

# INPLASY PROTOCOL

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**Support:** None.

**Review Stage at time of this  
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not published.

**Conflicts of interest:**  
None declared.

## The efficacy of botulinum toxin in patients with brachial plexus injury, a systematic review and meta-analysis

Chen, TY<sup>1</sup>.

**Review question / Objective:** Patient: patients with brachial plexus injury; intervention: intramuscular injection of botulinum toxin; comparison: traditional rehabilitation; outcome: muscle power, range of motion, upper limb function. **Condition being studied:** Patients with brachial plexus injury suffer from severe ADL constriction due to muscle contraction, which may be relieved by intramuscular injection of botulinum toxin.

**Main outcome(s):** Pre- and post-interventional muscle power, range of motion, upper limb function of participants.

**INPLASY registration number:** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 04 September 2022 and was last updated on 04 September 2022 (registration number INPLASY202290017).

### INTRODUCTION

**Review question / Objective:** Patient: patients with brachial plexus injury; intervention: intramuscular injection of botulinum toxin; comparison: traditional

rehabilitation; outcome: muscle power, range of motion, upper limb function.

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## **METHODS**

**Participant or population:** Patients with brachial plexus injury.

**Intervention:** Intramuscular injection of botulinum toxin.

**Comparator:** Traditional rehabilitation.

**Study designs to be included:** Case report, case series, cohort study, RCT.

**Eligibility criteria:** studies that reported enough demographic information, intervention details, outcome measurement methods of t.

**Information sources:** Electronic databases.

**Main outcome(s):** Pre- and post-interventional muscle power, range of motion, upper limb function of participants.

**Quality assessment / Risk of bias analysis:** JBI Critical Appraisal Checklist for Case Series.

**Strategy of data synthesis:** meta-analysis and meta-regression of the outcomes reported by included articles.

**Subgroup analysis:** Age of participants was used for subgroup analysis.

**Sensitivity analysis:** Remove one study at a time.

**Country(ies) involved:** Taiwan.

**Keywords:** botulinum toxin, brachial plexus injury.

**Contributions of each author:**

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