



Supplementary material

Manuscript ID: ijerph-612404

Title: Simulation of Air Puff Tonometry Test Using Arbitrary Lagrangian-Eulerian (ALE) Deforming Mesh for Corneal Material Characterisation

Authors: Osama Maklad *, Ashkan Eliasy, Kai-Jung Chen, Vassilios Theofilis, Ahmed Elsheikh



Mesh independence study

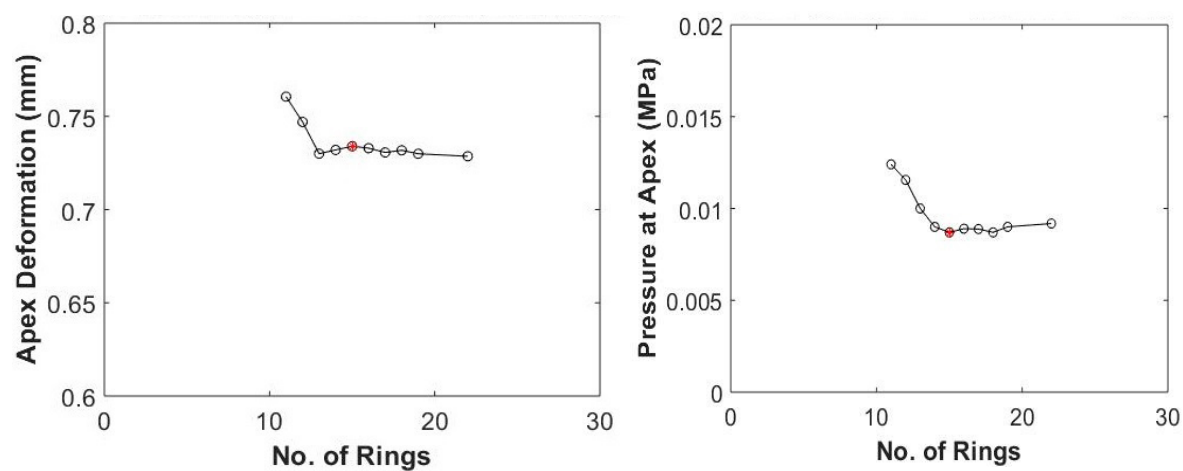


Figure S1. Mesh dependence study on both domains of the model, showing the apex deformation from the eye model and pressure on apex from the CFD model.



CorVis-ST internal CFD model

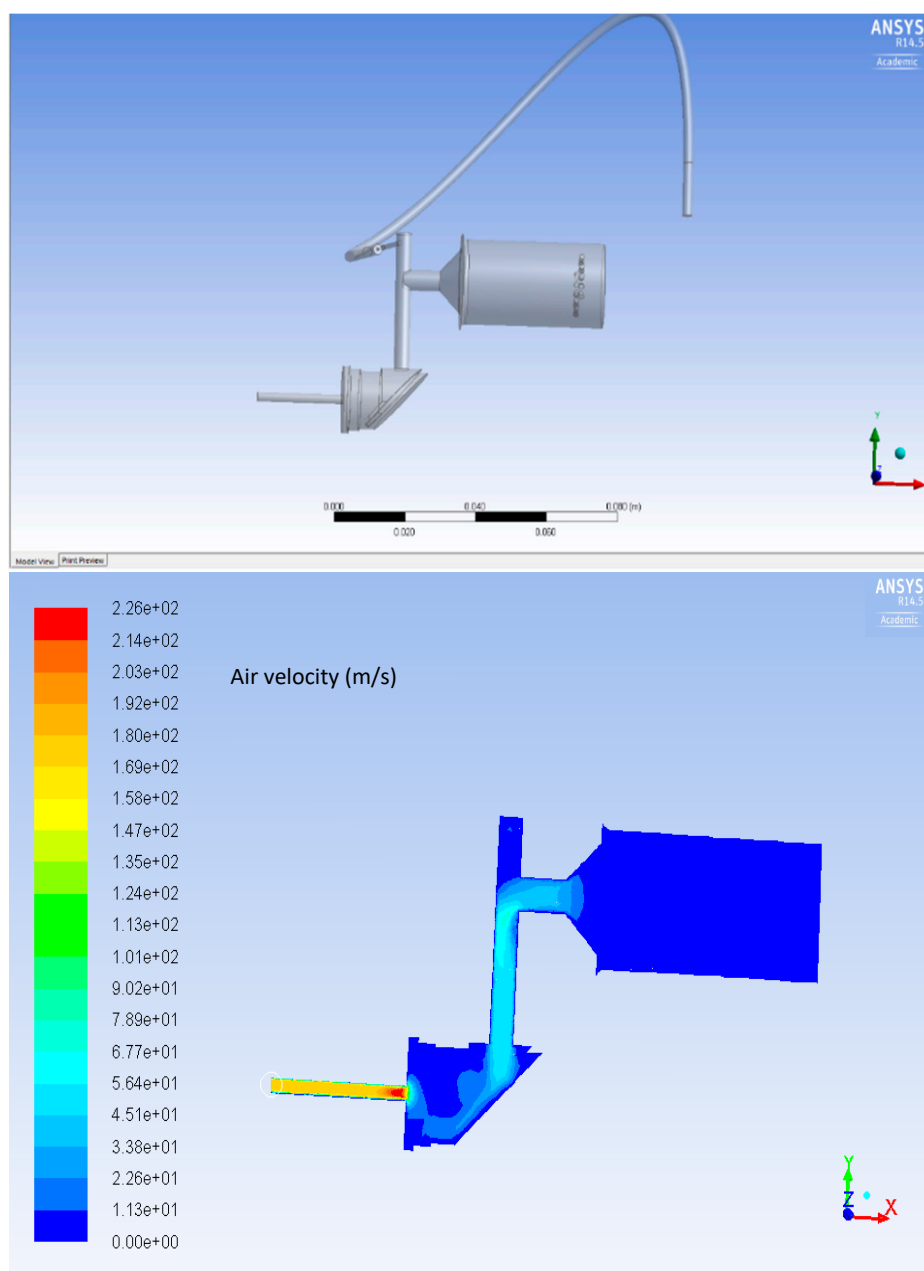


Figure S2. CorVis-ST CAD drawing as supplied from the manufacturer and a CFD solution of the air velocity inside the device starting from the piston at 2m/s ending at the nozzle at 168 m/s