

## CNS PROGRESSIVE GLIOBLASTOMA GUIDELINE UPDATE

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SPEAKS!

### EDITOR'S CHOICE

#### Congress of Neurological Surgeons Systematic Review and Evidence-Based Guidelines on the Management of Progressive Glioblastoma in Adults: Update of the 2014 Guidelines

Isabelle M. Germano, Derek R. Johnson, Hayes H. Patrick, Abigail L. Goodman, Mateo Ziu, D. Ryan Ormond, Jeffrey J. Olson

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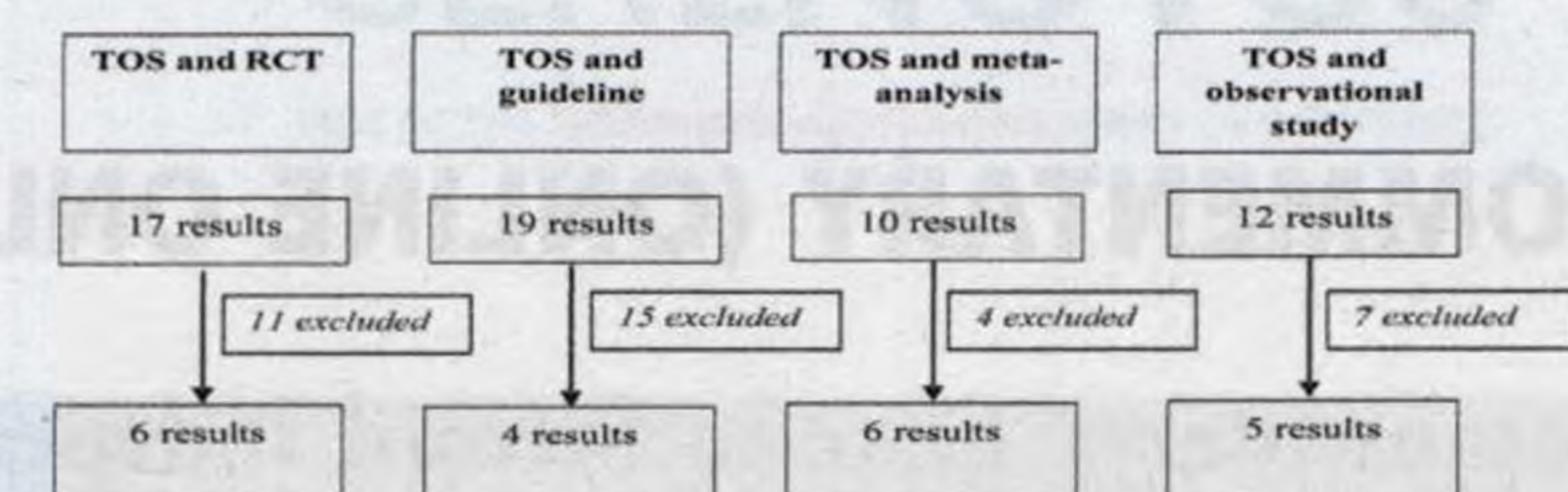
COMMENTS

SDC

### EDITOR'S CHOICE

#### Thoracic Outlet Syndrome Part I: Systematic Review of the Literature and Consensus on Anatomy, Diagnosis, and Classification of Thoracic Outlet Syndrome by the European Association of Neurosurgical Societies' Section of Peripheral Nerve Surgery

Nora Franziska Dengler, Stefano Ferraresi, Shimon Rochkind, Natalia Denisova, Debora Garozzo, Christian Heinen, Ridvan Alimehmeti, Crescenzo Capone, Damiano Giuseppe Barone, Anna Zdunczyk, Maria Teresa Pedro, Gregor Antoniadis, Radek Kaiser, Annie Dubuisson, Thomas Kretschmer, Lukas Rasulic



#### On the Cover

Stimulated Raman histology (SRH) is a rapid, label-free, high-resolution, non-consumptive optical imaging method. SRH combined with artificial intelligence can achieve human-level performance for the intraoperative diagnosis of common brain tumor subtypes. In this figure, we observe discrete class clusters in a t-distributed stochastic neighbor embedding (tSNE) plot of SRH representations from a convolutional neural network (CNN). Each point represents a SRH patch randomly sampled from the testing set. The CNN model is trained using the supervised contrastive loss and achieves a diagnostic accuracy of 96.6%. Read more in "Rapid Automated Analysis of Skull Base Tumor Specimens Using Intraoperative Optical Imaging and Artificial Intelligence" on p. 758.



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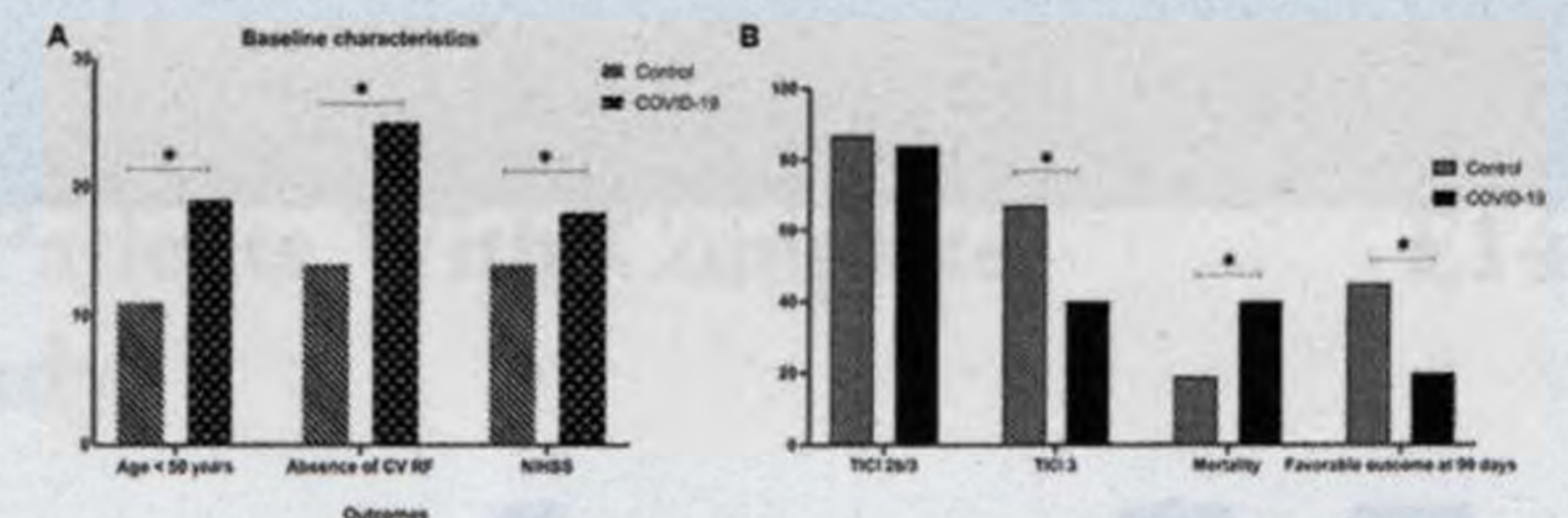
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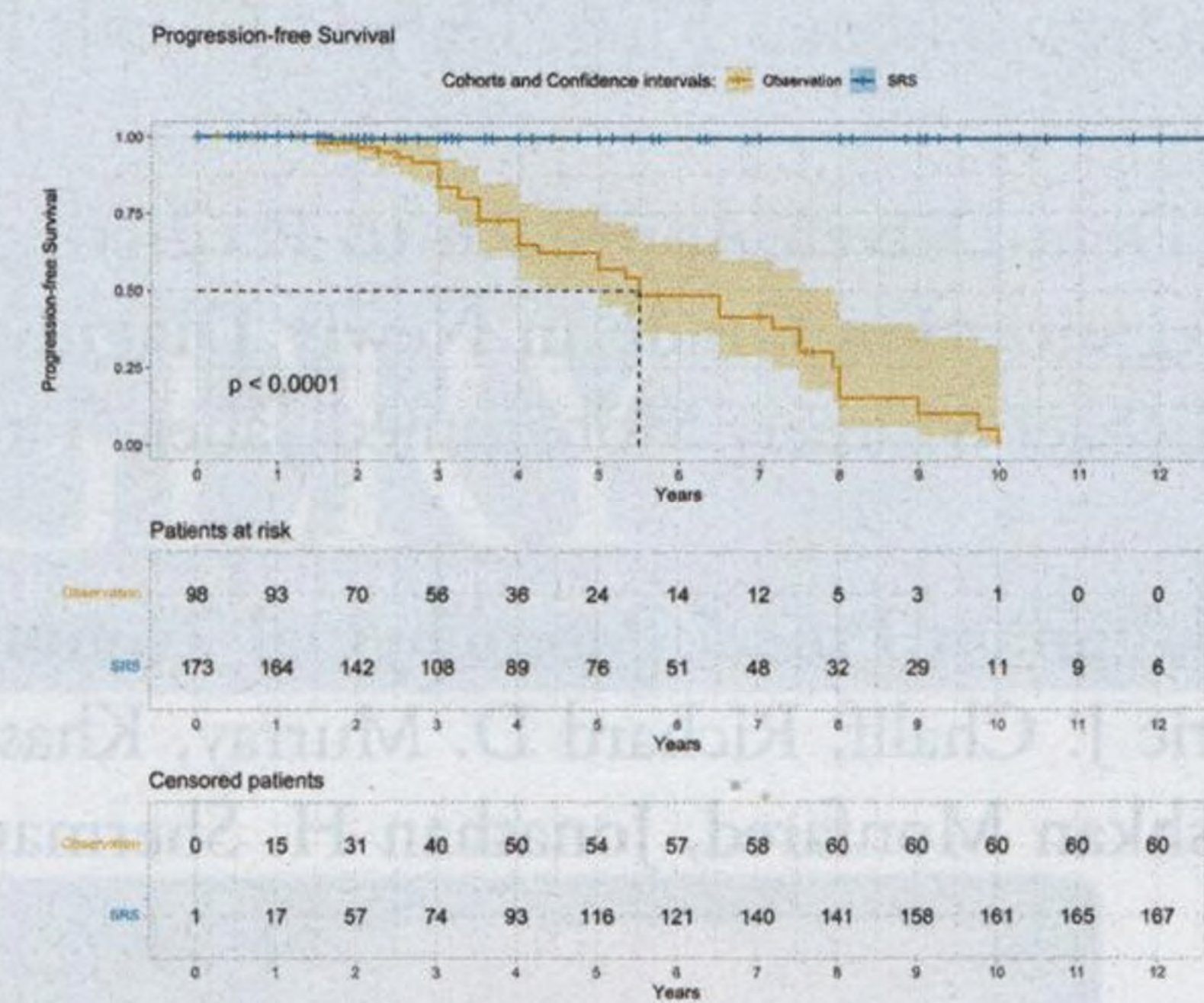
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ABSTRACT+

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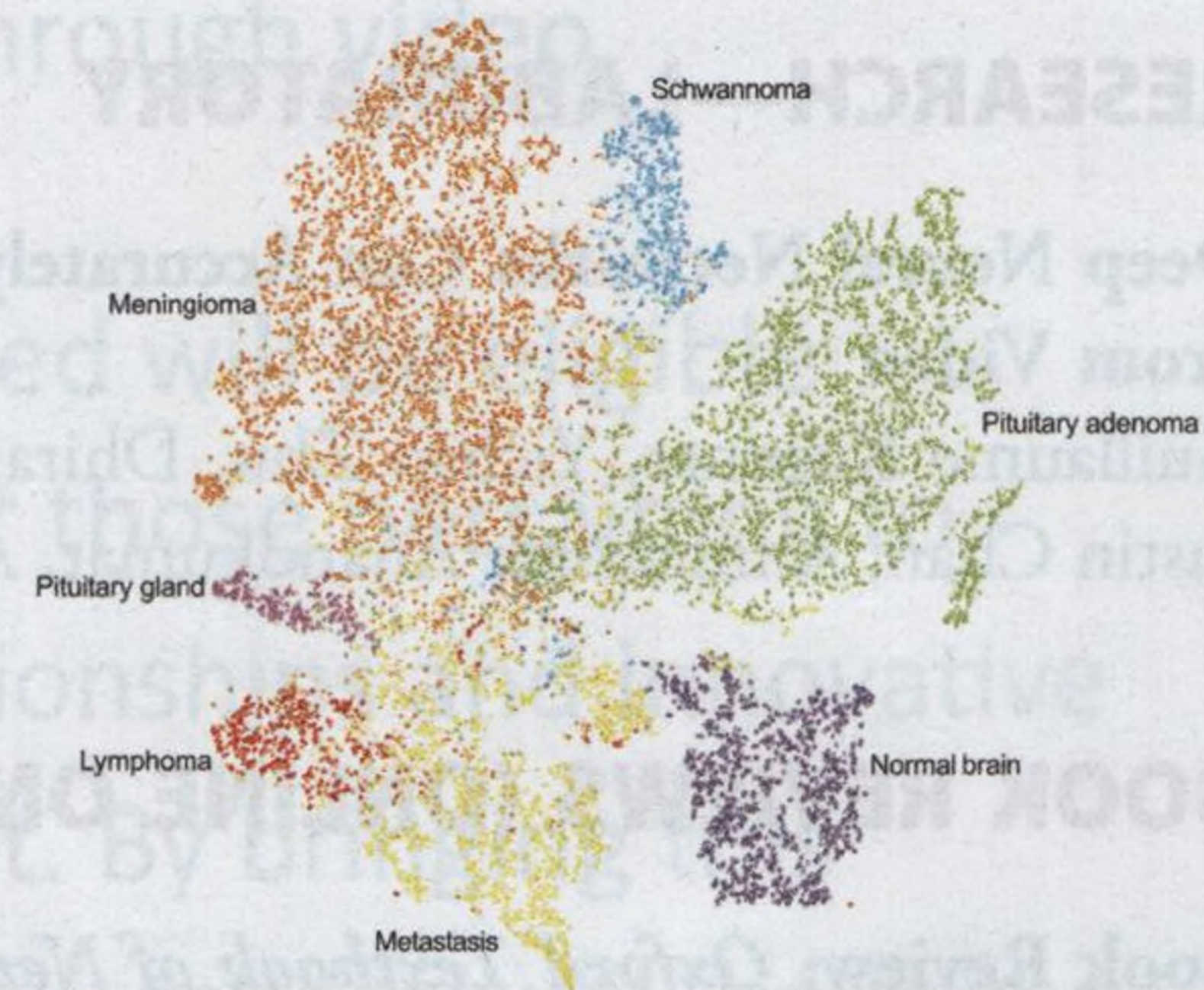
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