

CQ20-3 集中治療中の身体拘束(抑制)を避けるべきか？

検索データベース

- MEDLINE (PubMed/Ovid)
- CENTRAL
- 医学中央雑誌
- その他 (CINAHL)

検索式とヒット数

PubMed search strategy(検索日 2019年4月28日)

| | | |
|----|---|---------|
| #1 | “critical care”[mh] OR “intensive care units”[mh] OR “critical illness”[mh] OR “critical care nursing”[mh] | 134636 |
| #2 | “critical care”[tiab] OR “intensive care unit”[tiab] OR “intensive care units”[tiab] OR ICU[tiab] OR “critical illness”[tiab] OR “critically ill”[tiab] OR “intensive care”[tiab] | 188804 |
| #3 | Sepsis[Mesh] OR “Shock, Septic”[Mesh] OR sepsis[tiab] OR (septic[tiab] AND shock[tiab]) | 175309 |
| #4 | #1 OR #2 OR #3 | 382314 |
| #5 | “Restraint, Physical”[mh] OR “physical restraint”[tiab] OR “physical restraints”[tiab] | 14256 |
| #6 | animals [mh] NOT humans [mh] | 4574748 |
| #7 | #4 AND #5 NOT #6 | 273 |

CENTRAL search strategy(検索日 2019年4月28日)

| | | |
|-----|--|-------|
| #1 | MeSH descriptor: [Critical Care] explode all trees | 1918 |
| #2 | MeSH descriptor: [Intensive Care Units] explode all trees | 3260 |
| #3 | MeSH descriptor: [Critical Illness] explode all trees | 1845 |
| #4 | MeSH descriptor: [Critical Care Nursing] explode all trees | 31 |
| #5 | #1 OR #2 OR #3 OR #4 | 5920 |
| #6 | (“critical care”):ti,ab,kw | 3515 |
| #7 | (“intensive care”):ti,ab,kw | 20327 |
| #8 | (“intensive care unit”):ti,ab,kw | 13671 |
| #9 | (“intensive care units”):ti,ab,kw | 5104 |
| #10 | (ICU):ti,ab,kw | 10341 |
| #11 | (“critical illness”):ti,ab,kw | 2988 |

| | | |
|-----|--|-------|
| #12 | ("critically ill"):ti,ab,kw | 5961 |
| #13 | #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 | 27946 |
| #14 | MeSH descriptor: [Sepsis] explode all trees | 3998 |
| #15 | MeSH descriptor: [Shock, Septic] explode all trees | 771 |
| #16 | (sepsis):ti,ab,kw | 10248 |
| #17 | (septic):ti,ab,kw | 4108 |
| #18 | (shock):ti,ab,kw | 9213 |
| #19 | #17 AND #18 | 2738 |
| #20 | #14 OR #15 OR #16 OR #19 | 12972 |
| #21 | MeSH descriptor: [Restraint, Physical] explode all trees | 233 |
| #22 | ("physical restraint"):ti,ab,kw | 101 |
| #23 | ("physical restraints"):ti,ab,kw | 77 |
| #24 | #21 OR #22 OR #23 | 348 |
| #25 | (#5 OR #13 OR #20) AND #19 | 27 |

医学中央雑誌 search strategy(検索日 2019年4月25日)

| | | |
|----|---|--------|
| #1 | ([ICU]/TH or [クリティカルケア]/TH or [ICU 看護]/TH or [クリティカルケア看護]/TH or [危篤]/TH or [敗血症]/TH or [ショック-敗血症性]/TH) and (PT=会議録除く) | 40007 |
| #2 | (ICU/TA or 集中治療室/TA or クリティカルケア/TA or 重症疾患/TA or 重症病態/TA or 重篤/TA or 敗血症/TA or 敗血症性ショック/TA) and (PT=会議録除く) | 84242 |
| #3 | #1 OR #2 | 103299 |
| #4 | ([身体抑制]/TH or 身体抑制/TA or 身体拘束/TA or "physical restraints"/TA or 身体的拘束/TA or 身体的抑制/TA or "physical restraint"/TA) and (PT=会議録除く) | 3453 |
| #5 | #3 and #4 | 229 |
| #6 | #5 and (PT=原著論文) | 110 |

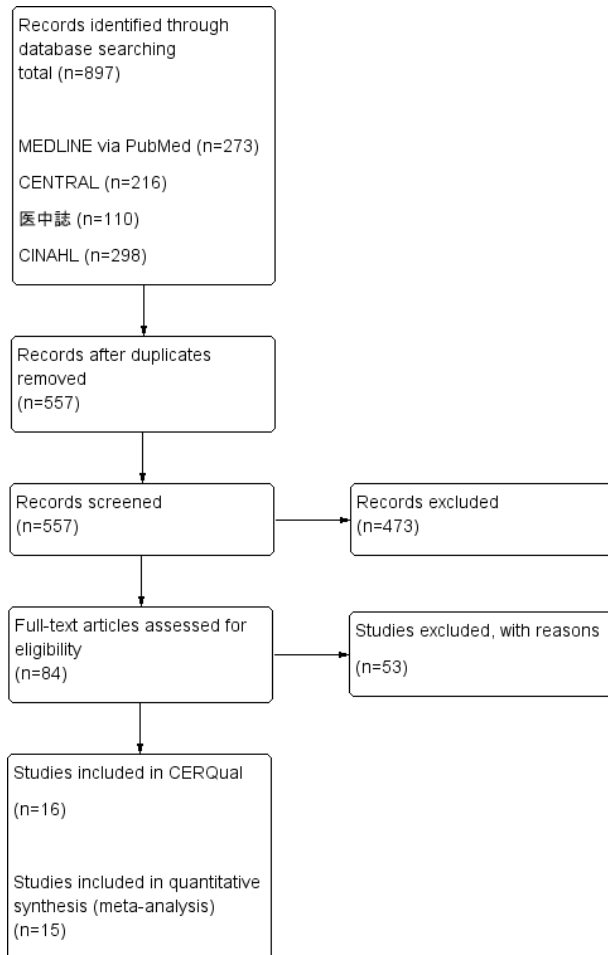
CINAHL search strategy(検索日 2019年4月28日)

| | | |
|----|---|--------|
| #1 | (MH "intensive care units") OR (MH "critical care") OR (MH "critical illness") OR (MH "critical care nursing") OR (MH "sepsis") OR (MH "shock, septic") | 78474 |
| #2 | (AB "critical care") OR (AB "intensive care") OR (AB "ICU") OR (AB "critical illness") OR (AB "critically ill") OR (AB "sepsis") OR | 100145 |

| | | |
|----|--|--------|
| | (AB "septic shock") OR (TI "critical care") OR (TI "intensive care") OR (TI "ICU") OR (TI "critical illness") OR (TI "critically ill") OR (TI "sepsis") OR (TI "septic shock") | |
| #3 | #1 OR #2 | 126539 |
| #4 | (MH "Restraint, Physical") OR (AB "Restraint, Physical") OR (AB "physical restraint") OR (AB "physical restraints") OR (TI "Restraint, Physical") OR (TI "physical restraint") OR (TI "physical restraints") | 4074 |
| #5 | #3 AND #4 | 298 |
| #6 | MEDLINE レコードを除外 | 150 |

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PRISMA フロー図



Risk of Bias サマリー (ROBINS-I)

| Author, Year (Ref.) | Pre-intervention | | At intervention | | Post-intervention | | |
|------------------------------------|-------------------------|--|---|--|--------------------------|---------------------------------|--|
| | Bias due to confounding | Bias in selection of participants into the study | Bias in classification of interventions | Bias due to deviations from intended interventions | Bias due to missing data | Bias in measurement of outcomes | Bias in selection of the reported result |
| Chang LY, et al., 2008 (5) | Moderate | Serious | Serious | Moderate | Moderate | Moderate | Low |
| Chuang ML, et al., 2015 (9) | Serious | Serious | Moderate | Moderate | Moderate | Moderate | Low |
| Gu T, et al., 2018 (17) | Serious | Moderate | Low | Moderate | Moderate | Low | Low |
| Hamilton D, et al., 2017 (19) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Low |
| Kwizera A, et al., 2015 (30) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Low |
| Limpawattana P, et al., 2016 (34) | Moderate | Moderate | Moderate | Moderate | Moderate | Low | Low |
| Luk E, et al., 2014 (37) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Low |
| Micek ST, et al, 2005 (43) | Serious | Moderate | Low | Moderate | Moderate | Low | Low |
| Ozturk Birge A, et al., 2018 (50) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Moderate |
| Perren A, et al., 2015 (52) | Moderate | Moderate | Low | Moderate | Moderate | Low | Low |
| Rose L, et al., 2016 (53) | Serious | Moderate | Moderate | Moderate | Moderate | Low ※ | Low |
| Sanson G, et al., 2018 (55) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Low |
| van der Kooi AW, et al., 2015 (61) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Moderate |
| Van Rompaey B, et al., 2009 (62) | Serious | Moderate | Moderate | Moderate | Moderate | Low | Low |
| Wang J, et al., 2018 (66) | Moderate | Moderate | Moderate | Moderate | Moderate | Low | Low |

※せん妄のみ Moderate

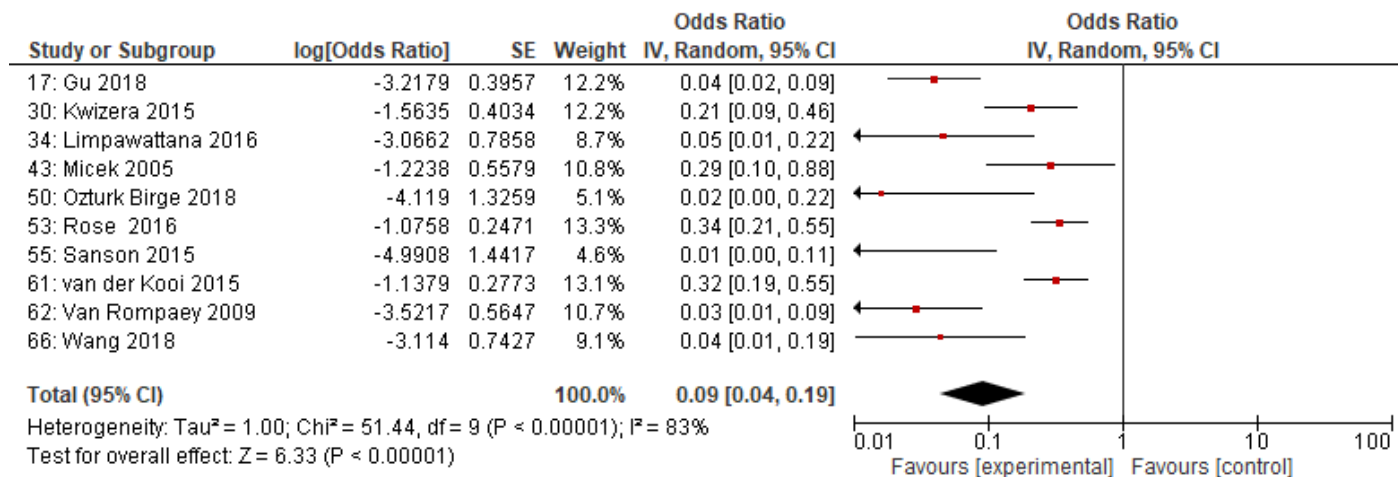
Risk of Bias サマリー (CASP)

| Author, Year (Ref.) | Are the results valid? | | Is it worth continuing? | | | What are the results? | | | Will the results help locally? | |
|-----------------------------|--|---|--|---|--|--|--|--|---|-------------------------------|
| | Was there a clear statement of the aims of the research? | Is a qualitative methodology appropriate? | Was the research design appropriate to address the aims of the research? | Was the recruitment strategy appropriate to the aims of the research? | Was the data collected in a way that addressed the research issue? | Has the relationship between researcher and participants been adequately considered? | Have ethical issues been taken into consideration? | Was the data analysis sufficiently rigorous? | Is there a clear statement of findings? | How valuable is the research? |
| Chang CW, et al., 2013 (4) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | No | Yes |
| Choe K, et al., 2015 (7) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Clukey L, et al., 2014 (10) | Yes | Yes | Yes | Yes | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Dolan J, et al., 2017 (13) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | Yes | Yes |

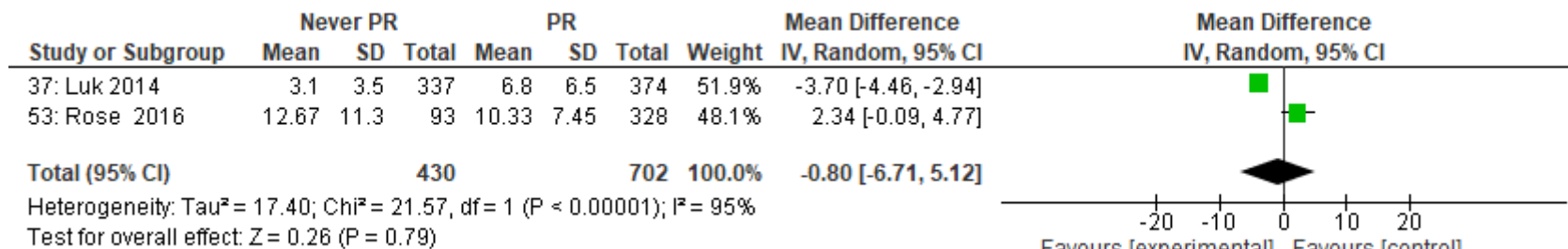
| | | | | | | | | | | |
|----------------------------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|
| Fowler SB, et al., 1997 (15) | Yes | Yes | Yes | Yes | Yes | Can't tell | Yes | No | Yes | Yes |
| Freeman S, et al., 2016 (16) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Happ MB., 2000 (20) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Jiang H, et al., 2015 (25) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Langley G, et al., 2011 (31) | Yes | Yes | Yes | Yes | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Minnick A, et al., 2001 (46) | Yes | Yes | Yes | No | Yes | Can't tell | Yes | Yes | Yes | Yes |
| Via-Clavero G, et al., 2011 (63) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 佐々木 亮輔, 他., 2016 (70) | Yes | Yes | Yes | Yes | Yes | Can't tell | Yes | Yes | Yes | Yes |
| 桑原 美香, 他., 2015 (77) | Yes | Yes | Yes | Yes | Yes | Can't tell | Yes | Yes | Yes | Yes |

フォレストプロット

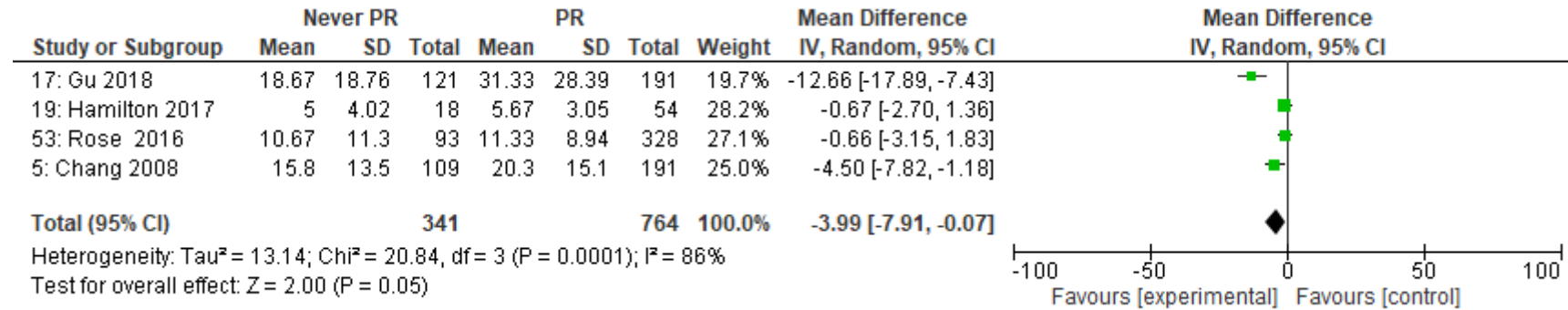
せん妄発症率



人工呼吸器装着期間



ICU 在室期間



デバイスの計画外抜去発生率

