

Supplementary Table 2. The search strategy of the study

Electronic database	Syntax	Limit	Output number
PubMed	(((((nurses) OR nursing)) AND (((Mechanically Ventilated Patients) OR Intubated patients) OR Mechanical Ventilation)) AND (((Communication) OR Interaction) OR Relationships) OR Nurse-Patient Communication) OR Nurse-Patient Relations)) AND ((Intensive Care Units) OR Critical care))	Publication date Start day: Jan 1, 2000 End date: Jun 1, 2021	680
Cochrane Library	(((((nurses:ti,ab,kw OR nursing:ti,ab,kw) AND ("Mechanically Ventilated Patients":ti,ab,kw OR "Intubated patients":ti,ab,kw OR "Mechanical Ventilation":ti,ab,kw)) AND (((Communication:ti,ab,kw OR Interaction:ti,ab,kw) OR Relationships:ti,ab,kw) OR "Nurse-Patient Communication":ti,ab,kw) OR "Nurse-Patient Relations":ti,ab,kw) AND ("Intensive Care Units":ti,ab,kw OR "Critical care":ti,ab,kw))	Publication date Start day: Jan 1, 2000 End date: Jun 1, 2021 + search word variations	54
Web of Science	((TS=(nurse) OR TS=(nursing)) AND (TS=(Mechanically Ventilated Patients) OR TS=(Intubated patients) OR TS=(Mechanical Ventilation)) AND (TS=(Communication) OR TS=(Interaction) OR TS=(Relationships) OR TS=(Nurse-Patient Communication) OR TS=(Nurse-Patient Relations)) AND (TS=(Intensive Care Units) OR TS=(Critical care)))	Publication date: 2000–2021	292
Scopus	(TITLE-ABS-KEY (nurse OR nursing) AND TITLE-ABS-KEY ("Mechanically Ventilated Patients" OR "Intubated patients" OR "Mechanical Ventilation") AND TITLE-ABS-KEY (communication OR interaction OR relationships OR "Nurse-Patient Communication" OR "Nurse-Patient Relations") AND TITLE-ABS-KEY ("Intensive Care Units" OR "Critical care"))	Publication date: 2000–2021	305
CINAHL	TX (nurse or nursing) AND TX (Mechanically Ventilated Patients OR Intubated patients OR Mechanical Ventilation) AND TX (Communication OR Interaction OR Relationships OR Nurse-Patient Communication OR Nurse-Patient Relations) AND TX (intensive care unit or critical care)	Limiters – Full-Text; Abstract Available; Published Date: Jan 1, 2000–Dec 31, 2021 Expanders - Apply related words Search modes - Boolean/Phrase	375
Embase	(nurse:ti,ab,kw OR nursing:ti,ab,kw) AND ('mechanically ventilated patients':ti,ab,kw OR 'intubated patients':ti,ab,kw OR 'mechanical ventilation':ti,ab,kw) AND ('interpersonal communication':ti,ab,kw OR interaction:ti,ab,kw OR relationships:ti,ab,kw OR 'nurse-patient communication':ti,ab,kw OR 'nurse patient relationship':ti,ab,kw) AND [2000-2021]/py	Publication date: 2000–2021	53