



Model Based Surgical Guide. Frequently Asked Questions.

Special thanks to Michael Raven DMD, with his help in developing this protocol.

1) Which 3D printer would you recommend for printing the models?

The 3D printer market is changing and developing very quickly. Currently our recommendation is the Pegasus Touch (by FSL3D) printer as it seems to have the best combination of price and printing resolution. <http://fsl3d.com/>

2) I don't have a 3D printer where can I print the model? How much does it cost?

You can have the model printed at printing service center. Once such center that we can recommend is 3D Additive Fabrication <http://www.3daddfab.com> (1-720-545-2544).

3D Additive Fabrication can print using a VeroWhitePlus material, the cost is \$25 and turnaround time is around 3 days. Please contact them for further details.

3) Which material should I use to create the Surgical Template?

We recommend the use of a thermoplastic stent or a suck down. Mold some plastic around the guide tube before inserting it onto the post. Extend the plastic around the adjacent teeth. Allow to cool and then remove. If it locks on, heat the plastic again to remove. This should produce a guide with a good snap fit. Clear any excess plastic from around the top of the metal tube and then verify the fit on your master stone model.

4) How do I convert my prepared treatment plan into the model with posts ready for printing?

There is a step by step printed protocol as well as a video training tutorial located on the Blue Sky Bio website at <http://blueskybio.com/pages/model-based-surgical-guide-protocol> .

5) How much does it cost for me to export the model from Blue Sky Plan as an STL ready for printing? How do I get the functionality?

The add on module to enable export from Blue Sky Plan to an STL file ready for printing costs between \$10-\$20 per case depending on the number of exports bought in the package. Full pricing can be seen, and orders can be placed at <https://blueskybio.com/store/stl-case-export>.

It is a per case fee and multiple exports to STL from the same case is still only considered a single case.



After placing the order you will be issued a new license code that activates the export functionality and automatically counts (and displays) the number of exports remaining.

6) Where can I purchase the metal guide tubes?

The metal cylinders can be ordered from the Blue Sky Bio tube store. We have over 60 different tubes in stock to accommodate all types of guided surgical kits.

7) I don't have a guided surgical kit, should I buy one?

No. Blue Sky Bio has a direct cut, keyless guided surgical solution. It completely removes the needs for keys / handles, simplifies the surgery and removes the need to buy a guided surgical kit.

Full details can be seen at <https://blueskybio.com/pages/bio-cut> .

8) Why am I printing the model instead of printing the surgical guide directly?

Printing a model requires the use of a printed material that is approved by the FDA to be put into a patient's mouth. Currently, printers that can print with such a material costs upwards of \$45,000. Printing the model with the posts and then creating a surgical guide based on the model enables the user of a less expensive printing will benefiting from the accuracy of computer guided surgery.

9) I still have questions. Who can I ask?

Please contact us at Blue Sky Bio. We are happy to help. Email at plan@blueskybio.com or call 312-423-6529.