**Supplemental Table 1.** Search Strategy for each database

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | 1. **Medline** | | | | **#** | **Query** | **Results from 9 Feb 2022** | | 1 | exp Disasters/ | 93,876 | | 2 | exp Mass Casualty Incidents/ | 2,345 | | 3 | (casualt\* or disaster\*) | 57,669 | | 4 | (triage\* or prioritis\* or prioritiz\*) | 28,591 | | 5 | exp Emergency Medical Services/ | 158,452 | | 6 | "Emergency medical service\*" OR “EMS” | 58,318 | | 7 | Ambulance\* | 17,015 | | 8 | Prehospital\* or pre-hospital\* | 19,395 | | 9 | (delay\* or time\* or timing\*) | 5,561,166 | | 10 | 1 or 2 or 3 | 116,314 | | 11 | 5 or 6 or 7 or 8 | 178,478 | | 12 | 4 and 9 and 10 and 11 | 792 | | <https://ovidsp.ovid.com/athens/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=7SJCJur2Fr4Np4dObOyUOLj1CBABNsisb6Ypi2XwBzeHpI3VrEB3ysLLhYuhB0HD0>  Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions(R) <1946 to February 09, 2022> | | |  |  |  |  | | --- | --- | --- | | 1. CINAHL | | | | # | **Query** | **Results** | | S12 | S4 AND S9 AND S10 AND S11 | 278 | | S11 | S5 OR S6 OR S7 OR S8 | 126,284 | | S10 | S1 OR S2 OR S3 | 43,914 | | S9 | delay\* or time\* or timing\* | 1,002,158 | | S8 | Prehospital\* or pre-hospital\* | 21,031 | | S7 | ambulance\* | 9,646 | | S6 | "Emergency Medical Service\*" OR "EMS" | 33,550 | | S5 | (MH "Emergency Medical Services+") | 113,466 | | S4 | triage\* or prioritis\*or prioritiz\* | 17,034 | | S3 | casualt\* OR disaster\* | 39,161 | | S2 | (MH "Mass Casualty Incidents") | 2,299 | | S1 | (MH "Disasters+") | 36,405 |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1. **Embase Session Results** | | | | | | No.  Query | | Query | Results | | | #1 | | 'mass disaster'/exp | 3,011 | | | #2 | | 'disaster'/exp | 32,486 | | | #3 | | casualt\* OR disaster\* | 79,431 | | | #4 | | triage\* OR prioritis\* OR prioritiz\* | 100,857 | | | #5 | | 'emergency health service'/exp | 118,228 | | | #6 | | 'emergency medical service\*' OR ‘EMS’ | 61,200 | | | #7 | | ambulance\* | 26,905 | | | #8 | | Prehospital\* or pre-hospital\* | 32,242 | | | #9 | | delay\* OR time\* OR timing\* | 7,216,935 | | | #10 | | #1 OR #2 OR #3 | 79,522 | | | #11 | | #5 OR #6 OR #7 OR #8 | 159,411 | | | #12 | | #4 AND #9 AND #10 AND #11 | 698 | | | Query  (triage\* OR prioritis\* OR prioritiz\*) AND (delay\* OR time\* OR timing\*) AND ('mass disaster'/exp OR 'mass disaster' OR 'disaster'/exp OR 'disaster' OR casualt\* OR disaster\*) AND ('emergency health service'/exp OR 'emergency health service' OR 'emergency medical service\*' OR 'ems' OR ambulance\* OR prehospital\* OR 'pre hospital\*') | | | | | | 1. **Web of Science** | | | | | | | No.  Query | Query | | | Results | | | #1 | disaster\* | | | [164,740](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/0b0fc4ae-0958-44c5-ab46-da388260058f-2286bbfa/relevance/1) | | | #2 | "Mass Casualty Incident\*" | | | [969](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/5f939202-3b5e-4308-82fb-e7b54fa1ccbc-2286c160/relevance/1) | | | #3 | casualt\* | | | [19,481](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/634e74af-3602-457b-8076-3c0f9c073178-2286ccec/relevance/1) | | | #4 | triage\* or prioritis\*or prioritiz\* | | | [26,137](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/7c08382f-85a0-4fa5-95a4-d810ed1f610c-2286d240/relevance/1) | | | #5 | "Emergency medical service\*" OR "EMS" | | | [40,792](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/bbdcf7a7-b660-4bab-ac2b-f92ca98842a1-228d77fb/relevance/1) | | | #6 | Ambulance\* | | | [14,354](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/fbfb196a-f2ea-4d0d-92e9-1d45c36a476d-2286d8d4/relevance/1) | | | #7 | Prehospital\* or pre-hospital\* | | | [16,621](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/cb4d5ba6-eeaa-4ff2-a1ed-cda0b79e8e7e-2286dc11/relevance/1) | | | #8 | delay\* or time\* or timing\* | | | [9,899,583](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/ba96100e-fa95-4ed3-8b3f-04310ac0c9fd-228d4e79/relevance/1) | | | #9 | #1 OR #2 OR #3 | | | [180,694](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/504583a7-df6a-4e72-9131-962a0457b7e2-228d56be/relevance/1) | | | #10 | #5 OR #6 OR #7 | | | [61,719](https://www-webofscience-com.ezproxy.library.qmul.ac.uk/wos/woscc/summary/04dd68dc-2721-4a9d-9b69-ece9c2fbcd1c-228d7811/relevance/1) | | | #11 | #9 AND #10 AND #8 AND #4 | | | 224 | | | <https://www.webofscience.com/wos/woscc/summary/73180f6c-c504-49cc-a90a-330b92f34370-22c2606f/relevance/1> | | | | | | |



**Supplemental Figure 1.** Heatmap represents differing MCIs and study locations. Greyscale indicates the number of incidents from white=0, grey=1, and black=2

**Supplemental Table 2.** The number of triaged injured (on-scene) and their classifications in every incident

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study** | **Triaged**  **patients** | **Red**  **(Critical)**  **P1** | **Yellow**  **(Delayed)**  **P2** | **Green**  **(Minor)**  **P3** | **Black**  **(Dead on-scene)**  **P4** |
| Travers 2019 23 | 183 | 46 | 32 | 94 | 11 |
| McLeod 200724 | 528 | 107 | 243 | 166 | 12 |
| Welling 200825 | 245 | N/A | N/A | N/A | 4 |
| Kahn 200926 | 149 | 22 | 68 | 58 | 1 |
| O'Keefe 199928 | 17 | 2 | 2 | 12 | 1 |
| Mulvey 202129 | 25 | 11 | N/A | N/A | 3 |
| Postma 201130 | 135 | 35 | N/A | N/A | 9 |
| Ming-Wei 20231 | 499 | 226 | 163 | 86 | N/A |
| Raiter 200832 | 91 | 12 | 14 | 59 | 6 |
| Leiba 200633 | 39 | 21 | N/A | N/A | 2 |
| Raux 201927 | 262 | N/A | N/A | N/A | 123 |
| Sollid 201222 | 64 | N/A | N/A | N/A | N/A |
| **Total patients** | 2237 | 482 (29.0%) | 522 (35.6.5%) | 475 (32.4%) | 172 (10.8%) |

Abbreviations: N/A, The triage number was not reported.