The first step in a surgical simulation is the creation of a model that incorporates hard and soft structures in a 3D model.

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3D printing of orthognathic models

The frontal plane is expressed in the horizontal facial thirds and vertical facial fifths as well. It pinpoints the verticality of the face: long face - short face. Furthermore, the frontal plane is mandatory for the study of facial asymmetries. Orthognathic surgery is an excellent way to correct those developmental abnormalities.

A surgical dress rehearsal for surgery

Physical models of complex bony structures can be used for surgical skills training. Both design and validation of 3D printed complex bone models with internal anatomic fidelity are key factors for detailed surgical training and rehearsal.

A plethora of anecdotal evidence suggests that accurate surgical models can be extremely useful in cutting surgery times and educating new doctors. And, with 3D printing, these models can be made to reflect a patient’s anatomy exactly.