e-Table 1 Search strategy

1. MEDLINE

Performed on 2019/05/17

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| **Number** | **Searched for** |
| **Component 1. Included patients** |
| #1 | Respiratory distress syndrome, adult [MH] OR shock lung OR acute respiratory distress syndrome OR adult respiratory distress syndrome |
| #2 | Acute lung injury [MH] OR Acute lung injury OR Acute lung injuries |
| #3 | ARDS OR ALI |
| #4 | #1 OR #2 OR #3 |
| **Component 2. Ventilator strategies** |
| #5 | Tidal volume [MH] OR Tidal volumes OR Tidal volume |
| #6 | Respiration, Artificial[MH] OR Artificial respiration OR Mechanical　ventilation OR Mechanical ventilations |
| #7 | pressure\* limited\* OR "volume limited" OR LPVS OR lung protective ventilat\* |
| #8 | #5 OR #6 OR #7 |
| #9 | #4 AND #8 |
| **Component 3. Study design and language limit** |
| #10 | Clinical trial[pt] OR trial[ti] OR randomized controlled trial[pt]　 　OR(controlled clinical trial[pt] OR randomized[tiab])OR placebo[tiab] OR　clinical trials as topic[MH] OR randomly[tiab] |
| #11 | Animals[MH] NOT (Animals[MH] AND Humans[MH]) |
| #12 | #10 NOT #11 |
| #13 | #9 AND #12 |

1. CENTRAL

Performed on 2019/05/17

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| **Number** | **Searched for** |
| **Component 1. Included patients** |
| #1 | MeSH descriptor: [Respiratory Distress Syndrome, Adult] explode all trees |
| #2 | acute lung injury |
| #3 | Adult Respiratory Distress Syndrome |
| #4 | Acute Respiratory Distress Syndrome |
| #5 | ARDS or ALI |
| #6 | #1 or #2 or #3 or #4 or #5 |
| **Component 2. Ventilator strategies** |
| #7 | MeSH descriptor: [Tidal Volume] explode all tree |
| #8 | artificial near ventilation |
| #9 | tidal volume |
| #10 | protective near ventilation |
| #11 | pressure-limited |
| #12 | LPVS |
| #13 | #7 or #8 or #9 or #10 or #11 or #12 |
| #14 | #6 and #13 |

1. EMBASE

Performed on 2019/5/17

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| **Number** | **Searched for** |
| **Component 1. Included patients** |
| #1 | EMB.EXACT("adult respiratory distress syndrome") OR ("shock lung" OR "human ARDS" OR "acute respiratory distress syndrome" OR "adult respiratory distress syndrome") |
| #2 | EMB.EXACT("acute lung injury") OR ("acute lung injuries" OR "acute lung injury") |
| #3 | TI,AB(ARDS) OR TI,AB(ALI) |
| #4 | #1 OR #2 OR #3 |
| **Component 2. Ventilator strategies** |
| #5 | EMB.EXACT.EXPLODE("tidal volume") OR ("tidal volumes" OR "tidal volume") |
| #6 | EMB.EXACT.EXPLODE("artificial ventilation") OR ("artificial respiration" OR "mechanical ventilation" OR "mechanical ventilations") |
| #7 | pressure-limited OR pressure\* limited\* OR “volume limited” OR LPVS OR lung protective ventilat\* |
| #8 | #5 OR #6 OR #7 |
| #9 | #4 AND #8 |
| **Component 3. Study design** |
| #10 | (EMB.EXACT("controlled clinical trial") OR EMB.EXACT.EXPLODE("clinical trial (topic)") OR EMB.EXACT("randomized controlled trial")) OR (TI,AB(randomized) OR TI,AB(randomly) OR TI(trial) OR TI,AB(placebo)) |
| #11 | #9 AND #10 |
| **Component 4. Language limit** |
| #12 | #11 NOT (ANIMAL(YES) NOT HUMAN(YES)) |
| #13 | #12 AND PD(>=20150401) |

1. Ichushi

Performed on 2019/05/17

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| **Number** | **Searched for** |
| **Component 1. Included patients** |
| #1 | 呼吸窮迫症候群-急性/TH or ARDS/AL |
| #2 | 急性肺損傷/TH or 急性肺損傷/AL |
| #3 | #1 or #2 |
| **Component 2. Ventilator strategies** |
| #4 | 一回換気量/TH or 一回換気量/AL |
| #5 | 人工呼吸/TH or 人工呼吸/AL or レスピレータ装/AL or 機械的換気/AL or 人工換気量/AL or 人工呼吸管理/AL or 人工呼吸法/AL or 人工呼吸療法/AL or 調節呼吸/AL |
| #6 | 人工呼吸器/TH or 人工呼吸器/AL or ベンチレータ/AL or ベンチレーター/AL or レスピレータ/AL or レスピレーター/AL or 機械的ベンチレータ/AL or 機械的ベンチレーター/AL or 肺ベンチレータ/AL or 肺ベンチレーター/AL |
| #7 | #4 or #5 or #6 |
| #8 | #3 and #7 |