

Accepted Manuscript

Title: *In-vivo* comparison of the neurotoxic potencies of incobotulinumtoxinA, onabotulinumtoxinA, and abobotulinumtoxinA

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PII: S0304-3940(16)30400-1
DOI: <http://dx.doi.org/doi:10.1016/j.neulet.2016.06.001>
Reference: NSL 32089

To appear in: *Neuroscience Letters*

Received date: 29-3-2016
Revised date: 31-5-2016
Accepted date: 1-6-2016

Please cite this article as: Anna Kutschenko, Anja Manig, Marie-Christine Reinert, Angelika Mönnich, David Liebetanz, *In-vivo* comparison of the neurotoxic potencies of incobotulinumtoxinA, onabotulinumtoxinA, and abobotulinumtoxinA, *Neuroscience Letters* <http://dx.doi.org/10.1016/j.neulet.2016.06.001>

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***In-vivo* comparison of the neurotoxic potencies of incobotulinumtoxinA, onabotulinumtoxinA, and abobotulinumtoxinA**

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Highlights:

- IncobotulinumtoxinA, onabotulinumtoxinA, abobotulinumtoxinA are not interchangeable.
- The same number of mouse units induces different degrees of paresis.
- OnabotulinumtoxinA is relevantly more potent than incobotulinumtoxinA.
- The potency of onabotulinumtoxinA is two-fold greater than of abobotulinumtoxinA.
- The same value of paresis also results in an identical duration of paresis.

Abstract:

Three botulinum neurotoxin type A (BoNT/A) products, incobotulinumtoxinA, onabotulinumtoxinA, and abobotulinumtoxinA, all manufactured by different methods, are employed in clinical practice. Comparing the three BoNT/A products is difficult because their concentrations and volumes differ and the precise dose equivalence ratio is not known. We aimed to compare the neurotoxic potencies by a systematic analysis of injected volume and dose.

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