

Appendix 1. Full search strategy of databases to identify studies assessing the triage accuracy of START in disaster and mass casualty incidents.

Ovid MEDLINE(R) ALL <1946 to March 20, 2020>

#	Search Statement	Results
1	Start triage.mp.	28
2	(Simple Triage and Rapid).mp.	87
3	(start and triage*).ti. ["jumpstart" not searched because it is the pediatric version of START]	31
4	1 or 2 or 3	108
5	("mass casualty*" or (mass adj3 incident*) or disaster*).ti,ab,kw. or exp *Mass Casualty Incidents/ or exp *Disasters/	59960
6	triag*.ti.	5328
7	5 and 6	490
8	(MSK or (STOPP adj2 START) or "back tool").mp. or (sydney or "back screen*").ti,ab.	11745
9	4 or 7	537
10	9 not 8	532
11	limit 10 to yr="1983 -Current"	512

Embase <1974 to 2020 March 20>

#	Search Statement	Results
1	mSTART.mp. ["modified START" not included because all relevant records in Medline also included in retrieval for lines 2 and 3]	15
2	"Simple Triage and Rapid".mp.	89
3	((START adj5 triage*) or (START adj2 tool)).mp. ["JUMPSTART" not searched because it is the pediatric version of START]	368
4	1 or 2 or 3	394

5	("mass casualt*" or (mass adj3 incident*) or disaster*).ti,ab,kw. or *disaster/ or *mass disaster/ or *natural disaster/ or *rescue work/ or *disaster medicine/	38428
6	triag*.ti.	7187
7	5 and 6	489
8	4 or 7	799
9	sydney.ti,ab,kw. or ("back screen*" or "back tool*" or MSK or (START adj1 STOPP)).mp.	18107
10	8 not 9	641
11	limit 10 to yr="1983 -Current" [date START was introduced. Limit used to prevent retrieval pre-1983 articles relating to mass casualty and triage, which might also contain the word "start"]	624

Global Health <1973 to 2020 Week 11>

#	Search Statement	Results
1	mSTART.mp. ["modified START" not included because all relevant records in Medline also included in retrieval for lines 2 and 3]	1
2	"Simple Triage and Rapid".mp.	7
3	((START adj5 triage*) or (START adj2 tool)).mp. ["JUMPSTART" not searched because it is the pediatric version of START]	15
4	1 or 2 or 3	18
5	("mass casualt*" or (mass adj3 incident*) or disaster*).ti,ab.	6512
6	triag*.ti.	488
7	5 and 6	46
8	4 or 7	59
9	sydney.ti,ab. or ("back screen*" or "back tool*" or MSK or (START adj1 STOPP)).mp.	3152
10	8 not 9	55

11	limit 10 to yr="1983 -Current" [date START was introduced. Limit used to prevent retrieval pre-1983 articles relating to mass casualty and triage, which might also contain the word "start"]	55
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Compendex for 1884-2020 Searched March 24, 2020 Results =57

(((((start and triage)) WN ALL) OR ((triag*) WN TI)) AND (((disaster* or "mass casualt*" or "mass injur*" or "mass incident*" or "building collapse" or hurricane* or storm surge* or tsunami* or earthquake* or "earth quake*" or "mass evacuat*" or tornado* or "wildfire*" or MCI "mud slide*")) WN ALL)) NOT (("back screen*" or "back pain" or "back tool*" or msk or sydney or "stopp start" or "start stopp") WN ALL))

CINAHL with full-text Searched March 23, 2020

#	Query	Limiters/Expanders	Results
S1	(mstart or "Simple Triage and Rapid") OR (START N5 triage* or START N2 tool)	Expanders - Apply equivalent subjects Search modes - Find all my search terms	258
S2	AB ("mass casualt*" or (mass N3 incident*) or disaster*	Expanders - Apply equivalent subjects Search modes - Find all my search terms	9,223
S3	TI ("mass casualt*" or (mass N3 incident*) or disaster*	Expanders - Apply equivalent subjects Search modes - Find all my search terms	9,264
S4	(MM "Disasters+") OR (MM "Fires+") OR (MM "Mass Casualty Incidents") OR (MM "Natural Disasters") OR (MM "Emergency Evacuation")	Expanders - Apply equivalent subjects Search modes - Find all my search terms	26,230
S5	TI triag*	Expanders - Apply equivalent subjects Search modes - Find all my search terms	4,710
S6	S2 OR S3 OR S4	Expanders - Apply equivalent subjects Search modes - Find all my search terms	32,104
S7	S5 AND S6	Expanders - Apply equivalent subjects Search modes - Find all my search terms	318
S8	(sydney or "back N3 screen*" or "back pain" or "start back" or "back tool" or msk) OR ("START STOPP" or "STOPP START")	Expanders - Apply equivalent subjects Search modes - Find all my search terms	45,589
S9	S1 OR S7	Expanders - Apply equivalent subjects Search modes - Find all my search terms	540

S10	s9 NOT s8	Expanders - Apply equivalent subjects Search modes - Find all my search terms	403
S11	s9 NOT s8	Limiters - Published Date: 19830101-20201231 Expanders - Apply equivalent subjects Search modes - Find all my search terms	400

PROSPERO Searched March 24, 2020

LineSearch forHits

#1mstart or (start and triag*) or "simple triage and rapid" 17

#2(triag*):TI 45

#3mass or disaster* or tsunami* or "tidal wave*" or tornado* or hurricane* or earthquake* or "earth quake" or flood* or "mud slide*" or "building collaps*" 3872

#4#2 AND # 36

#5#1 OR #4 23

Cochrane Library Searched March 23, 2020

ID Search Hits

#1 (mstart or "simple triage and rapid"):ti,ab,kw OR ((start and triag*)):ti (Word variations have been searched) 14

#2 ("mass casualt*" or "mass incident*" or disaster*):ti,ab,kw AND (triag*):ti (Word variations have been searched) 25

#3 MeSH descriptor: [Disasters] explode all trees 1473

#4 MeSH descriptor: [Mass Casualty Incidents] this term only 22

#5 #3 or #4 1473

#6 (triag*):ti 478

#7 #5 and #6 26

#8 #1 or #2 or #7 40

ProQuest Dissertations and Theses Global Searched March 24, 2020

noft(mstart OR (start AND triag*) OR "simple triage and rapid") OR (ti(triag*) AND noft(disaster* or "mass casualt*" or "mass injur*" or "mass incident*" or "building collapse" or hurricane* or storm surge* or tsunami* or earthquake* or "earth quake*" or "mass evacuat*" or tornado* or "wildfire*" or "mud slide*"))

SCOPUS Searched March 24, 2020

(TITLE-ABS-KEY (mstart OR "simple triage and rapid" OR start W/5 triag*)) OR ((TITLE (triag*)) AND (TITLE-ABS-KEY ((disaster* OR "mass casualt*" OR "mass injur*" OR "mass incident*" OR "building collapse" OR hurricane* OR storm AND surge* OR tsunami* OR earthquake* OR "earth quake*" OR "mass evacuat*" OR tornado* OR "wildfire*" OR "mud slide*")))) AND NOT (TITLE-ABS-KEY ((msk OR "back screen*" OR "back tool*" OR start W/2 stopp OR sydney))) AND (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) OR LIMIT-TO (PUBYEAR , 2011) OR LIMIT-TO (PUBYEAR , 2010) OR LIMIT-TO (PUBYEAR , 2009) OR LIMIT-TO (PUBYEAR , 2008) OR LIMIT-TO (PUBYEAR , 2007) OR LIMIT-TO (PUBYEAR , 2006) OR LIMIT-TO (PUBYEAR , 2005) OR LIMIT-TO (PUBYEAR , 2004) OR LIMIT-TO (PUBYEAR , 2003) OR LIMIT-TO (PUBYEAR , 2002) OR LIMIT-TO (PUBYEAR , 2001) OR LIMIT-TO (PUBYEAR , 2000) OR LIMIT-TO (PUBYEAR , 1999) OR LIMIT-TO (PUBYEAR , 1998) OR LIMIT-TO (PUBYEAR , 1996) OR LIMIT-TO (PUBYEAR , 1994) OR LIMIT-TO (PUBYEAR , 1991) OR LIMIT-TO (PUBYEAR , 1990) OR LIMIT-TO (PUBYEAR , 1986) OR LIMIT-TO (PUBYEAR , 1980))