

Accepted Manuscript

Egg model training protocol for stereotaxic neurosurgery and microelectrode implant

Lorena Andreoli, Hougelle Simplício, Edgard Morya

PII: S1878-8750(17)32215-5

DOI: [10.1016/j.wneu.2017.12.099](https://doi.org/10.1016/j.wneu.2017.12.099)

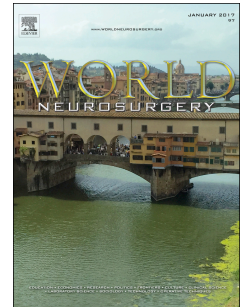
Reference: WNEU 7112

To appear in: *World Neurosurgery*

Received Date: 8 August 2017

Revised Date: 12 December 2017

Accepted Date: 14 December 2017



Please cite this article as: Andreoli L, Simplício H, Morya E, Egg model training protocol for stereotaxic neurosurgery and microelectrode implant, *World Neurosurgery* (2018), doi: 10.1016/j.wneu.2017.12.099.

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.

Egg model training protocol for stereotaxic neurosurgery and microelectrode implant

Lorena Andreoli¹, Hougelle Simplício^{1,2,3}, Edgard Morya¹

¹Neuroengineering Program. Edmond and Lily Safra International Neuroscience Institute. Santos Dumont Institute. Macaíba/RN, 59280-000. Brazil.

²State University of Rio Grande do Norte, Mossoró/RN, 59610-210, Brazil.

³Rehabilitation Center. Anita Garibaldi Center for Education and Research in Health. Santos Dumont Institute. Macaíba/RN, 59280-000. Brazil.

ABSTRACT

Neuroscience research often uses neurosurgery in animal models for several experimental techniques. To our knowledge, there is not a published method for small animal neurosurgery training. Since eggshell thickness is similar to mice, rats and some small primates' skull, we hereby propose an egg-model training for stereotaxic surgery. This protocol allows trainees in neuroscience research to familiarize with microsurgery setting and learn neurosurgery techniques, such as craniotomy drilling, dura mater removal, and electrode implantation. This model is suitable to mimic animal neurosurgery and for the replacement and sparing of animals intended for training neurosurgical skills.

KEYWORDS

Stereotaxic neurosurgery, surgical training, egg model.

INTRODUCTION

Download English Version:

<https://daneshyari.com/en/article/8691875>

Download Persian Version:

<https://daneshyari.com/article/8691875>

[Daneshyari.com](https://daneshyari.com)