**Flow diagram of the selection process**

Accessible storage of ECT patient files from May 2012 onwards

**Identification**

Random selection of 78 patients with equal sex distribution, aiming at equal age distribution

Treatments excluded from primary analysis

Reason 1: exclusion of restimulations (treatments = 213)

Reason 2: exclusion of mini-series treatments (treatments = 25)

(3x restimulations within mini-series)

Subjects and treatments assessed for completeness regarding ECT technical parameters (n = 78, treatments = 1992)

**Screening**

Subjects and treatments included in primary analysis

(n = 78, treatments = 1757)

Treatments excluded from secondary analysis after assessment of missing data in each of the 7 LMM; see Missing data summary for number of excluded treatments per ECT quality criterion

Subjects and treatments included in secondary analysis

(n = 78, treatments = differing between quality criterion variables, see table below)

**Included**

Flow diagram adapted from: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, Shamseer L, Tetzlaff JM, Akl EA, Brennan SE, Chou R, Glanville J, Grimshaw JM, Hróbjartsson A, Lalu MM, Li T, Loder EW, Mayo-Wilson E, McDonald S, McGuinness LA, Stewart LA, Thomas J, Tricco AC, Welch VA, Whiting P & McKenzie JE (2021). The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. British Medical Journal 372.

**Included ECT treatments for each ECT quality criterion in secondary analysis LMM:**

|  |  |
| --- | --- |
| **ECT quality criterion** | **Included treatments** |
| Seizure Duration (s) | 1721 |
| Maximum Sustained Power (μV²) | 1485 |
| Time to Peak Power (s) | 1484 |
| Maximum Sustained Coherence (%) | 1483 |
| Time to Peak Coherence (s) | 1483 |
| Average Seizure Energy Index (ASEI, μV²) | 1243 |
| Postictal Suppression Index (PSI, %) | 1090 |