

Table S6. Key Excluded Studies and Reasons for Exclusion

Author Name	Year	PMID	Treatment of Interest	Reason for Exclusion
Kessing	2005	16061763	Lithium	Comparison to general population (not psychiatric population)
Hui	2018	29551618	Antipsychotics	Cannot clearly attribute outcome to a given treatment group
Stralin and Hetta	2019	29888512	Antipsychotics	Insufficient data
Olesen	2010	20235081	AED	Not focusing on a population with clearly defined mental health diagnosis
Koukopoulos	1995	7653332	Lithium	Insufficient data
Munk-Olsen	2007	17470959	ECT	Insufficient data (no data indicating sample size of each group)
Avery and Winokur	1976	962487	ECT	Duplicate data (see Avery and Winokur 1978)
Ziskind	1945	Unavailable*	ECT	Unclear to which treatment groups suicide deaths should be attributed
Bradvik	2006	16315268	ECT	Duplicate data (see Bradvik et al 2000)
Hunt	2011	21208662	ECT	No non-suicide comparison group
Yerevanian	2003	12547290	AED	One suicide death was reported, but it was unclear to which treatment group this should be attributed.
Schwarzenbach and Modestin	1993	8479589	AED	Duplicate data (see Modestin et al 1992)
Pacchiarotti	2011	20817267	AED	No suicide deaths reported
Patorno	2010	20388896	AED	Not focusing on a population with clearly defined mental health diagnosis
Thies-Flechtner	1996	8738314	Lithium	Duplicate data (see Greil et al
Prien	1974	4587809	Lithium	Duplicate data (see Prien et al 1973 studies)
Broderson	2000	10912217	Lithium	Comparison to general population (not psychiatric population)
Ahrens	2001	11518473	Lithium	No non-lithium comparison group
Leith	2019	30383553	Lithium	Cannot distinguish between suicide death and non-fatal suicide attempt
Coppen	1991	1774419	Lithium	Used historical comparison group
Sharma	1994	8071480	Lithium	Patients matched on all-cause mortality not suicide
Marangell	2008	18399724	Lithium	Cannot distinguish between suicide death and non-fatal suicide attempt
Gonzalez-Pinto	2006	17042834	Lithium	No non-lithium group (compares poorly adherent lithium to adherent lithium users)

Nilsson and Axelsson	1990	2127155	Lithium	No report on suicide death (two reported suicides are not included in the analysis of the paper)
Rihmer	1993	8481204	Lithium	No report on suicides
Gazalle	2007	17435926	Lithium	No comparison group
Born	2001	16020172	Lithium	No suicide deaths
Goldberg	2005	16339615	Lithium	No suicide deaths
Ahrens	1995	7759663	Lithium	No comparison group
Nilsson	1999	10073393	Lithium	Duplicate data (see Nilsson 1995)
Brus	2019	31189487	Lithium	Overlaps somewhat (not entirely) with data from Song et al 2017. A sensitivity analysis using this data strengthens lithium effects.
Koek	2012	22749157	Antipsychotic	No suicide deaths
Storosum	2005	15800158	Antipsychotic	Cannot distinguish treatment of interest (antipsychotic v. antiepileptic mood stabilizer). This study was used for lithium.
Tiihonen	2009	19595447	Antipsychotic	Reference group was other antipsychotics. This study was used for clozapine.
Gibbons	2009	19996040	Antipsychotic	No suicide death (only attempts)
Suttajit	2013	23728667	Antipsychotic	Reference group was other antipsychotics
Karayal	2011	21450154	Antipsychotic	No suicide death
Meltzer	1995	7840350	Clozapine	No suicide deaths reported
Kiviniemi	2013	23953217	Clozapine	Duplicate data (Tiihonen et al 2009)
Yood	2010	20925132	Antipsychotic	Cannot distinguish between suicide death and non-fatal suicide attempt
Reid	1999	10037167	Clozapine	Duplicate data (Reid et al 1998)
Haukka	2008	18327869	Clozapine	Duplicate data (Tiihonen et al 2009)
Wagstaff and Perry	2003	12665398	Clozapine	Duplicate data
Modai	2000	10831019	Clozapine	Did not account for diagnosis differences between groups
Munro	1999	10789357	Clozapine	Used historical comparison group
Tiihonen	2012	22566579	Antipsychotic	Investigating polypharmacy (unclear treatment allocation effects)
Kleindienst	2000	11093063	Lithium	Duplicate data (see Greil et al studies)
Shah	1999	10466321	Antipsychotic	Insufficient data
Nilsson	2002	12060025	AED/MS	Not focusing on a population with clearly defined mental health diagnosis
Khan	2006	17065970	Antipsychotics	Duplicate data (Khan et al 2013)
Khan	2001	11532730	Antipsychotics	Duplicate data (Khan et al 2013)
Plan	2019	31302523	Various	No clear comparison group

PMID – PubMed Identifier

*Full citation: Ziskin E, Somerfeld-Ziskind E, Ziskind L. Metrazole and electric convulsive therapy of the affective psychoses: a controlled series of observations covering a period of five years. *Arch Neuropsych.* 1945;53(3):212-217.