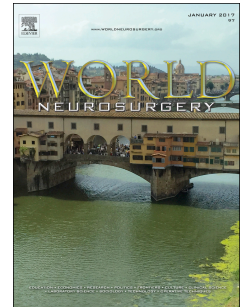


# Accepted Manuscript

Transcranial evacuation of atypical progressive supradiaphragmatic hematoma after transsphenoidal complete resection of pituitary adenoma

Dr. Hussam Metwali, MD MSc, Prof. Rudolf Fahlbusch, MD PhD



PII: S1878-8750(17)30394-7

DOI: [10.1016/j.wneu.2017.03.071](https://doi.org/10.1016/j.wneu.2017.03.071)

Reference: WNEU 5440

To appear in: *World Neurosurgery*

Received Date: 28 December 2016

Accepted Date: 16 March 2017

Please cite this article as: Metwali H, Fahlbusch R, Transcranial evacuation of atypical progressive supradiaphragmatic hematoma after transsphenoidal complete resection of pituitary adenoma, *World Neurosurgery* (2017), doi: 10.1016/j.wneu.2017.03.071.

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.

**Transcranial evacuation of atypical progressive supradiaphragmatic hematoma after transsphenoidal complete resection of pituitary adenoma**

**Authors**

Dr. Hussam Metwali, MD MSc

Prof. Rudolf Fahlbusch, MD PhD

**International Neuroscience Institute**

Rudolf-Pichlmayr-Straße 4

D - 30625 Hannover

Germany

**Corresponding author**

Dr. Hussam Metwali, MD MSc.

Rudolf-Pichlmayr-Straße 4

D - 30625 Hannover

Germany

Telephone: +49 (0)511 27092-837

Fax: +49 (0)511 27092-453

Email: [drhussamm@yahoo.com](mailto:drhussamm@yahoo.com)

**Keywords:** Pituitary adenoma, microsurgery, complications, outcome, hematoma, suprasellar, Supradiaphragmatic.

**Abbreviations**

TS: Transsphenoidal, EVD: external ventricular drainage

Download English Version:

<https://daneshyari.com/en/article/5634662>

Download Persian Version:

<https://daneshyari.com/article/5634662>

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