



# Determining research need in Major Incident management:

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an international expert Delphi study

Simon Carley and Kevin Mackway-Jones  
Centre for Effective Emergency Care  
Manchester Metropolitan University  
Manchester, UK

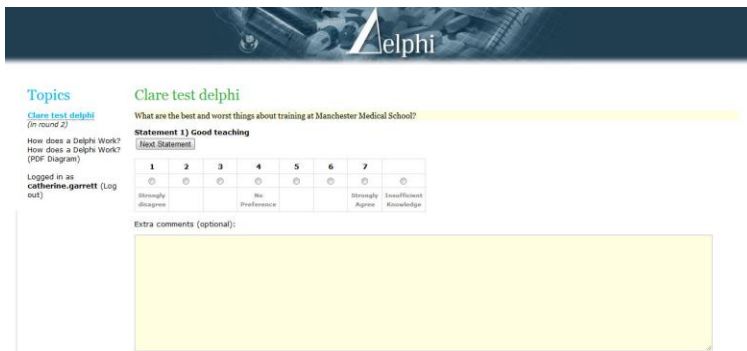
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Visit the SDO programme website for more information.

The views and opinions expressed herein are those of the authors and do not necessarily reflect those of the SDO programme, NIHR, NHS or the Department of Health

# Aim/Methods

- Aim To identify key areas for Major Incident Research using an International expert panel
- We developed and delivered an online Delphi tool to invite and collate data from the expert panel.  
<http://www.7comms.co.uk/delphi3/>
- Delphi allows experts to state, review and reiterate opinions in an anonymous setting.



**Delphi**

**Topics**  
[Clare test delphi](#)  
*(in round 2)*

How does a Delphi Work?  
How does a Delphi Work?  
(PDF Diagram)

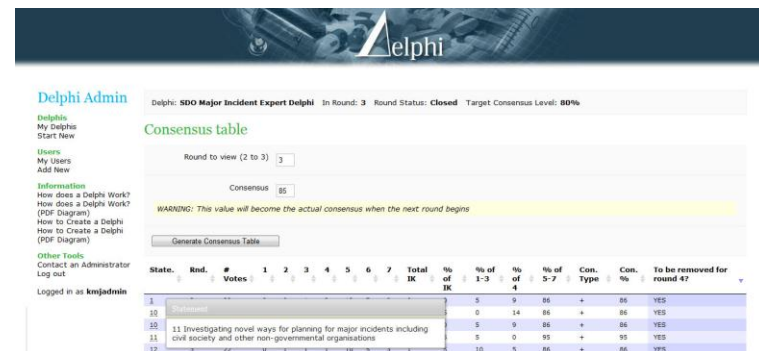
Logged in as **catherine.garrett** (Log out)

**Clare test delphi**  
What are the best and worst things about training at Manchester Medical School?

**Statement 1) Good teaching**  
[Next Statement](#)

1	2	3	4	5	6	7
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Strongly disagree		No Preference		Strongly Agree	Insufficient Knowledge	

Extra comments (optional):



**Delphi Admin**

Delphis  
My Delphis  
Start New

Users  
My Users  
Add New

Information  
How does a Delphi Work?  
(PDF Diagram)  
How to Create a Delphi  
How to Create a Delphi  
(PDF Diagram)

Other Tools  
Contact an Administrator  
Log out  
Logged in as **knjadmin**

Delphi: **SDO Major Incident Expert Delphi** In Round: **3** Round Status: **Closed** Target Consensus Level: **80%**

**Consensus table**

Round to view (2 to 3)

Consensus: **85**

**WARNING:** This value will become the actual consensus when the next round begins

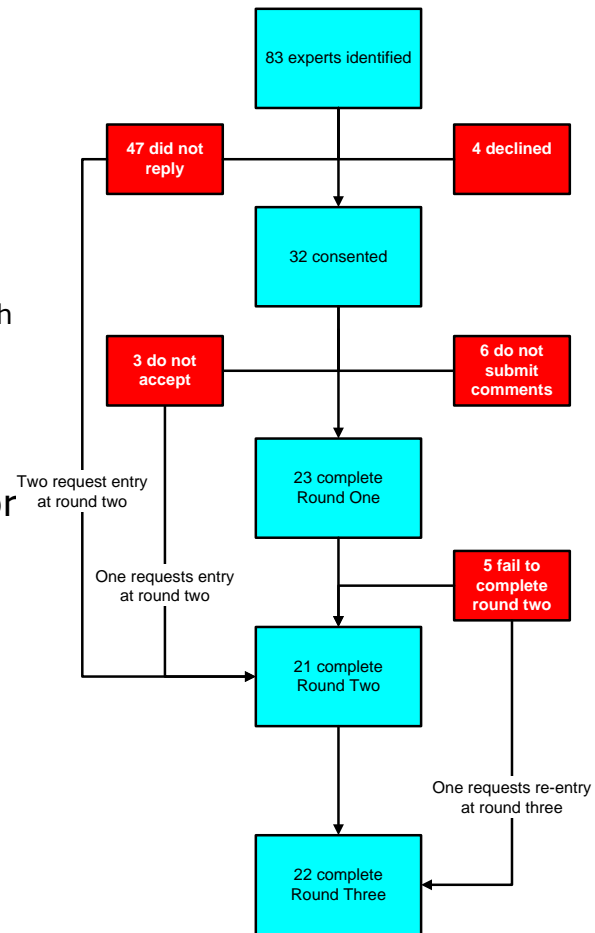
[Generate Consensus Table](#)

State..	Rnd.	# Votes	1	2	3	4	5	6	7	Total IK	% of IK	% of 1-3 of 4	% of 5-7 of 4	Con. Type	Con. %	To be removed for round 4?
1	Consensus									5	9	86	+	86	YES	
10										0	14	86	+	86	YES	
22										5	9	86	+	86	YES	
11	11 Investigating novel ways for planning for major incidents including civil society and other non-governmental organisations									5	0	95	+	95	YES	
12										10	5	86	+	86	YES	

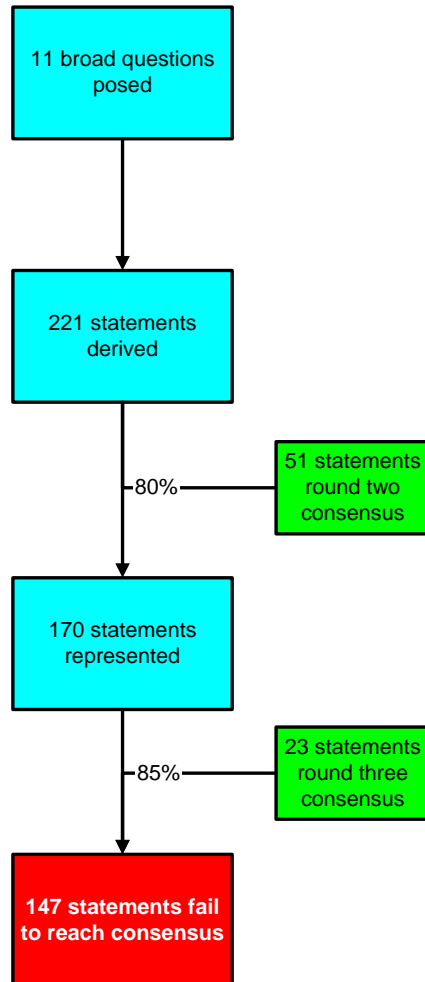


# Results

- 3 round expert Delphi
  - Round 1 – open questions
  - Round 2 – scoring statements
  - Round 3 – rescoreing by participants with consensus data from round 2 available
- Participant selection from
  - Active researchers into major incidents
  - Active teachers on major incident courses (e.g. MIMMS)



# Consensus key themes



Theme that achieved high levels of consensus for need for further research	Topics
Education or training	10
Planning	9
Communications	8



# Education or training

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- Comparing the capability achieved with specific training interventions
- How to analyse exercises to assess capability
- The effectiveness of communication exercises at testing communications
- Do drills effectively test capability
- Assessing the cost effectiveness of major incident training interventions
- Determining the generic competencies for incident responders
- Simulation methodologies in major incident training
- Determining the most effective way of measuring effectiveness of disaster exercises / drills
- Are staff at mass gatherings trained appropriately
- Determining whether standardisation of disaster education and training might be effective



# Consensus examples

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## ○ Planning – Consensus Examples

- The size of supplies stockpiles needed
- How well do plans reflect changing resources (health facilities, beds etc)
- The importance and integration of locally relevant knowledge
- How to plan for new and emerging threats
- How to plan for rural as well as urban incidents
- The impact of pre-determined attendance for health providers
- Population warning systems
- Investigating novel ways for planning for major incidents including civil society and other non-governmental organisations
- The incorporation of lessons learnt into future plans

## ○ Communication – Consensus examples

- Inter-service communication
- Establishing the effectiveness of specific messaging and modes of communication
- The effectiveness of communication exercises at testing communications
- Communicating recommendations to the public
- Effective communication after a “near miss”
- Population warning systems
- Communication of on scene hazards
- Establishing if there is a common international language of disaster



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# Discussion/Conclusions

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- On-line Delphi is an effective tool to determine research priorities to be identified by international group.
- 74 topics agreed as requiring research
- No topics agreed as well researched
- 147 other potential topics noted

