

Accepted Manuscript

Long-term follow-up of primary medical versus surgical treatment of prolactinomas in men: Effects on hyperprolactinemia, hypogonadism and bone health

Lukas Anderегgen, MD, Janine Frey, MD, Robert H. Andres, MD, Marwan El-Koussy, MD, Jürgen Beck, MD, Rolf W. Seiler, MD, Emanuel Christ, MD, PhD

PII: S1878-8750(16)31048-8

DOI: [10.1016/j.wneu.2016.10.059](https://doi.org/10.1016/j.wneu.2016.10.059)

Reference: WNEU 4727

To appear in: *World Neurosurgery*

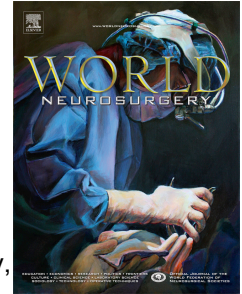
Received Date: 13 June 2016

Revised Date: 7 October 2016

Accepted Date: 12 October 2016

Please cite this article as: Anderегgen L, Frey J, Andres RH, El-Koussy M, Beck J, Seiler RW, Christ E, Long-term follow-up of primary medical versus surgical treatment of prolactinomas in men: Effects on hyperprolactinemia, hypogonadism and bone health, *World Neurosurgery* (2016), doi: [10.1016/j.wneu.2016.10.059](https://doi.org/10.1016/j.wneu.2016.10.059).

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.



1 **Long-term follow-up of primary medical versus surgical treatment of**
2 **prolactinomas in men: Effects on hyperprolactinemia, hypogonadism and**
3 **bone health**

4
5 Lukas Anderegg, MD¹; Janine Frey, MD²; Robert H. Andres, MD¹; Marwan El-Koussy, MD³,
6 Jürgen Beck, MD¹, Rolf W. Seiler, MD¹, Emanuel Christ, MD, PhD^{2*}

7
8 ¹Departments of Neurosurgery, ²Endocrinology, and ³Neuroradiology, Inselspital, Bern University
9 Hospital, University of Bern, Switzerland

10
11 **Correspondence:**

12 Emanuel Christ, M.D. Ph.D.

13 Department of Endocrinology

14 Inselspital Bern

15 University of Bern

16 3010 Bern

17 Switzerland

18 Email: emanuel.christ@insel.ch

19 Phone number: +41 31 632 40 74

20 Fax number: +41 31 632 84 14

21
22 **Keywords:** bone health, men, hypogonadism, primary medical therapy, primary surgical therapy,
23 prolactinoma

24
25 **Short title:** Prolactinoma treatment in men

26
27 **Abbreviations:** BMI, body mass index; DA, Dopamine agonist; IQR, interquartile ratio; PRL,
28 prolactin; SD, standard deviation

29
30 **Ethical standards and patient consent:** This study was approved by the Ethical Committee of Bern
31 (Kantonale Ethikkommission, KEK, Bern, Switzerland), the Swiss Ethic Committee on research
32 involving humans. The study has been performed in accordance with the ethical standards laid down
33 in the 1964 Declaration of Helsinki and its later amendments.

34
35 **Competing interests**

36 This work or part of this work has not been previously published. The authors report no conflict of
37 interest concerning the materials or methods used in this study or the findings specified in this paper.

Download English Version:

<https://daneshyari.com/en/article/5634758>

Download Persian Version:

<https://daneshyari.com/article/5634758>

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