rigidly to the bone<sup>13,16</sup>

Twenty-four studies (16 clinical<sup>2, 4, 12, 14, 16, 17, 22, 24-32</sup>, 8 experimental<sup>8-10, 23, 33-36</sup>) have been evaluating accuracy between planned and actual implant positions when using Simplant Guide. No study reported any adverse events or risks when using the guides. Equivalent or better performance for Simplant Guide than competitors are reported in clinical<sup>16, 24, 37, 38</sup> and experimental studies<sup>21, 23, 34-36, 39</sup>, exception for one study<sup>40</sup>.

### Conclusion

The published literature supports the use of the Simplant Guide for predictable implant surgery with:

- Higher accuracy compared to freehand surgery<sup>2-5, 7-10</sup>
- Safe and predictable surgery can be employed in all locations in the mouth<sup>1, 3, 11, 17-27</sup>
- Minimally invasive treatment (e.g. flapless surgery) is possible<sup>19, 31, 41</sup>
- Reduced chair time can be achieved<sup>42</sup>

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