A Novel Approach to Clinical Teaching in Pursuit to Enhance Patient Safety

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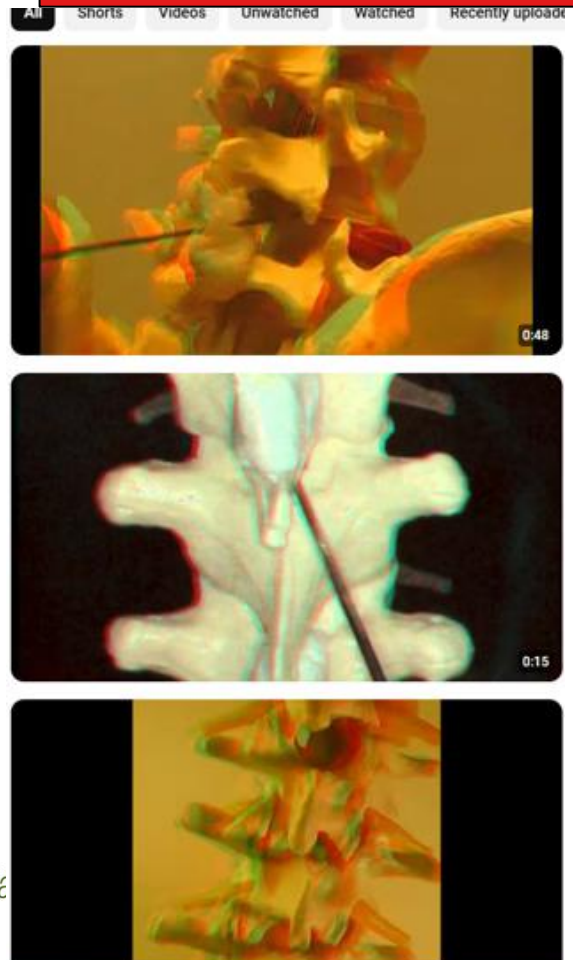
Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD

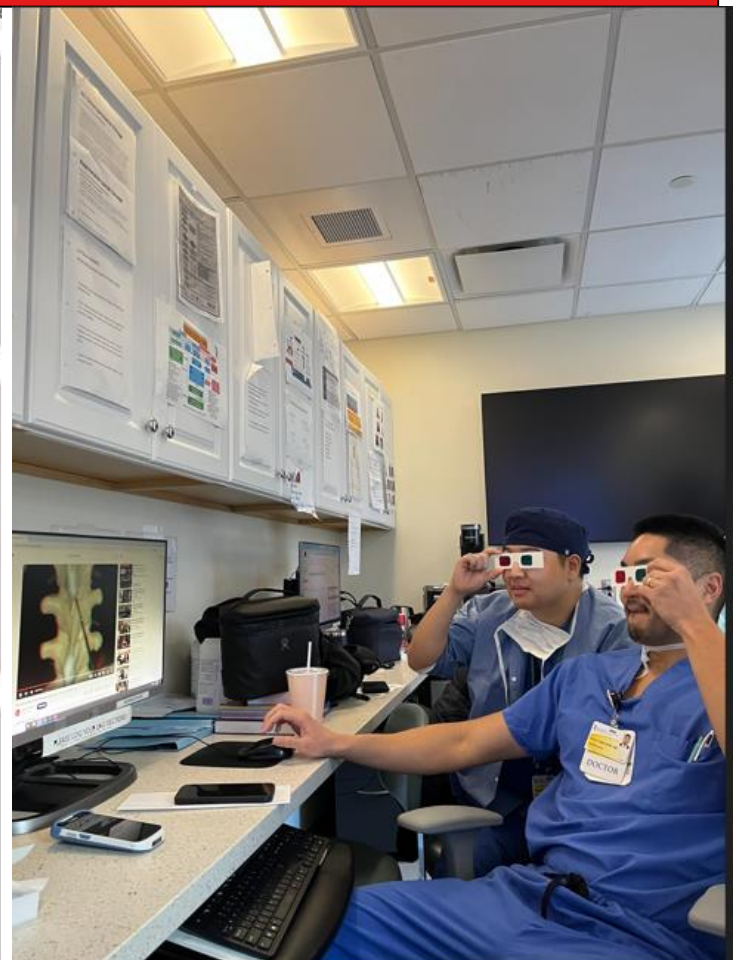
Background

- ASA Scientific Exhibits –3D understanding epidural placement (youtube.com … Kodali spine)
- Anaglyph or polarized eyeglasses

- Difficult epidural placement
  -Scoliosis
    -The rotational component of the vertebra
- Current technology of 3-D printing could help

Youtube 3D – 'Kodali spine'





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Methodology

3D model vertebrae are available

Chitubox™

Stalk up the vertebrae – scoliosis as well as rotational

Support system to the model

3D printer Eagloo etc. Uses liquid resin – 6 hours

Curing with UV light

SOAP Society for Obstetric Anesthesia and Perinatology

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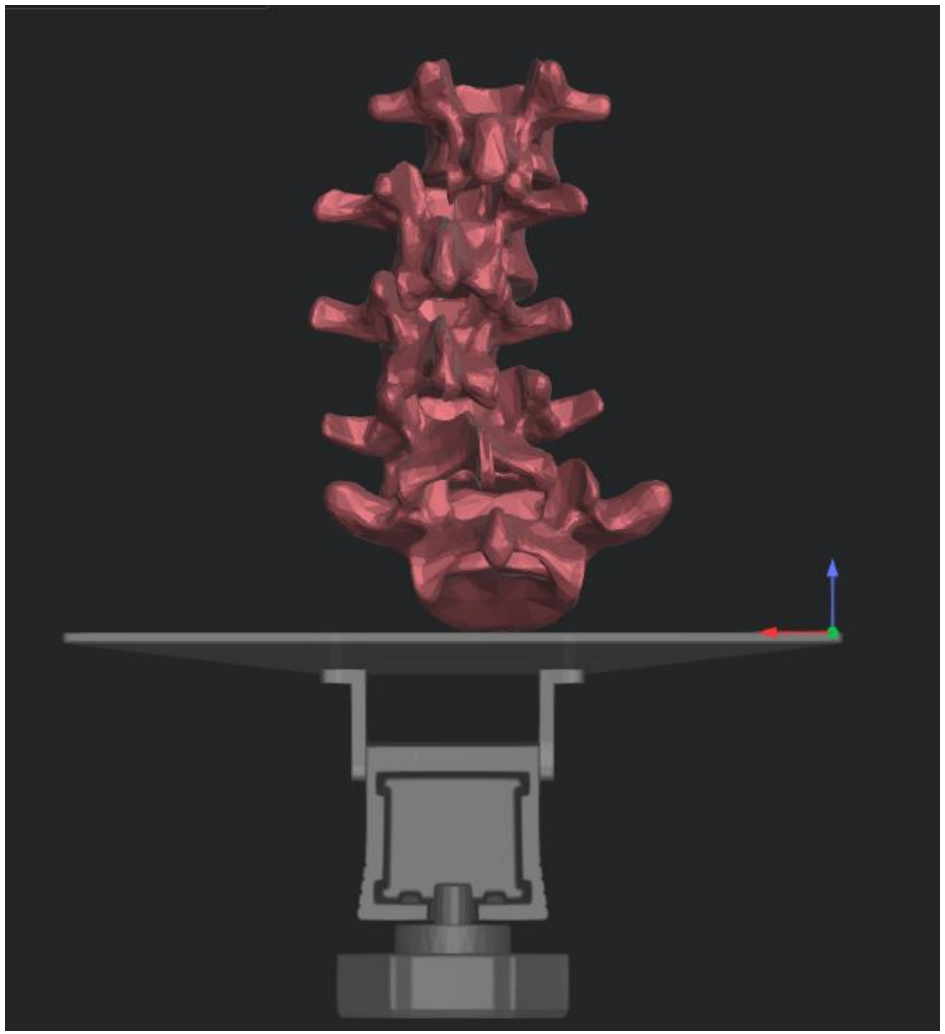

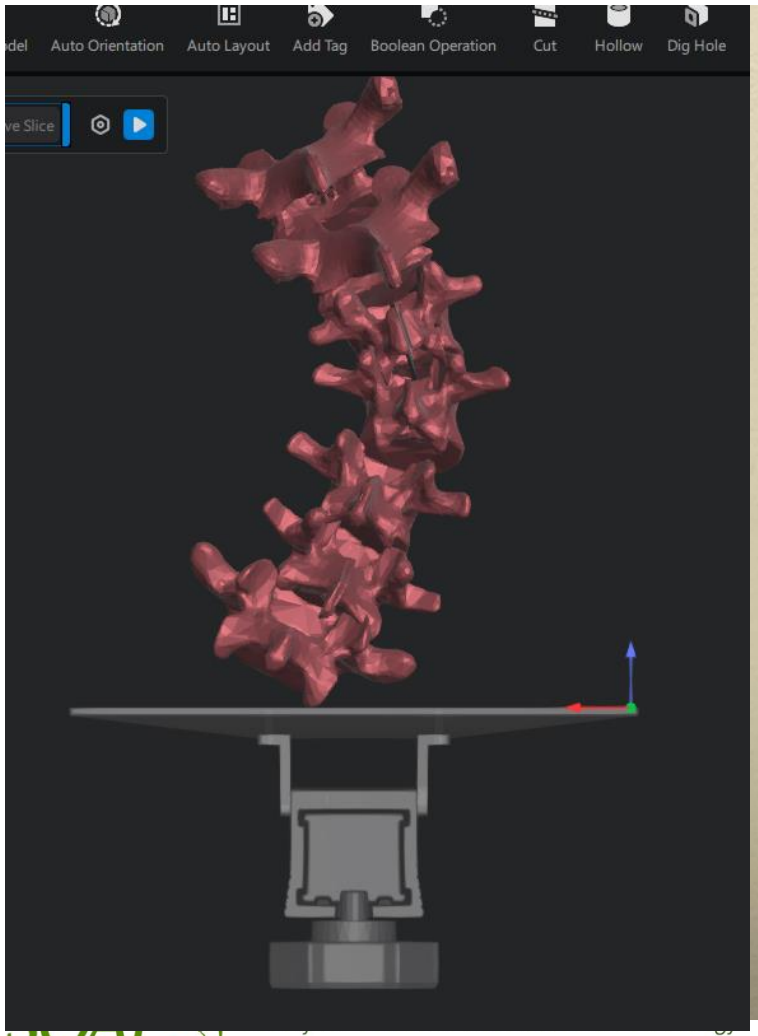

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- Clinicians know the concept
- if technology is learned – Combination helps to devise models FOR TEACHING
- Scoliosis and lordosis of pregnancy are some examples

- FUTURE CLINICAL APPLICATION:
- CT scoliosis ⟹ 3 D image
- ⟹ 3D Printing