

**Supplementary Table S1.** Electronic databases search strategy

PubMed (26 July 2023)

Search	Query	Items found
#1 SCI	("spinal cord injuries"[MeSH Terms] OR spinal cord injuries[Title/Abstract] OR spinal cord[Title/Abstract] AND (injur*[Title/Abstract] OR damage*[Title/Abstract] OR contusion*[Title/Abstract] OR lacerat*[Title/Abstract]) OR "paraplegia"[MeSH Terms] OR paraplegia[Title/Abstract] OR "brown sequard syndrome"[MeSH Terms] OR brown sequard syndrome[Title/Abstract] OR "quadriplegia"[MeSH Terms] OR quadriplegia[Title/Abstract] OR quadripleg*[Title/Abstract] OR tetrapleg*[Title/Abstract] OR parapleg*[Title/Abstract])	87,704
#2 BoNT-A	("Botulinum Toxins"[Mesh] OR (botulin*[tiab] AND toxin*[tiab]) OR (botulin*[tiab] AND neurotoxin*[tiab]) OR (botulism*[tiab] AND toxin*[tiab]) OR (botulin*[tiab] AND exotoxin*[tiab]) OR abobotulinumtoxin*[tiab] OR azzalure*[tiab] OR bocouture*[tiab] OR bont[tiab] OR botox[tiab] OR "botulin a"[tiab] OR btxa[tiab] OR btx[tiab] OR (botulin*[tiab] AND endotoxin*[tiab]) OR dysport*[tiab] OR (evabotulin*[tiab] AND toxin*[tiab]) OR evabotulinumtoxin*[tiab] OR (incobotulin*[tiab] AND toxin*[tiab]) OR incobotulinumtoxin*[tiab] OR meditoxin*[tiab] OR "nt 201"[tiab] OR nt201[tiab] OR oculinum*[tiab] OR (onabotulin*[tiab] AND toxin*[tiab]) OR onabotulinumtoxin*[tiab] OR onaclostox*[tiab] OR prosigne*[tiab] OR relaxin*[tiab] OR vistabel*[tiab] OR xeomin*[tiab])	27,462
#3 Spasticity	muscle spasticity[MeSH] OR muscle spasticity[tw] OR spasticit*[tw] OR spastic*[tiab] OR spasm[MeSH] OR spasm[tw] OR cramp[tiab] OR contracture[MeSH] OR contracture[tiab] OR muscle hypertonia[MeSH] OR clonus[tiab] OR (muscle*[tiab] AND rigidit*[tiab])	93,770
#4	#1 AND #2 AND #3	192

Embase (26 July 2023)

Search	Query	Items found
#1 SCI	'spinal cord injury'/exp OR spinal cord injury:ab,ti,kw OR 'spinal cord injuries':ab,ti,kw OR 'spinal cord trauma':ab,ti,kw OR (injury and spinal cord):ab,ti,kw OR 'contusion'/exp OR 'paraplegia'/exp OR paraplegia:ab,ti,kw OR 'Brown Sequard syndrome'/exp OR 'quadriplegia'/exp OR quadriplegia:ab,ti,kw	155,090
#2 BoNT-A	'botulinum toxin'/exp OR 'botulinum toxin a'/exp OR (botulin* NEAR/3 toxin*):ab,ti,kw OR (botulin* NEAR/3 neurotoxin*):ab,ti,kw OR (botulism* NEAR/3 toxin*):ab,ti,kw OR (botulin* NEAR/3 exotoxin*):ab,ti,kw OR abobotulinumtoxin*:ab,ti,kw OR azzalure*:ab,ti,kw OR bocouture*:ab,ti,kw OR bont:ab,ti,kw OR botox:ab,ti,kw OR 'botulin a':ab,ti,kw OR btxa:ab,ti,kw OR btx:ab,ti,kw OR (botulin* NEAR/3 endotoxin*):ab,ti,kw OR dyslor*:ab,ti,kw OR dysport*:ab,ti,kw OR (evabotulin* NEAR/3 toxin*):ab,ti,kw OR evabotulinumtoxin*:ab,ti,kw OR (incobotulin* NEAR/3 toxin*):ab,ti,kw OR incobotulinumtoxin*:ab,ti,kw OR meditoxin*:ab,ti,kw OR 'nt 201':ab,ti,kw OR nt201:ab,ti,kw OR oculinum*:ab,ti,kw OR (onabotulin* NEAR/3 toxin*):ab,ti,kw OR onabotulinumtoxin*:ab,ti,kw OR onaclostox*:ab,ti,kw OR prosigne*:ab,ti,kw OR purtox*:ab,ti,kw OR relaxin*:ab,ti,kw OR vistabel*:ab,ti,kw OR vistabex*:ab,ti,kw OR xeomin*:ab,ti,kw	49,894
#3 Spasticity	'spasticity'/exp OR spasticity:ab,ti,kw OR 'muscle hypertonia'/exp OR 'muscle spasm'/de OR 'flexion contracture'/exp OR 'muscle contracture'/de OR 'joint contracture'/exp OR hyperton*:ab,ti,kw OR contractur*:ab,ti,kw OR spastic*:ab,ti,kw OR spasm:ab,ti,kw OR spasms:ab,ti,kw OR ((muscle* NEAR/3 rigidit*):ab,ti,kw)	172,445
#4	#1 AND #2 AND #3	715

Search strategy for Cochrane Library (26 July 2023)

Search	Query	Items found
#1 SCI	MeSH descriptor: [Spinal Cord Injuries] explode all tress	2,274
#2 BoNT-A	[Botulinum Toxins] explode all tress	2,551
#3 Spasticity	[Muscle Spasticity] explode all tress	2,639
#4	#1 AND #2 AND #3	7