**eTable 1. Ovid search strategies**

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| **MEDLINE SEARCH STRATEGY** |
| **1. Trauma**  exp "Craniocerebral Trauma"/ OR "Craniocerebral Trauma".ti,ab. OR "head injur$".ti,ab. OR "traumatic brain injur$".ti,ab. OR Fracture.ti,ab. OR Injur$.ti,ab. OR exp "Motor Vehicles"/ OR "motor vehicle collision".ti,ab. OR "motor vehicle crash".ti,ab. OR "Traffic accidents".ti,ab. OR Spinal Cord Injuries/ OR Spinal Cord Injur$.ti,ab. OR Spinal cord trauma?.ti,ab. OR Trauma?.ti,ab. OR Wound$.ti,ab. OR exp "Wounds and Injuries"/ |
| **2. Criteria to evaluate overuse**  De-adopt$.ti,ab. OR Decommission$.ti,ab. OR de-commission$.ti,ab. OR Deimplent$.ti,ab. OR De-list$.ti,ab. OR Disinvest$.ti,ab. OR dis-invest$.ti,ab. OR Do-not-do.ti,ab. OR Harm$.ti,ab. OR "patient harm"/ OR Inappropriate$.ti,ab. OR Ineffective$.ti,ab. OR "low quality".ti,ab. OR "low-value".ti,ab. OR Misuse.ti,ab. OR "Health Services Misuse"/ OR (overuse$.ti,ab. not "overuse injury".ti,ab.) OR "medical overuse"/ OR "poor quality".ti,ab. OR "practice reversal".ti,ab. OR "medical reversal".ti,ab. OR Unnecessary.ti,ab. OR "Unnecessary Procedures"/ OR Unneeded.ti,ab. OR Wasteful.ti,ab. |
| **3. Human animals only**  Animals/ NOT humans/ |
| **4. Years**  ("2006" or "2007" or "2008" or "2009" or "2010" or "2011" or "2012" or "2013" or "2014" or "2015" or "2016" or "2017" or "2018").yr. |
| **Finalization**  **5. (1 AND 2 AND 4) NOT 3**  **6. Limit 5 to English language** |
| **EMBASE SEARCH STRATEGY** |
| **1. Trauma**  exp "Craniocerebral Trauma"/ OR "Craniocerebral Trauma".ti,ab. OR "head injur$".ti,ab. OR "traumatic brain injur$".ti,ab. OR Fracture.ti,ab. OR Injur$.ti,ab. OR exp "Motor Vehicles"/ OR "motor vehicle collision".ti,ab. OR "motor vehicle crash".ti,ab. OR "Traffic accidents".ti,ab. OR Spinal Cord Injuries/ OR Spinal Cord Injur$.ti,ab. OR Spinal cord trauma?.ti,ab. OR Trauma?.ti,ab. OR Wound$.ti,ab. OR exp "Wounds and Injuries"/ |
| **2. Criteria to evaluate overuse**  De-adopt$.ti,ab. OR Decommission$.ti,ab. OR de-commission$.ti,ab. OR Deimplent$.ti,ab. OR De-list$.ti,ab. OR Disinvest$.ti,ab. OR dis-invest$.ti,ab. OR Do-not-do.ti,ab. OR Harm$.ti,ab. OR "patient harm"/ OR Inappropriate$.ti,ab. OR Ineffective$.ti,ab. OR "low quality".ti,ab. OR "low-value".ti,ab. OR Misuse.ti,ab. OR "Health Services Misuse"/ OR (overuse$.ti,ab. not "overuse injury".ti,ab.) OR "medical overuse"/ OR "poor quality".ti,ab. OR "practice reversal".ti,ab. OR "medical reversal".ti,ab. OR Unnecessary.ti,ab. OR "Unnecessary Procedures"/ OR Unneeded.ti,ab. OR Wasteful.ti,ab. |
| **3. Human animals only**  Animals/ NOT humans/ |
| **4. Years**  ("2006" or "2007" or "2008" or "2009" or "2010" or "2011" or "2012" or "2013" or "2014" or "2015" or "2016" or "2017" or "2018").yr. |
| **Finalization**  **5. (1 AND 2 AND 4) NOT 3**  **6. limit 5 to English language** |