

**Supplemental Table 1: FreeText and MeSH search terms in the US National Library of Medicine**

Category	Search terms	Results
PKN	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("parkinson disease"[MeSH Terms] OR ("parkinson"[All Fields] AND "disease"[All Fields]) OR "parkinson disease"[All Fields] OR "parkinsons"[All Fields] OR "parkinson"[All Fields] OR "parkinson s"[All Fields] OR "parkinsonian disorders"[MeSH Terms] OR ("parkinsonian"[All Fields] AND "disorders"[All Fields]) OR "parkinsonian disorders"[All Fields] OR "parkinsonism"[All Fields] OR "parkinsonisms"[All Fields] OR "parkinsons s"[All Fields])	285
Tics	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("tics"[MeSH Terms] OR "tics"[All Fields])	15
DKN	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("dyskinesiae"[All Fields] OR "dyskinesias"[MeSH Terms] OR "dyskinesias"[All Fields] OR "dyskinesia"[All Fields])	675
DTN	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("dystonia"[MeSH Terms] OR "dystonia"[All Fields] OR "dystonias"[All Fields] OR "dystonic disorders"[MeSH Terms] OR ("dystonic"[All Fields] AND "disorders"[All Fields]) OR "dystonic disorders"[All Fields])	57
Stuttering	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("stammerers"[All Fields] OR "stammers"[All Fields] OR "stutterer"[All Fields] OR "stutterer s"[All Fields] OR "stutterers"[All Fields] OR "stuttering"[MeSH Terms] OR "stuttering"[All Fields] OR "stammer"[All Fields] OR "stammering"[All Fields] OR "stutter"[All Fields] OR "stuttered"[All Fields] OR "stutters"[All Fields] OR "stutterings"[All Fields])	8
MCL	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("myoclonus"[MeSH Terms] OR "myoclonus"[All Fields])	43
Restless legs syndrome	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("restless legs syndrome"[MeSH Terms] OR ("restless"[All Fields] AND "legs"[All Fields] AND "syndrome"[All Fields]) OR "restless legs syndrome"[All Fields])	8
AKT	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("akathisia"[All Fields] OR "psychomotor agitation"[MeSH Terms] OR ("psychomotor"[All Fields] AND "agitation"[All Fields]) OR "psychomotor agitation"[All Fields] OR "akathisia"[All Fields])	153
Tremor	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("tremor"[MeSH Terms] OR "tremor"[All Fields] OR "tremors"[All Fields] OR "tremoring"[All Fields] OR "tremorous"[All Fields])	313
Chorea	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("chorea"[MeSH Terms] OR "chorea"[All Fields] OR "choreas"[All Fields])	93
Restlessness	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("psychomotor agitation"[MeSH Terms] OR ("psychomotor"[All Fields] AND "agitation"[All Fields]) OR "psychomotor agitation"[All Fields] OR "restlessness"[All Fields] OR "restless"[All Fields])	137
ATX	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("ataxia"[MeSH Terms] OR "ataxia"[All Fields] OR "ataxias"[All Fields])	118
Ballism	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("dyskinesias"[MeSH Terms] OR "dyskinesias"[All Fields] OR "ballism"[All Fields])	626
Hyperkinetic	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("hyperkinetic"[All Fields] OR "hyperkinetics"[All Fields])	12
Hypokinetic	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("hypokinesia"[MeSH Terms] OR "hypokinesia"[All Fields] OR "hypokinetic"[All Fields])	13
Bradykinesia	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("hypokinesia"[MeSH Terms] OR "hypokinesia"[All Fields] OR "bradykinesia"[All Fields])	13
Movement disorder	("lithium"[MeSH Terms] OR "lithium"[All Fields] OR "lithium s"[All Fields] OR "lithiums"[All Fields]) AND ("movement disorders"[MeSH Terms] OR ("movement"[All Fields] AND "disorders"[All Fields]) OR "movement disorders"[All Fields] OR ("movement"[All Fields] AND "disorder"[All Fields]) OR "movement disorder"[All Fields])	544
Total		3113

ATX: Ataxia, DKN: Dyskinesia, DTN: Dystonia, MCL: Myoclonus, PKN: Parkinsonism, AKT: Akathisia