

# A Literature Review by Text Mining

Overviews of the Literatures concerning Elderly and Disasters by Text mining for the initial stage.

1. Search the keywords at Web of Science (Core Collection)
2. Selected Information (Authors, Titles, and Abstracts) was gathered into one text file.
3. 1<sup>st</sup> contents analysis has been carried out and omitted the unnecessary words for the next analysis. >>Cleaning process
4. 2<sup>nd</sup> contents analysis has been carried out. >>This process was repeated
5. Research findings are examined.
6. Check the extracted words and phrases by reaching to the original abstracts and original papers.

	Extracted Words	Times of Occurrence		Extracted Words	Times of Occurrence
1	elderly	358	26	stress	76
2	disaster	355	27	emergency	75
3	health	165	28	include	75
4	study	161	29	adult	70
5	risk	134	30	natural	68
6	people	133	31	vulnerabilit	68
7	year	130	32	older	67
8	result	116	33	impact	66
9	population	113	34	method	64
10	use	113	35	vulnerable	64
11	community	109	36	effect	62
12	patient	108	37	need	62
13	group	106	38	identify	61
14	age	102	39	death	60
15	social	95	40	preparedne	59
16	factor	94	41	conclusion	58
17	disease	90	42	injury	57
18	PTSD	90	43	psychologic	57
19	increase	81	44	symptom	57
20	level	81	45	event	56
21	mortality	81	46	datum	55
22	rate	80	47	victim	55
23	area	79	48	higher	54
24	care	79	49	survivor	53
25	resident	76	50	high	52

Database:  
Web of Knowledge

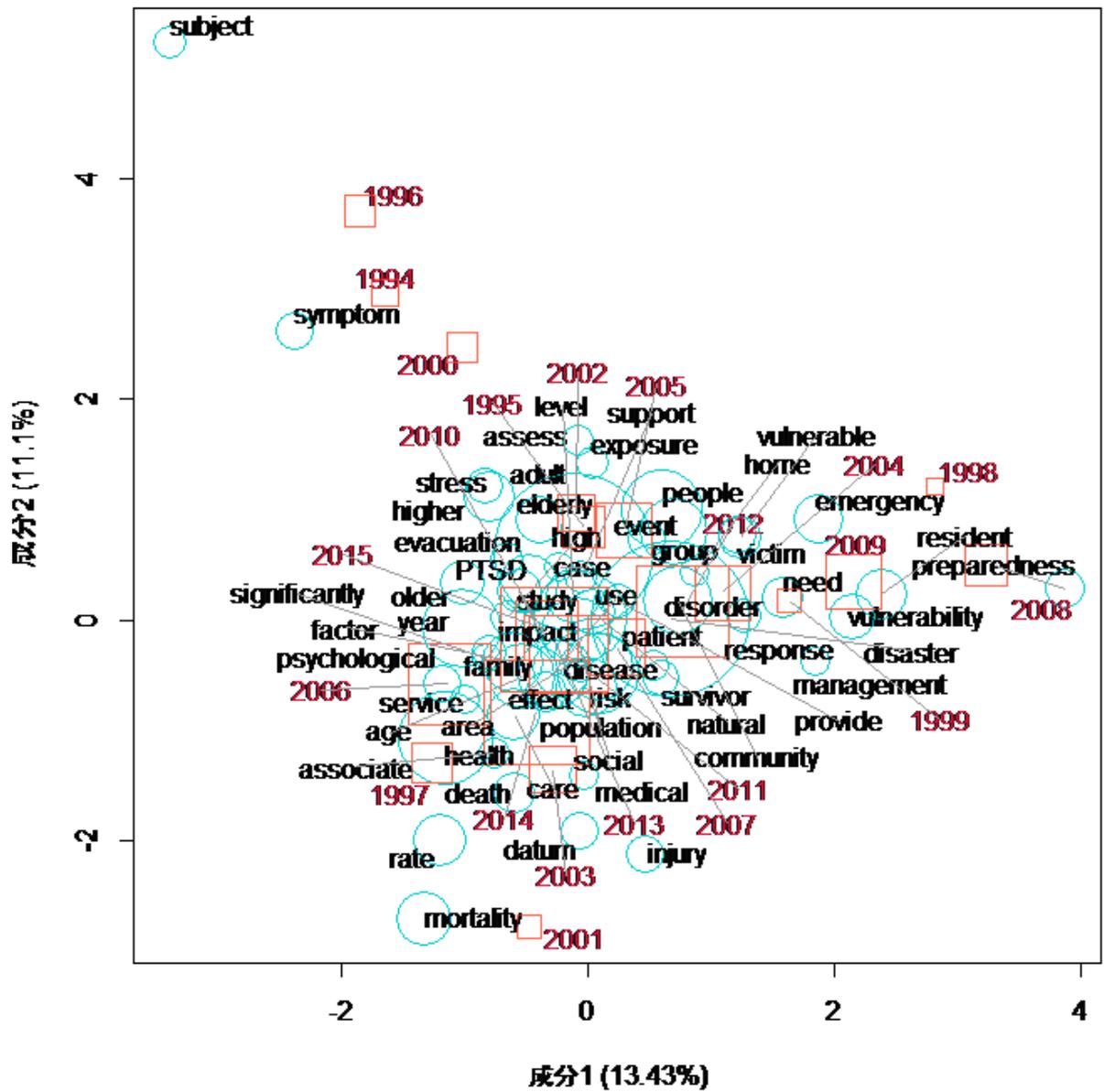
Years:  
1996-2015

Term:  
Elderly and Disasters

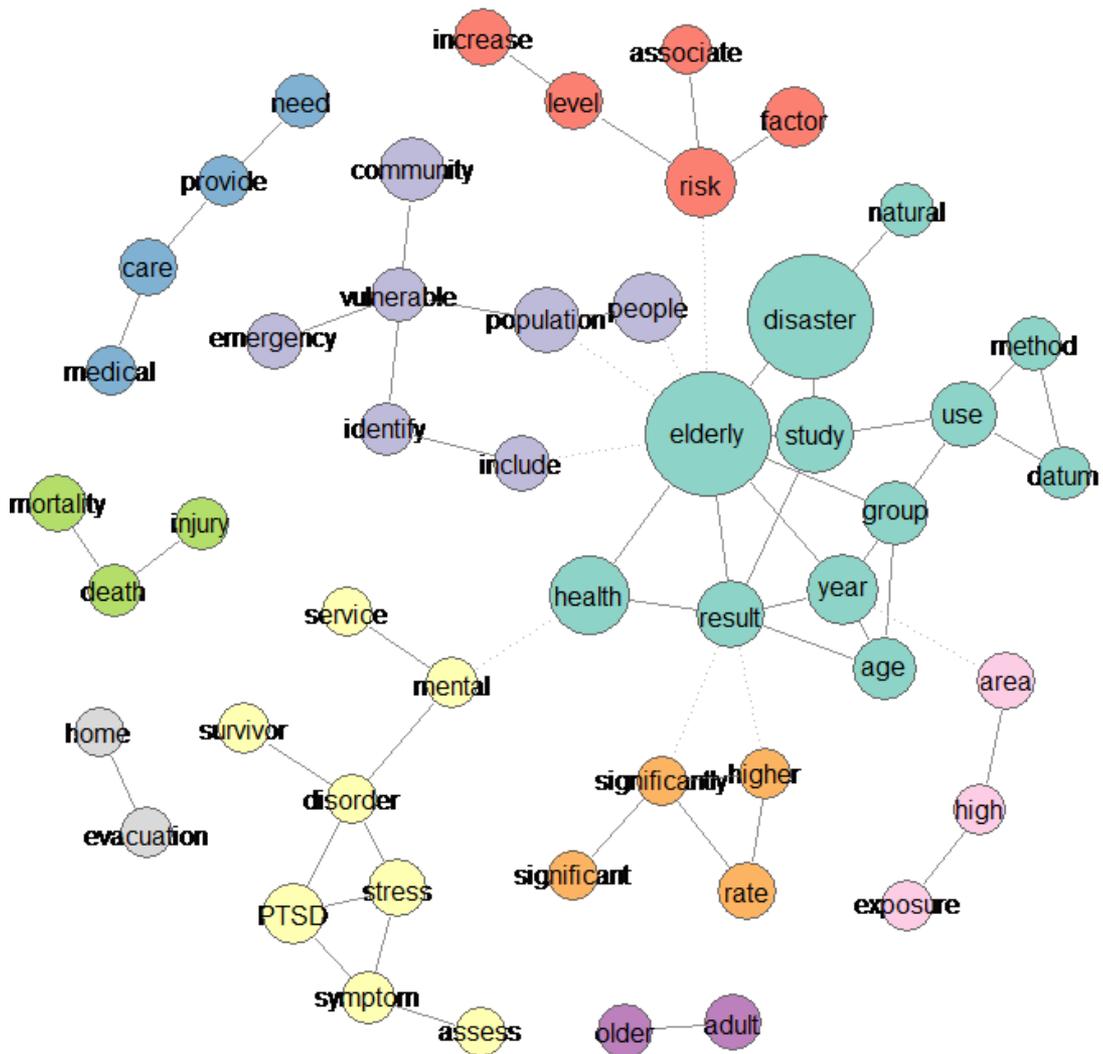
Number of Hits:  
199

Extracted Words  
“Elderly and Disasters”  
Search Results

I highlighted some words to check



Correspondence Analysis  
 “Elderly and Disasters” Search Results ( Year by Year)



- Mortality-Death-Injury
- Home-Evacuation
- Survivor-Disorder-Mental
- Disorder-Mental-Service
- Mental-Disorder
- PTSD-Symptom
- Symptom-Assess
- Exposure-High-Area
- Risk-Level-Increase
- Medical-Care-Provide-Need

Co-occurrence Network of Words Analysis  
 “Elderly and Disasters” Search Results

⊗ These connected words maybe the key of the past literatures

2015		2014		2013		2012		2011		2010		2009		2008	
elderly	.047	disaster	.048	disaster	.053	elderly	.053	health	.041	altitude	.052	maxillofaci	.043	preparedn	.061
food	.042	rate	.028	study	.048	study	.043	study	.038	norovirus	.047	fracture	.041	resident	.048
depressor	.041	social	.025	disease	.031	disaster	.042	elderly	.037	severe	.037	Pb	.039	survey	.039
risk	.040	use	.024	patient	.030	people	.035	year	.035	affect	.035	vulnerabili	.035	pharmacis	.039
START	.037	older	.022	risk	.027	risk	.034	PTSD	.031	impact	.035	vulnerable	.032	policy	.037
consumer	.037	mortality	.022	level	.026	communit	.026	result	.027	recipient	.035	disaster	.031	emergenc	.034
patient	.037	age	.021	mortality	.026	result	.025	risk	.026	patient	.031	social	.029	disaster	.032
symptoma	.036	datum	.021	health	.025	prevalence	.024	poisoning	.026	CHD	.029	emergenc	.028	program	.029
PTSD	.035	year	.021	result	.025	water	.022	natural	.025	family	.028	patient	.025	assisted-l	.026
model	.031	local	.020	social	.024	participant	.022	disorder	.024	weather	.028	preparedn	.025	nursing	.024
2007		2006		2005		2004		2003		2002		2001		2000	
disaster	.040	elderly	.042	younger	.049	elderly	.037	seismic	.044	planning	.041	pedestrian	.083	housing	.085
suicide	.034	health	.042	elderly	.045	young	.027	aortic	.039	distress	.040	accident	.071	coronary	.060
survivor	.028	population	.037	event	.041	age	.024	disadvanta	.033	author	.032	parisian	.050	condition	.050
Katrina	.028	factor	.030	memory	.040	population	.023	effect	.030	psycholog	.032	injury	.048	live	.046
Hurricane	.027	psychologi	.030	impact	.035	disorder	.021	mortality	.028	health	.026	mortality	.047	policy	.044
treatment	.027	symptom	.025	resident	.035	group	.021	City	.027	level	.026	decrease	.045	case	.043
NEW	.027	Fleischma	.025	communit	.035	survivor	.021	use	.025	communal	.024	TAIWAN	.042	disease	.040
rate	.026	suicide	.024	group	.035	response	.021	disease	.024	incident	.023	medical	.040	recovery	.039
age	.024	care	.024	emotional	.034	famine	.020	informatio	.023	communit	.023	public	.033	chiropract	.039
preparedn	.023	year	.024	natural	.031	vulnerabili	.020	death	.022	financial	.022	subway	.033	artery	.038
1999		1998		1997		1996		1995		1994					
LSFA	.167	unmet	.109	health	.057	subject	.061	SARAJEV	.046	DSM-III-F	.053				
skill	.131	ngo	.085	dementia	.044	post-traur	.052	admission	.038	BANGLAD	.051				
step	.092	Tokyo	.065	finding	.034	symptom	.043	food	.033	reaction	.048				
lay	.067	recovery	.056	disease	.031	people	.038	pollution	.033	posttraum	.044				
resuscitati	.050	need	.049	Cuba	.026	older	.038	support	.031	stress	.042				
aid	.047	Angeles	.044	patient	.025	younger	.032	household	.030	severe	.042				
person	.042	Ventura	.044	term	.025	high-rise	.031	winter	.026	younger	.038				
effective	.039	Northridge	.044	present	.023	elderly	.031	provide	.026	subject	.035				
important	.037	cbo	.044	likely	.023	stress	.030	collective	.025	assess	.035				
acquisitor	.033	Los	.044	rate	.023	IES	.029	elderly	.025	PTSD	.033				

Jac card similarity coefficient

These associated words in the year will be checked.

I highlighted some words to check

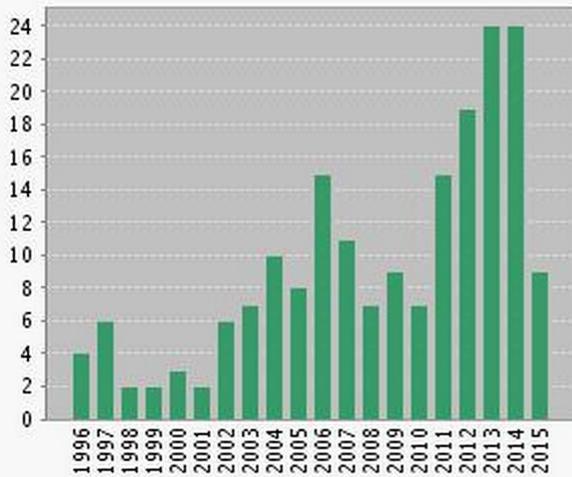
## Citation Report: 199

(from All Databases)

You searched for: **TOPIC:** (elderly disasters) [...More](#)

This report reflects citations to source items indexed within All Databases.

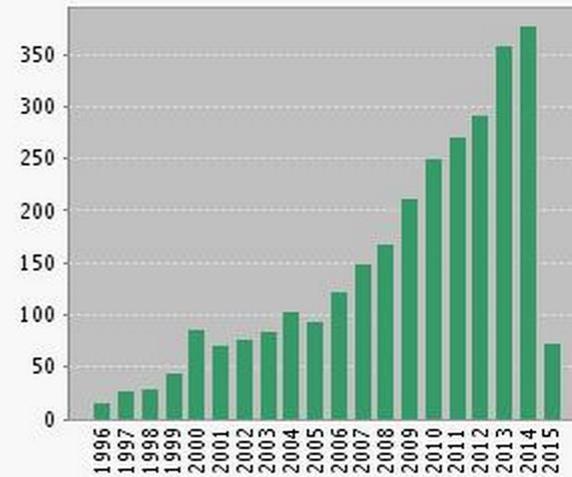
### Published Items in Each Year



The latest 20 years are displayed.

[View a graph with all years.](#)

### Citations in Each Year



The latest 20 years are displayed.

[View a graph with all years.](#)

# Characteristics by Disaster Management Cycle

			Number of Hits
disasters	elderly		199
disasters	elderly	Preparedness	32
disasters	elderly	Mitigation	6
disasters	elderly	Response	41
disasters	elderly	Recovery	21

