Accepted Manuscript

Intraoperative Subcortical Electrical Mapping of the Optic Tract In Awake Surgery Using Virtual Reality Headset

Edouard Mazerand, Marc Le Renard, Sophie Hue, Jean-Michel Lemee, PhD, Evelyne Klinger, PhD, Philippe Menei, PhD

PII: \$1878-8750(16)31019-1

DOI: 10.1016/j.wneu.2016.10.031

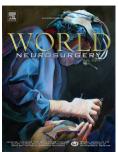
Reference: WNEU 4699

To appear in: World Neurosurgery

Received Date: 22 August 2016
Revised Date: 3 October 2016
Accepted Date: 5 October 2016

Please cite this article as: Mazerand E, Le Renard M, Hue S, Lemee J-M, Klinger E, Menei P, Intraoperative Subcortical Electrical Mapping of the Optic Tract In Awake Surgery Using Virtual Reality Headset, *World Neurosurgery* (2016), doi: 10.1016/j.wneu.2016.10.031.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

TITLE: INTRAOPERATIVE SUBCORTICAL ELECTRICAL MAPPING OF THE OPTIC

TRACT IN AWAKE SURGERY USING VIRTUAL REALITY HEADSET

AUTHORS: Edouard MAZERAND¹, Marc LE RENARD², Sophie HUE³, Jean-Michel LEMEE¹ (PhD),

Evelyne KLINGER² (PhD), Philippe MENEI^{1,4} (PhD)

- 1. Department of Neurosurgery, CHU Angers, 49100, Angers, FRANCE
- 2. ESIEA, "Digital Interactions Health and Disability" Laboratory, 53000, Laval, FRANCE
- 3. Department of Ophtalmology, CHU Angers, 49100, Angers, FRANCE
- 4. University of Angers, UMR-S1066, 49100, Angers, FRANCE

FUNDINGS: no fundings were received for this work

CONFLICTS OF INTEREST: none

FINANCIAL SUPPORT & INDUSTRY AFFILIATION: This research did not receive any specific grant

from funding agencies in the public, commercial, or not-for-profit sectors.

ACKNOWLEDGMENT:

We would specially like to thank Morgane GOELLER, Vincent JULLION and Laurent LE GORREC,

ESIEA students who contributed to the development of the software.

We would also like to thank Philippe GOHIER from the Department of Ophtalmology for his help.

CORRESPONDING AUTHOR:

Edouard Mazerand Service de Neurochirurgie CHU Angers 4, rue Larrey 49100 – Angers (France)

Phone: +33 41354822 / +33 680511867

Email: emazerand@gmail.com

Fax: +33 241354508

KEYWORDS: virtual reality, awake craniotomy, brain mapping, optic radiations, brain tumor, glioma

ABBREVIATIONS LIST:

EU: European Union

FEX-VRH: Functions' Explorer based on Virtual Reality Headset

fMRI: Functional Magnetic Resonance Imaging

MRI: Magnetic Resonance Imaging

Download English Version:

https://daneshyari.com/en/article/5634737

Download Persian Version:

https://daneshyari.com/article/5634737

<u>Daneshyari.com</u>