Webinar feedback - Webinar 2 From Intraoral Scanner to Digital Implant Model

Question 1:
Is the outer diameter configuration of the Elos PMA analog the same for every implant system?

Answer:
No, we cannot pool all the different diameters to just one single outer PMA geometry. This means, different PMA have different diameters, but we pool similar platform sizes to the same outer diameter geometry.

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Question 2:
In exocad if we use PMA analogs to build the model and then use MA analogs to design the crown, will there be a difference?

Answer:
No, both MA and PMA are aligned to the same coordinate system and are also referring to the same Scanbody. Hence, there is no difference, you can go with that.

If this question is referring to the placeholder offset in the modelbuilder / modelcreator workflow, we recommend to start with the provided offset described in the printing guide brochures on our website printing guides on elos dental.com

If your printer is not pictured in these brochures, you should start with zero and than go up in 10-micron steps to 50 microns. Usually, a minus offset is not necessary, as the dental printers usually work with fluid resins which will always shrink.

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Question 3:
Would you bond a bridge on the model if you use the screws from underneath? Does that increase the accuracy to better than in bridge bonding?

Answer:
No, model bonding always takes the inaccuracies of the model manufacturing process with you, even you use the screws underneath. As the deviations in a printed model are in general still higher than in the plaster model, you always have higher deviations by bonding on a printed model.

The PMA screw can create better stability of the PMA in the model in relation to the individual PMA (if the PMA sits a little looser in the model), but the screw cannot eliminate the deviations between the implants, since the overall deviation of the model is responsible for this.

Question 4:
To achieve an accurate model what do you think the minimum wall thickness should be?

Answer:
There are too many factors influencing the accuracy of a printed model that it is not possible to do a general statement without taking the differences of the hardware, resin and processes (shrinking factors, post-processing, light exposure intensity, light exposure time etc.) into account.

Some of the printer provider recommend a full model instead of a hollow one, especially for implant models which might be a reasonable argument. When using a hollow model, I would not go under 2.5mm wall thickness, but I recommend to create a full model.

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Question 5:
The elos scan body can be reused. can pma be reused?

Answer:
The analog is intended for single use only. Repeated use of the analogue can lead to a loss of function.

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Question 6:

What is the sequence of bonding for the cementation of hybrid bases using the bench top technique for a case that has several implants? starting at the most posterior and moving forward or starting at the posterior then doing the most anterior then the implants in the middle. does the sequence matter?

Answer:

I would refrain from bonding the most anterior and most posterior abutments first, but instead work from posterior to anterior. The order is secondary as long as the milled cavities in the bridge or bar construction have a good individual fit. But starting from posterior and moving forward gives you more control.

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Question 7:
Is elos adding anymore implant systems to their library?

Answer:
Yes, we will increase our platform availability continuously. You can expect coming 2 new implant systems in the near future.

Please find updated overviews on our website www.elosdental.com.

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