

Additional file 7. Clinical practice outcomes included in the meta-analyses.

First author, publication year, country	Outcomes included in the meta-analyses	Outcome name
Abraham, 2019, Germany	<ul style="list-style-type: none"> CP - Physical restraints 	<ul style="list-style-type: none"> Use of physical restraints - Mean prevalence of residents with any restraints (D)
Ahmed, 2019, India	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Vital sign monitoring after admission (C)
Akande, 2019, Nigeria	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Practice of TBIC (C)
Akrami, 2019, Iran	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Transfer quality (C)
Alhalal, 2020, Saudi Arabia	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Practice issues (C)
Aloush, 2007, Jordan	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Compliance for VAP-prevention guidelines (C)
Antonini, 2021, Switzerland	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Arzani, 2020, Iran	<ul style="list-style-type: none"> CP - Symptom management 	<ul style="list-style-type: none"> Practice scores about pain management in children 1 month after the intervention (C)
Bagherzadeh, 2021, Iran	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Caring behavior dimension (total score) (C)
Bano, 2022, Pakistan	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Practices (C)
Behzadi, 2019, Iran	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Nurse's oral care performance score (C)
Bernbug, 2019, Germany	<ul style="list-style-type: none"> CP - Counseling/Provision of advice 	<ul style="list-style-type: none"> Quality of relationship to patients – Support (C)
Berry, 2022, USA	<ul style="list-style-type: none"> CP – Immunization 	<ul style="list-style-type: none"> No. Residents vaccinated (D)
Bittner, 2002, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Blanco-Mavillard, 2021, Spain	<ul style="list-style-type: none"> CP – Equipment management 	<ul style="list-style-type: none"> PIVCs with all recommendations completed (D)
Boumans, 2005, Netherlands	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Taking nursing history, nursing problems, etc. (C)
Brady, 2020, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Brennan, 2022, Australia	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Bruce, 2007, USA	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Number of patients referred for a mental health evaluation (D)
Bucknall, 2022, Australia	<ul style="list-style-type: none"> CP – Documentation 	<ul style="list-style-type: none"> Proportion of audits with AT LEAST one vital sign measurement every 8 hours (D)
Carrico, 2007, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Carroll, 2012, USA	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Fall risk documentation by nurses (D)
Chambers, 2022, Canada	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Chan, 2013, Canada	<ul style="list-style-type: none"> CP - Symptom management 	<ul style="list-style-type: none"> Overall use of at least one new pain-relieving strategy (C)
Chang, 2016, Taiwan	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Charrier, 2008, Italy	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Cheater, 2006, UK	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> A1. History and examination (D)
Chen, 2016, Taiwan	<ul style="list-style-type: none"> CP - Symptom management 	<ul style="list-style-type: none"> Number of weekly pharmacologic strategies (C)
Chenoweth, 2022, Australia	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> QUIS positive (C)
Cleland, 2007, UK	<ul style="list-style-type: none"> CP - Prescription 	<ul style="list-style-type: none"> No. of β_2-agonist inhalers prescribed in previous 12 months (C)
Collins, 2021, Tajikistan	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Smoking status recorded (D)
Cone, 1996, USA	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Neurologic documentation by nurses (C)
Cortez, 2016, USA	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Documentation of evidence-based interventions (all symptoms) (D)
Curtis, 2011, USA	<ul style="list-style-type: none"> CP – Assessment/examination 	<ul style="list-style-type: none"> End-of-life Care: Documented Pain Assessment in the last 24 hours (D)
Daly, 2009, Australia	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Substance use history taken by nurses (D)
Davies, 2002, Canada	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Rates of electronic fetal monitoring by nurses (D)
Day, 2001, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
De Barbieri, 2020, Italy	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Perceived quality of nursing care (C)
deRond, 2000, Netherlands	<ul style="list-style-type: none"> CP - Medication administration CP – Documentation 	<ul style="list-style-type: none"> Total analgesics administered (D) Total pain documentation score (C)
Delvaux, 2004, Belgium	<ul style="list-style-type: none"> CP - Counseling/Provision of advice 	<ul style="list-style-type: none"> Statement and response (C)
DeRuijter, 2018, Netherlands	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Guideline adherence (C)
Donati, 2020, Italy	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Observed compliance with the WHO 5 moments of hand hygiene (D)
Dudener, 2023, Turkey	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Caring Behaviors Scale (C)

Additional file 7. Clinical practice outcomes included in the meta-analyses.

Edwards, 2007, Australia	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Temperature when an antipyretic was administered (C)
Elahi, 2021, Iran	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Caring Behavior (C)
Elzeky, 2022, Egypt	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Total performance score (C)
Emamgholi, 2020, Iran	<ul style="list-style-type: none"> CP - Other 	<ul style="list-style-type: none"> Total score - Performance score (including Flushing, Dressing change, Medication and fluid infusion) (C)
Esche, 2015, USA	<ul style="list-style-type: none"> CP – Documentation 	<ul style="list-style-type: none"> PrU Documentation (D)
Evans, 1997, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Identification and Treatment of Asthma Patients (C)
Evans, 2007, Australia	<ul style="list-style-type: none"> CP - Incident reporting 	<ul style="list-style-type: none"> Reporting rate (D)
Fabre, 2020, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Fairall, 2005, South Africa	<ul style="list-style-type: none"> CP - Testing/screening 	<ul style="list-style-type: none"> Sputum screening for TB (D)
Fakih, 2012, USA	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Accurate documentation on dressing (D)
Feldman, 2004, USA	<ul style="list-style-type: none"> CP – Care coordination 	<ul style="list-style-type: none"> Skilled Nursing Visits delivered within 90 days (C)
Filmer, 2020, Germany	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Self-reported cross-cultural behavior - Cultural communication (C)
Forberg, 2016, Sweden	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Hand disinfection (D)
Francke, 1996, Netherlands	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Quality of psychosocial interventions, general (C)
Francke, 1997, Netherlands	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Number of pain intensity assessments (C)
Friese, 2019, USA	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> PPE Use (C)
Funk, 2017, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Accurate rhythm interpretation (D)
Galfin, 2011, UK	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Asked about psychological wellbeing (C)
Gao, 2022, China	<ul style="list-style-type: none"> CP - Symptom Management 	<ul style="list-style-type: none"> Nursing satisfaction regarding Surgical Pain Control (C)
Gengiah, 2021, South Africa	<ul style="list-style-type: none"> CP – Testing/Screening 	<ul style="list-style-type: none"> HTS for PHC clinic attendees (D)
Ghazali, 2020, Malaysia	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> PSBQ (C)
Gomarverdi, 2019, Iran	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Adherence to SP guidelines (C)
Gould, 1997, UK	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Frequency of hand decontamination (C)
Grommi, 2021, Finland	<ul style="list-style-type: none"> CP – Documentation 	<ul style="list-style-type: none"> Documentation audit score (C)
Hammersley, 2014, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Happ, 2014, USA	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Frequency mean number of communication acts in an exchange (MNAE) (C)
Happ, 2015, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Harrison, 2000, South Africa	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Appropriately managed (D)
Hasnain, 2019, Australia	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Domain 1 score = performance indicator (C)
Hasselblad, 2022, USA	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Use of PRN medication (D)
Hendryx, 1998, USA	<ul style="list-style-type: none"> CP - Testing/screening 	<ul style="list-style-type: none"> Laboratory work (D)
Hessig, 2004, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Hlungwane, 2021, South Africa	<ul style="list-style-type: none"> CP - Equipment Management 	<ul style="list-style-type: none"> Practice score (C)
Hödl, 2019, Netherlands	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Hong, 1990, Hong Kong	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Huang, 2009, Taiwan	<ul style="list-style-type: none"> CP - Physical restraints 	<ul style="list-style-type: none"> Practice (C)
Huis, 2013, Netherlands	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Compliance with hand hygiene prescription (D)
Huizing, 2006, Netherlands	<ul style="list-style-type: none"> CP – Physical restraints 	<ul style="list-style-type: none"> Psycho-geriatric nursing home residents restrained (D)
Huizing, 2009, Netherlands	<ul style="list-style-type: none"> CP – Physical restraints 	<ul style="list-style-type: none"> Restrained status - not restrained (D)
Hutchinson, 2020, Australia	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Jansink, 2013, Netherlands	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Motivational interviewing mean score (s.d.) on the BECCI (C)
Jansson, 2014, Finland	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Jansson, 2016, Finland	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Jansson, 2017, Finland	<ul style="list-style-type: none"> CP - Equipment management 	<ul style="list-style-type: none"> Skills in adhering to current oral care recommendations (C)
Jeihooni, 2018, Iran	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Performance (C)
Jo, 2015, South Korea	<ul style="list-style-type: none"> CP - Symptom management 	<ul style="list-style-type: none"> Physical care (C)
Johnson, 2019, Australia	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Number of interruptions per 100 medications (C)
Johnston, 2007, Canada	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Jones, 1998, UK	<ul style="list-style-type: none"> CP – Care coordination 	<ul style="list-style-type: none"> Percentage positioned correctly (D)

Additional file 7. Clinical practice outcomes included in the meta-analyses.

Kalinowski, 2015, Germany	<ul style="list-style-type: none"> CP – Symptom management 	<ul style="list-style-type: none"> Applied NPT nurses (D)
Kaner, 2003, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Karvinen, 2017, Canada	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Self-reported counseling practices (C)
Kavak, 2019, Turkey	<ul style="list-style-type: none"> CP - Physical restraints 	<ul style="list-style-type: none"> Practices Regarding the Use of Physical Restraint (C)
Khodadadi, 2013, Iran	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Quality of care (C)
Kim, 2007, South Korea	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Compliance of aseptic technique (C)
Kim, 2014, South Korea	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Sexual Health Care Practice (C)
Kim, 2022, South Korea	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> ADR Monitoring practice (C)
Kinsman, 2021, Australia	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Koh, 2009, Singapore	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Fall risk assessment (D)
Köpke, 2012, Germany	<ul style="list-style-type: none"> CP – Physical restraint 	<ul style="list-style-type: none"> Prevalence of Physical Restraint Use - Any physical restraint (D)
Kroth, 2006, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Temperatures at impossible levels (D)
Kyriacos, 2015, South Africa	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> MEWS trigger reported (D)
Kyriacos, 2019, South Africa	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Vitals signs (RR recorded) (D)
Lacko, 1999, USA	<ul style="list-style-type: none"> CP – Assessment/examination 	<ul style="list-style-type: none"> Nurse ability to identify delirium (D)
Lau, 2017, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Lee, 2015, South Korea	<ul style="list-style-type: none"> CP - Equipment management 	<ul style="list-style-type: none"> Rate of poor preparation (OBPS > 6) (D)
Lim, 2020, Malaysia	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Lin, 2008, Taiwan	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Liu, 2010, Taiwan	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Frequency of using skills in case management (C)
Liu, 2020, China	<ul style="list-style-type: none"> CP - Equipment management 	<ul style="list-style-type: none"> Bowel preparation (C)
Locke, 2011, USA	<ul style="list-style-type: none"> CP - Testing/screening 	<ul style="list-style-type: none"> Obtaining Capillary Blood Glucose in 14 minutes or less (D)
Lundgren, 1999, Sweden	<ul style="list-style-type: none"> CP - Equipment management 	<ul style="list-style-type: none"> Satisfactory care and handling of the peripheral intravenous vein cannulae by nurses (D)
Magill, 2018, UK	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> BECCI Practitioner Score (C)
Magnan, 2008, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Mäki-Turja-Rostedt, 2020, Finland	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Risk assessment (C)
Mancheril, 2021, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> RASS score (D)
Manias, 2011, Australia	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Nurses' Uptake of Pain Assessment Tools (D)
Marcantonio, 2010, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Nurses detection of delirium (D)
Maruyama, 2022, Japan	<ul style="list-style-type: none"> CP – Counseling/Provision of advice 	<ul style="list-style-type: none"> Types of practiced preparatory/reinforcing behaviors (C)
Mazzuca, 1987, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Percentage of clients who were screening for joint pain by nurses (D)
McDonald, 2005, USA	<ul style="list-style-type: none"> CP – Assessment/examination 	<ul style="list-style-type: none"> Presence of pain (D)
Memon, 2022, Pakistan	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Practice score of AMTSL (C)
Meyer, 2001, South Africa	<ul style="list-style-type: none"> CP - Prescription 	<ul style="list-style-type: none"> Average no. of items per prescription for upper respiratory tract infection (C)
Meyer, 2003, Germany	<ul style="list-style-type: none"> CP - Equipment Management 	<ul style="list-style-type: none"> % Residents who used hip protector (D)
Michaels, 2007, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Middleton, 2011, Australia	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Swallowing screening within 24 h of admission to ASU (excluding those who had screens in ED) (D)
Morita, 2009, Japan	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Morita, 2014, Japan	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Self-reported adherence to recommended clinical practice in helping terminally ill patients find meaning in their lives (C)
Mousavi, 2022, Iran	<ul style="list-style-type: none"> CP - Equipment Management 	<ul style="list-style-type: none"> Practice (C)
Muller-Staub, 2008, Switzerland	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Murtaugh, 2005, USA	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Comprehensive HF assessment (D)
Nakatani, 2012, Japan	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Implementation of health education, Fall prevention, For elderly subjects with a history of falls (D)
Nemati, 2022, Iran	<ul style="list-style-type: none"> CP – Care coordination 	<ul style="list-style-type: none"> Quality of handoff (C)
Noome, 2017, Netherlands	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> The ICU nurse assessed the physical needs of the patient (C)
Noordman, 2014, Netherlands	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A

Additional file 7. Clinical practice outcomes included in the meta-analyses.

Nowalk, 2005, USA	<ul style="list-style-type: none"> CP - Immunization 	<ul style="list-style-type: none"> Received First Dose of influenza shot (D)
O'Neil, 2016, USA	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> 100% compliance on dressing quality measures (D)
O'Neill, 1999, Canada	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Ogden, 1997, UK	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Practice nurses' current practices in obesity management - frequency of advice giving per week (C)
Omidi, 2020, Iran	<ul style="list-style-type: none"> CP - Symptom management 	<ul style="list-style-type: none"> Nurses' behavior (End of Life Care) (C)
Oniki, 2003, USA	<ul style="list-style-type: none"> CP – Documentation 	<ul style="list-style-type: none"> Average numbers of charting deficiencies at the end of the shift per Day per Patients (C)
Pagaiya, 2005, Thailand	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Park, 2021, South Korea	<ul style="list-style-type: none"> CP – Care coordination 	<ul style="list-style-type: none"> Fall prevention behavior (C)
Parker, 2013, USA	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Patients with whom a conversation about CAM was initiated (D)
Passos, 2022, Brazil	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Total Module B (C)
Pauwels, 2018, Indonesia	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Cases correctly diagnosed / triaged by nurses (D)
Pitkälä, 2014, Finland	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Number of harmful medications (D)
Quintard, 2010, France	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Nurses auto-evaluation of nosocomial infection prevention practices (C)
Rankin, 2013, Canada	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Triage Accuracy (charts audited by a CTAS expert/ provincial auditor for triage evaluation) (D)
Rantz, 2001, USA	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Scores for the Minimum Data Set Quality indicator #6 (use of 9 or more different medications per residents) - Primary analyses (C)
Reynolds, 2021, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Rhew, 1999, USA	<ul style="list-style-type: none"> CP - Immunization 	<ul style="list-style-type: none"> Total vaccines given by team (D)
Roelands, 2004, Belgium	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Self-reported practice regarding introducing ADs in home nurses: Number of intervention methods applied for nurses (C)
Rothschild, 2005, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Rutherford-Hemming, 2016, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Sadeghi, 2018, Iran	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Practice score regarding standard precautions (C)
Sævareid, 2019, Norway	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Patients who participated in a conversation on end-of-life treatment (D)
Sarna, 2012, USA	<ul style="list-style-type: none"> CP – Care coordination 	<ul style="list-style-type: none"> Differences in Frequency of Smoking Cessation Interventions According to Referral to a Quitline: Baseline and 6-Month Mean Scores by Group Assignment (C)
Sayre, 2012, USA	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Speaking-up scores/measures from baseline to posttest (C)
Schneider, 2006, Netherlands	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> % Medication-Error (S.D.) (Individual Nurse Medication-Error Rate) (D)
Schondelmeyer, 2021, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Seeley, 2008, Sri Lanka	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Segal, 2015, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Senarath, 2017, Israel	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Handwashing before delivery (D)
Seo, 2020, South Korea	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Behaviors (C)
Seto, 1989, Hong Kong	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Discontinuation of recapping needles (D)
Seto, 1991, Hong Kong	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Direct observation: Correct practice (D)
Shevlin, 2002, USA	<ul style="list-style-type: none"> CP - Immunization 	<ul style="list-style-type: none"> Vaccination rate (D)
Smeland, 2022, Norway	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Use of Pain Assessment Tool – Total (D)
Snelgrove-Clarke, 2015, Canada	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Nurses' Use of Guideline Appropriate Care During an Episode of Care (D)
Srikrajang, 2005, Thailand	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Appropriate administration of medication to IV fluid (D)
Sung, 2008, South Korea	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Medication-administration ability (C)
Teasing, 2020, Netherlands	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Hand Hygiene Compliance (D)
Teresi, 2013, USA	<ul style="list-style-type: none"> CP - Incident reporting 	<ul style="list-style-type: none"> Staff reported number of incidents (C)
Titler, 2009, USA	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Around-the-clock administration of an opioid (D)
Tornvall, 2009, Sweden	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Patients health history (D)

Additional file 7. Clinical practice outcomes included in the meta-analyses.

Tsai, 2011a, Taiwan	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Clinical practice (C)
Tsai, 2011b, Taiwan	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Välimäki, 2022, Finland	<ul style="list-style-type: none"> CP – Physical restraints 	<ul style="list-style-type: none"> No. of seclusion events (D)
van de Steeg, 2014, Netherlands	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
van Gaal, 2011a, Netherlands	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Hospitals: Nurses hand hygiene (D) Nursing homes: Nurses' hand hygiene (D)
van Gaal, 2011b, Netherlands	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Hospitals: Nurses hand hygiene (D) Nursing homes: Nurses' hand hygiene (D)
van Lieshout, 2015, Netherlands	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Number of patients who received recommended counselling (D)
Varghese, 2014, India	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> Assessment (C)
Vicdan, 2019, Turkey	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Use of ventrogluteal site for injection (D)
von Lengerke, 2017, Germany	<ul style="list-style-type: none"> CP - Infection control 	<ul style="list-style-type: none"> Nurses - Hand washing compliance rate (D)
Wagner, 2005, Canada	<ul style="list-style-type: none"> CP - Documentation 	<ul style="list-style-type: none"> Near fall documentation (D)
Wald, 2014, USA	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Walsh, 2016, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Wang, 2020, China	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Wang, 2022, China	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Weaver, 2016, South Africa	<ul style="list-style-type: none"> CP – Testing/Screening 	<ul style="list-style-type: none"> Sexually transmitted infection (STI) tasks completed (D)
Westbrook, 2017, Australia	<ul style="list-style-type: none"> CP - Care coordination 	<ul style="list-style-type: none"> Rate (no) of total interruptions per 100 administrations (D)
Wilkinson, 2008, UK	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Communication skills (C)
Wood, 2021, Australia	<ul style="list-style-type: none"> CP – Testing/Screening 	<ul style="list-style-type: none"> Chlamydia testing rates (D)
Woodcock, 1999, UK	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> N/A
Wright, 1997, USA	<ul style="list-style-type: none"> CP – Infection control 	<ul style="list-style-type: none"> Universal precautions-related behaviors (C)
Yang, 2019, Taiwan	<ul style="list-style-type: none"> CP - Assessment/examination 	<ul style="list-style-type: none"> NGT care procedure (C)
Yun, 2022, Korea	<ul style="list-style-type: none"> CP – Assessment/examination 	<ul style="list-style-type: none"> DP Performance (C)
Zarifsanaiey, 2022, Iran	<ul style="list-style-type: none"> CP – Testing/Screening 	<ul style="list-style-type: none"> Behaviour (C)
Ziyaeifard, 2018, Iran	<ul style="list-style-type: none"> CP - Medication administration 	<ul style="list-style-type: none"> Morphine administration (D)
Zohar, 2017, Israel	<ul style="list-style-type: none"> CP - Counseling/provision of advice 	<ul style="list-style-type: none"> Nursing care behaviours (Patient caring) (C)