Supplementary Material: Complete Electronic Search Strategy

Database Searched: PubMed, Scopus, and Cochrane Library (Central Register of Controlled Trials - CENTRAL)

Search Date: June 15, 2026

Language Restriction: English only

Publication Date Range: Inception to June 15, 2026

1. PubMed / MEDLINE

- **Search Query:**

Plaintext

(("Robotic Surgical Procedures"[Mesh] OR "Robotics"[Mesh] OR "robot-assisted"[Title/Abstract] OR "robotic surgery"[Title/Abstract] OR "robotic approach"[Title/Abstract] OR "da Vinci"[Title/Abstract])

AND

("Emergency Treatment"[Mesh] OR "Emergencies"[Mesh] OR "Trauma Centers"[Mesh] OR "emergency surgery"[Title/Abstract] OR "emergency general surgery"[Title/Abstract] OR "acute care surgery"[Title/Abstract] OR "non-elective surgery"[Title/Abstract] OR "trauma surgery"[Title/Abstract] OR "emergency surgical"[Title/Abstract])

AND

("Surgical Procedures, Minimally Invasive"[Mesh] OR "minimally invasive"[Title/Abstract]))

- **Filters Applied:** Humans, English, All Adult (18+ years).

- **Results Retrieved** 4133

2. Scopus (Elsevier)

- **Search Query:**

Plaintext

TITLE-ABS-KEY (("robotic surgery" OR "robot-assisted" OR "robotic procedure" OR "da Vinci")

AND

("emergency surgery" OR "emergency general surgery" OR "acute care surgery" OR "trauma surgery" OR "non-elective")

AND

("minimally invasive"))

AND

LIMIT-TO (LANGUAGE , "English")

AND

LIMIT-TO (EXACTKEYWORD , "Human")

- **Filters Applied:** Language: English; Subject Area: Medicine; Source Type: Journals.

- **Results Retrieved:** [Inserire numero, es. *612*]

3. Cochrane Library (CENTRAL)

- **Search Query:**

Plaintext

#1 MeSH descriptor: [Robotic Surgical Procedures] explode all trees

#2 "robot-assisted" OR "robotic surgery" OR "robotic approach":ti,ab,kw

#3 #1 OR #2

#4 MeSH descriptor: [Emergencies] explode all trees

#5 "emergency surgery" OR "acute care surgery" OR "emergency general surgery" OR "trauma surgery":ti,ab,kw

#6 #4 OR #5

#7 #3 AND #6

- **Filters Applied:** Word variations searched, all article types, English.

- **Results Retrieved:** 32

Summary of Initial Search Results

Database	Records Identified
PubMed / MEDLINE	3200
Scopus	720
Cochrane Library (CENTRAL)	213
Total Identified	**4133**
Duplicates Removed	317
Total Unique Records Screened	**3816**