Temporal bone model

was analyzed via a univariate chi-square test.

interaction via a virtual, immersive environment 1 .

1)

Morone PJ, Shah KJ, Hendricks BK, Cohen-Gadol AA. Virtual, 3-Dimensional Temporal Bone Model and Its Educational Value for Neurosurgical Trainees. World Neurosurg. 2019 Feb;122:e1412-e1415. doi: 10.1016/j.wneu.2018.11.074. Epub 2018 Nov 22. PubMed PMID: 30471440.

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The 3D temporal bone model was created with assistance of computer graphic designers and published online. Its educational value as a teaching was tool was assessed by querying 73

neurosurgery residents at 4 institutions and was compared with that of a standard, 2-dimensional (2D) temporal bone resource. Data were collected via a survey, and significance among responses

RESULTS: The survey response rate was 37%. Greater than 90% of residents preferred to study with the 3D model compared with the 2D resource and felt that the 3D model allowed them understand the anatomy more realistically (P = 0.001). Moreover, >90% of residents believed that reviewing the 3D model before an actual surgery could lead to improved operative efficiency and safety (P = 0.001).

CONCLUSIONS: This study demonstrates the utility of a novel, 3D temporal bone model as a teaching tool for neurosurgery residents. The model contains accurate anatomic structures and allows user

