

CHANGES IN STRESS DISTRIBUTION OF ORTHODONTIC MINISCREW AND SURROUNDING BONE AT DIFFERENT ANGLES AND HEIGHTS - FEM STUDY.

AIM

- To determine changes in stress distribution on the supporting bone and miniscrew implant at different alveolar crestal heights in different angulations using Finite Element Analysis

MATERIALS

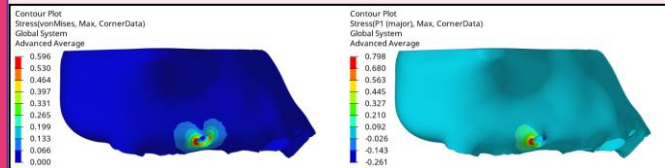
- Workstation computer
- Spiral C.T Scan Machine
- Software's used:
 - ✓ MIMICS 8.11
 - ✓ ANSYS 2017.2
 - ✓ HYPERMESH 2019.0

CONCLUSION

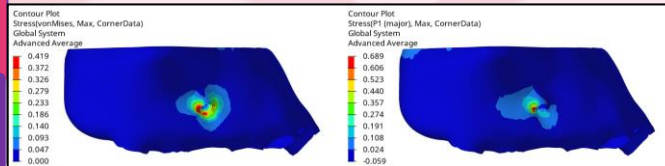
- Maximum stress at the implant head and bone interface in this study for 2mm height and 30°

FEA RESULTS

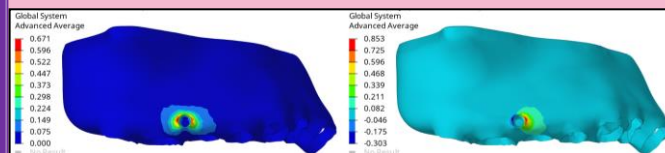
- Implant at 2mm height and 30°



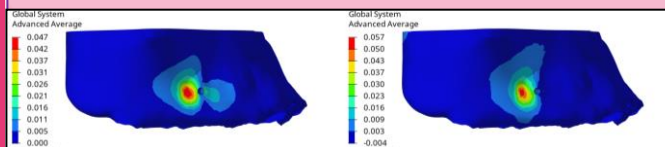
- Implant at 8mm Height and 30°



- Implant at 2mm Height and 90°



- Implant at 8mm Height and 90°



METHODS

