**Folder content**

*2503\_PelvFloor\_prez.pptx* … short presentation of our activities

**Subfolder** *Papers*

A selection of the most important papers related to our model and/or material properties to be used

**Subfolder** *Models*

**Subsubfolder** *Simplified*

This is the simplified model that I showed you during our call. This is good for preliminary testing. As it is prepared for simulation, however, the material properties are obsolete and you should use them from the papers above.

*BabyBallmm.fs2* … this is the model for FEBio.

*BabyBallmmHead.stl*, *BabyBallmmTissue2D.stl* … these are the 2 parts the model is based (meshed) on.

**Subsubfolder** *Detailed*

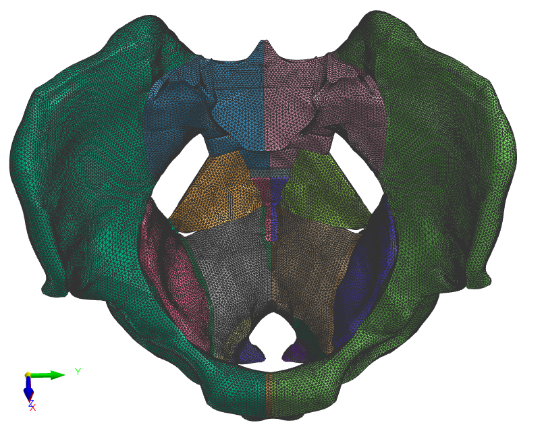
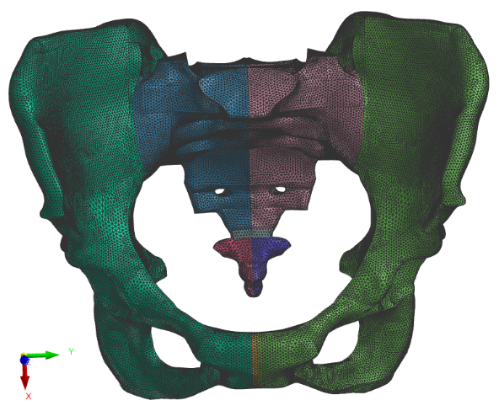
We have discussed with Hanka, that you could directly try to use the detailed model, just to take the pelvis, the muscles and ligaments od of pelvic floor (LAM) (those 2 parts correspond to the simplified model, but already in real shape) and run the simulation on it. When succeeded, you can add the perineal parts from the folder, all is provided in the STL format.

Parts to be used for the preliminary study:

Pelvis (Rigid body): *PelvicBone\_L.stl, PelvicBone\_R.stl, ISjoint\_L.stl, ISjoint\_R.stl, Sacrum\_L.stl, Sacrum\_R.stl, Coccyx\_L.stl, Coccyx\_R.stl, Symphysis\_L.stl, Symphysis\_R.stl*

Muscles: *Coccygeus\_L.stl, Coccygeus\_R.stl, Obturator\_L.stl, Obturator\_R.stl, Iliococcygeus\_L.stl, Iliococcygeus\_R.stl, Puborectal\_L.stl, Puborectal\_R.stl, Pubovisceral\_L.stl, Pubovisceral\_R.stl*

Ligaments: *AnococcygLig\_L.stl, AnococcygLig\_R.stl, ArcusTendineusLA\_L.stl, ArcusTendineusLA\_R.stl*



**Subsubfolder** *Head-sphere-planes*

Contains a sphere model substituting for the fetal head for the preliminary study, pelvic planes and coordinates defining the curve of Carus. The head COG should follow this curve. The curve is defined in the *CarusCurve.txt* by spatial coordinates (x, y, z) of the sphere COG dependent on scaled time. Pelvic planes are only auxiliary and do not play any role in the calculation.

**Subsubfolder** *FetalHead*

Contains the model of the fetal head. The head COG will follow the same trajectory as the sphere. It may be necessary to slightly adjust the trajectory (we will be resposible for that). Moreover, the Cardinal movements of the head should be prescribed. It means specific rotations about the biparietal and menthovertical diameters of the head. We will discuss and explain later.