**Appendix 1. Search strategy**

**PICO framework**48

***Population:***

Emergency video calls to emergency medical dispatch centers in all types of emergency medical services all around the world due to all the spectrum of medical reasons, events and conditions.

***Intervention:*** A video emergency calls via smartphone to the emergency medical dispatch center.

***Control:*** If applicable, the controls will be the standard audio emergency calls to any type of emergency medical dispatch center.

***Outcome:*** All types of studies will be analyzed and all types of outcomes will be assessed.

**Search summary**

Date of Search: March 1, 2022

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Database Name** | **Platform** | **Date Range** | **Date of Search** | **# of results** |
| Pubmed |  | 2012-2022 | March 1, 2022 | 249 |
| Web of Science |  | 2012-2022 | March 1, 2022 | 150 |
| Scopus |  | 2012-2022 | March 1, 2022 | 93 |
|  | Google Scholar | 2012-2022 | March 1, 2022 | 193 |
| Clinicaltrial.gov |  | 2012-2022 | March 1, 2022 | 10 |
|  | Reference search | 2012-2022 | Not applicable / selected papers. | Not applicable at this phase. |
| Grey literature* EBSCO Open Dissertations
* Proquest eBook Central
* Proquest One Academic
* UKAZ
* Internet search
 | 2012-2022 | March 1, 2022 | ----1 |

**Total Records = 696**

**Total Records after deduplication = 648**

**Search strategy**

**PubMed**

Date of Search: March 1, 2022

Number of results: 249

|  |  |  |
| --- | --- | --- |
| **#** | **Search string** | **# of results** |
| 1 | “Prehospital” | 19843 |
| 2 | “Pre-hospital” | 5621 |
| 3 | “Emergency medical service” | 5527 |
| 4 | “Ambulanc\*” | 19211 |
| 5 | “Emergenc\*” | 619489 |
| 6 | Emergency medical services [MeSH]  | 158841 |
| 7 | Ambulances [MeSH]  | 9453 |
| 8 | (("Prehospital") OR ("Pre-hospital") OR ("Emergency medical service") OR ("Ambulanc\*") OR ("Emergenc\*") OR (Emergency medical services [MeSH]) OR (Ambulances [MeSH]))  | 650003 |
| 9 | “Dispatch\*” | 4011 |
| 10 | “Dispatch center\*” | 216 |
| 11 | “Medical dispatch\*” | 535 |
| 12 | Call centers [MeSH]  | 109 |
| 13 | Emergency medical dispatch [MeSH]  | 167 |
| 14 | Emergency medical dispatcher [MeSH]  | 70 |
| 15 | (("dispatch\*") OR ("dispatch center\*") OR ("medical dispatch\*") OR (Call centers [MeSH]) OR (Emergency medical dispatch [MeSH]) OR (Emergency medical dispatcher [MeSH])) | 4110 |
| 16 | “video” | 130331 |
| 17 | “emergency call\*” | 1055 |
| 18 | “video call\*” | 412 |
| 19 | “videoconference\*” | 1178 |
| 20 | “live video” | 403 |
| 21 | “real time video” | 554 |
| 22 | “video stream\*” | 571 |
| 23 | (("video") OR ("emergency call\*") OR ("video call\*") OR ("videoconferenc\*") OR ("live video\*") OR ("real time video\*") OR ("video stream\*")) | 134529 |
| 24 | (("Prehospital") OR ("Pre-hospital") OR ("Emergency medical service") OR ("Ambulanc\*") OR ("Emergenc\*") OR (Emergency medical services [MeSH]) OR (Ambulances [MeSH])) AND (("dispatch\*") OR ("dispatch center\*") OR ("medical dispatch\*") OR (Call centers [MeSH]) OR (Emergency medical dispatch [MeSH]) OR (Emergency medical dispatcher [MeSH])) AND (("video") OR ("emergency call\*") OR ("video call\*") OR ("videoconferenc\*") OR ("live video\*") OR ("real time video\*") OR ("video stream\*")) | 344 |
| 25 | #24 AND "2012/01/01"[Date - Publication] : "3000"[Date - Publication] | 264 |
| 26 | #25 AND (English[Language]) | 249 |

(((("Prehospital") OR ("Pre-hospital") OR ("Emergency medical service") OR ("Ambulanc\*") OR ("Emergenc\*") OR (Emergency medical services [MeSH]) OR (Ambulances [MeSH])) AND (("dispatch\*") OR ("dispatch center\*") OR ("medical dispatch\*") OR (Call centers [MeSH]) OR (Emergency medical dispatch [MeSH]) OR (Emergency medical dispatcher [MeSH])) AND (("video") OR ("emergency call\*") OR ("video call\*") OR ("videoconferenc\*") OR ("live video\*") OR ("real time video\*") OR ("video stream\*"))) AND (("2012/01/01"[Date - Publication] : "3000"[Date - Publication]))) AND (English[Language])

<https://pubmed.ncbi.nlm.nih.gov/?term=%28%28%22Prehospital%22%29+OR+%28%22Pre-hospital%22%29+OR+%28%22Emergency+medical+service%22%29+OR+%28%22Ambulanc%2A%22%29+OR+%28%22Emergenc%2A%22%29+OR+%28Emergency+medical+services+%5BMeSH%5D%29+OR+%28Ambulances+%5BMeSH%5D%29%29+AND+%28%28%22dispatch%2A%22%29+OR+%28%22dispatch+center%2A%22%29+OR+%28%22medical+dispatch%2A%22%29+OR+%28Call+centers+%5BMeSH%5D%29+OR+%28Emergency+medical+dispatch+%5BMeSH%5D%29+OR+%28Emergency+medical+dispatcher+%5BMeSH%5D%29%29+AND+%28%28%22video%22%29+OR+%28%22emergency+call%2A%22%29+OR+%28%22video+call%2A%22%29+OR+%28%22videoconferenc%2A%22%29+OR+%28%22live+video%2A%22%29+OR+%28%22real+time+video%2A%22%29+OR+%28%22video+stream%2A%22%29%29&filter=lang.english&filter=years.2012-2022&show_snippets=off&sort=date&size=200>

**Conversion of the search strategy syntax for other databases searched**

**Database name: SCOPUS**

Date of Search: March 1, 2022

Number of results: 93

|  |  |  |
| --- | --- | --- |
| **#** | **Search string** | **# of results** |
| 1 | TITLE-ABS-KEY ( ( ( emergency AND call OR video ) AND ( emergency AND medical AND services AND dispatching ) ) ) | 168 |
| 2 | LIMIT-TO ( PUBYEAR , 2012 - 2022 )  | 102 |
| 3 | LIMIT-TO ( LANGUAGE , "English" | 93 |
| 4 | Total | 93 |

TITLE-ABS-KEY ( ( ( emergency AND call OR video ) AND ( emergency AND medical AND services AND dispatching ) ) ) AND ( LIMIT-TO ( PUBYEAR , 2022 ) OR LIMIT-TO ( PUBYEAR , 2021 ) OR LIMIT-TO ( PUBYEAR , 2020 ) OR LIMIT-TO ( PUBYEAR , 2019 ) OR LIMIT-TO ( PUBYEAR , 2018 ) OR LIMIT-TO ( PUBYEAR , 2017 ) OR LIMIT-TO ( PUBYEAR , 2016 ) OR LIMIT-TO ( PUBYEAR , 2015 ) OR LIMIT-TO ( PUBYEAR , 2014 ) OR LIMIT-TO ( PUBYEAR , 2013 ) OR LIMIT-TO ( PUBYEAR , 2012 ) ) AND ( LIMIT-TO ( LANGUAGE , "English" ) )

https://www.scopus.com/results/results.uri?sort=plf-f&src=s&sid=119d4e25c53ad9fa2538fbb594087b47&sot=a&sdt=a&cluster=scopubyr%2c%222022%22%2ct%2c%222021%22%2ct%2c%222020%22%2ct%2c%222019%22%2ct%2c%222018%22%2ct%2c%222017%22%2ct%2c%222016%22%2ct%2c%222015%22%2ct%2c%222014%22%2ct%2c%222013%22%2ct%2c%222012%22%2ct%2bscolang%2c%22English%22%2ct&sl=112&s=TITLE-ABS-KEY+%28+%28+%28+emergency+AND+call+OR+video+%29+AND+%28+emergency+AND+medical+AND+services+AND+dispatching+%29+%29+%29&origin=searchadvanced&editSaveSearch=&txGid=560d4ec5c70cb7d8ce4a0d7360b227fe

**Database name: Web of Science (Clarivate)**

Date of Search: March 1, 2022

Number of results: 150

|  |  |  |
| --- | --- | --- |
| **#** | **Search string** | **# of results** |
| 1 | ALL = (emergency AND medical AND services ) AND ALL = (video\* OR stream\*) AND ALL = (call\* OR emergency AND call\*OR medical AND dispatch\*) | 193 |
| 2 | AND Timespan: 2012-01-01 to 2022-02-09 (Publication Date) | 156 |
| 3 | AND English (language) | 150 |
| 4 | Total | 150 |

https://www.webofscience.com/wos/woscc/summary/9a9c29aa-b4f6-4706-9f7b-d4f856dded9f-26b6ed46/relevance/1

**Database name: Google Scholar**

Date of Search: March 1, 2022

Number of results: 193

|  |  |  |
| --- | --- | --- |
| **#** | **Search string** | **# of results** |
| 1 | emergency call\* AND video AND "emergency medical service\*" AND medical dispatching | 193 |
| 2 | Years 2012-2022 |
| 3 | Sorted by relevance |
| 4 | Citations / Patents not included |

[https://scholar.google.com/scholar?start=0&q=emergency+call\*+AND+video+AND+%22emergency+medical+service\*%22+AND+medical+dispatching&hl=cs&as\_sdt=0,5&as\_ylo=2012&as\_yhi=2022&as\_rr=1&as\_vis=1](https://scholar.google.com/scholar?start=0&q=emergency+call*+AND+video+AND+%22emergency+medical+service*%22+AND+medical+dispatching&hl=cs&as_sdt=0,5&as_ylo=2012&as_yhi=2022&as_rr=1&as_vis=1)

**Database name: ClinicalTrials.gov**

Date of Search: March 1, 2022

Number of results: 9

|  |  |  |
| --- | --- | --- |
| **#** | **Search string** | **# of results** |
| 1 | Condition or disease: video call | 10 |
| 2 | Other terms: emergency |
| 3 | Years 2012-2022, no other limits (filters) |

<https://www.clinicaltrials.gov/ct2/results?cond=video+call&term=emergency&type=&rslt=&age_v=&gndr=&intr=&titles=&outc=&spons=&lead=&id=&cntry=&state=&city=&dist=&locn=&rsub=&strd_s=&strd_e=&prcd_s=&prcd_e=&sfpd_s=01%2F01%2F2012&sfpd_e=&rfpd_s=&rfpd_e=&lupd_s=&lupd_e=&sort>=

**Appendix 2. Data extraction chart**

|  |
| --- |
| **Scoping Review Details** |
| Scoping Review title: | **Video emergency calls in medical dispatching: a scoping review.** |
| Review objective/s: | The main objective of this review is to examine the scope and nature of research publications on the topic of medical dispatching in pre-hospital emergency care with added real time video to an emergency call. The secondary goal is to identify research gaps and discuss the potential directions of research efforts of video emergency calls. |
| **Inclusion/Exclusion Criteria** |
| Population | All video emergency calls to a medical dispatching |
| Concept | Smartphone based |
| Context | Video emergency calls to a medical dispatching in any emergency clinical events or simulation scenarios |
| Types of evidence source | All |
| **Evidence source Details and Characteristics** |
| Citation detail |  |
| Year |  |
| Country |  |
| Aims |  |
| Participants details(study population and sample size) |  |
| Context |  |
| Methodology |  |
| Intervention type, comparator and details of these (e.g. duration of the intervention) (if applicable)  |  |
| Duration of the intervention (if applicable)  |  |
| Outcomes and details of these (e.g. how measures) (if applicable) |  |
| Key findings that relate to the scoping review question/s |  |

Proposed with modification from source: Peters MDJ, Godfrey C, McInerney P, Munn Z, Tricco AC, Khalil, H. Chapter 11: Scoping Reviews (2020 version). In: Aromataris E, Munn Z (Editors). *JBI Manual for Evidence Synthesis*, JBI, 2020.  Available from [https://synthesismanual.jbi.global](https://synthesismanual.jbi.global/).  <https://doi.org/10.46658/JBIMES-20-12>