

# **Nurse-Led Electrical External Cardioversion of Patients with Atrial Arrhythmia: A Systematic Review Update and Meta-Analysis**

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**Supplementary Table S1: Specific search strategies for each database**

<b>Database</b>	<b>Search Strategy</b>
<b>Cinahl and Psycinfo</b>	(atrial fibrillation OR auricular fibrillation OR atrial arrhythmias) AND (cardioversion OR electric countershock OR electric defibrillation OR electrical cardioversion OR electroversion OR external cardioversion OR DC cardioversion) AND (advanced practice nursing OR cardiovascular nursing OR critical care nursing OR cardiac nursing OR coronary care nursing OR nurse-led OR nurse-run OR nurse's role)
<b>Embase</b>	('atrial fibrillation'/exp OR 'atrial fibrillation' OR 'heart atrium arrhythmia'/exp OR 'heart atrium arrhythmia') AND ('cardioversion'/exp OR cardioversion OR 'defibrillator'/exp OR defibrillator OR 'electric shock'/exp OR 'electric shock') AND ('nurse'/exp OR nurse OR 'nurse led intervention'/exp OR 'nurse led intervention')
<b>Web of Science</b>	(atrial fibrillation OR auricular fibrillation OR atrial arrhythmias) AND (cardioversion OR electric countershock OR electric defibrillation OR electrical cardioversion OR external cardioversion OR DC cardioversion) AND (advanced practice nursing OR cardiovascular nursing OR critical care nursing OR cardiac nursing OR coronary care nursing OR nurse-led OR nurse-run OR nurse's role)
<b>Cochrane Library</b>	(atrial fibrillation OR auricular fibrillation OR atrial arrhythmias) AND (cardioversion OR electric countershock OR electric defibrillation OR electrical cardioversion OR electroversion OR external cardioversion OR DC cardioversion) AND (advanced practice nursing OR cardiovascular nursing OR critical care nursing OR cardiac nursing OR coronary care nursing OR nurse-led OR nurse-run OR nurse's role)
<b>Scopus</b>	(atrial fibrillation OR atrial arrhythmias) AND (cardioversion OR electroshock OR defibrillator) AND (nurse)
<b>PubMed</b>	(atrial fibrillation OR atrial fibrillation[mesh] OR auricular fibrillation OR atrial arrhythmias) AND (cardioversion OR electric countershock[mesh] OR electric defibrillation OR electrical cardioversion OR electroversion OR external cardioversion OR DC cardioversion) AND (advanced practice nursing[mesh] OR cardiovascular nursing[mesh] OR critical care nursing OR cardiac nursing OR coronary care nursing OR nurse-led OR nurse-run OR nurse's role)

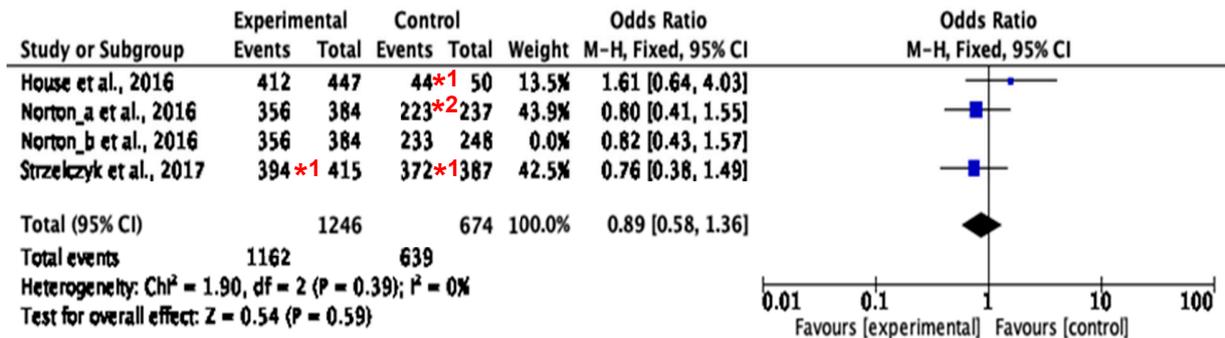
Supplementary Table S2: ROBINS I assessment for DCCV safety and effectiveness.

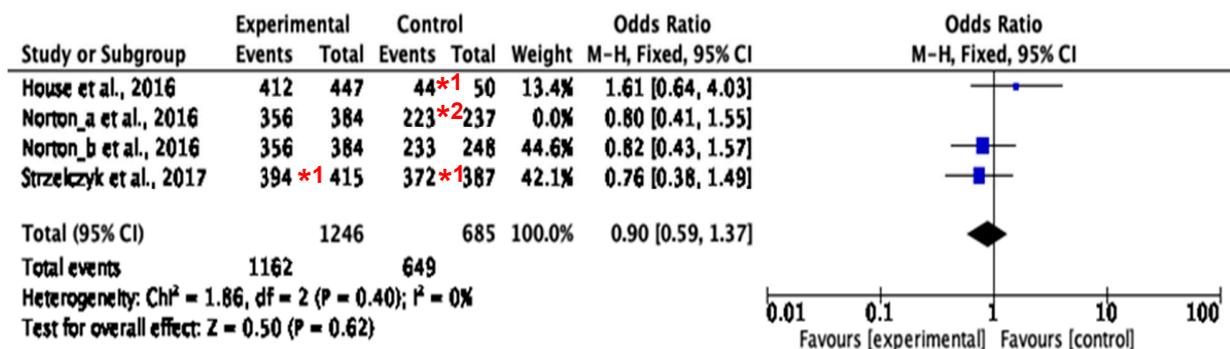
Study	Risk of bias domains							Overall
	D1	D2	D3	D4	D5	D6	D7	
Quinn, 1998	⊗	-	-	+	-	+	+	⊗
Boodhoo et al., 2004	-	+	+	+	-	+	+	-
Shelton et al., 2006	-	-	-	+	+	+	-	-
Moore et al., 2014	⊗	+	+	+	⊗	-	+	⊗
House et al., 2016	-	-	⊗	+	-	+	-	!
Norton et al., 2016	-	⊗	-	-	+	+	-	!
Strzelczyk et al., 2017	-	-	+	+	+	+	-	-
Purkayastha et al., 2023	-	⊗	-	-	+	+	+	⊗
Zaher et al., 2023	-	-	+	+	+	+	+	-

Domains:  
D1: Bias due to confounding.  
D2: Bias due to selection of participants.  
D3: Bias in classification of interventions.  
D4: Bias due to deviations from intended interventions.  
D5: Bias due to missing data.  
D6: Bias in measurement of outcomes.  
D7: Bias in selection of the reported result.

Judgement  
! Critical  
⊗ Serious  
- Moderate  
+ Low

Supplementary Information S1: Explanation about data used in the meta-analysis





<sup>\*1</sup> Meta-analysis was conducted extracting data of events clearly declared by authors in the articles or mathematically derived from success frequency percentages.

<sup>\*2</sup> In table 2, item 2 (MD/NP) of Norton et al. (2016) we noticed a misprint. We contacted the corresponding authors to have confirmation, but we didn't receive any response. The meta-analysis with the agreement of all authors was conducted with the value mathematically derived from the table.