



Public Involvement in Patient Reported Outcome Measures (PROMs)

Monday 6th December 2016

Dr Kirstie Haywood

Lead for Patient Reported Outcomes theme

Royal College of Nursing Research Institute

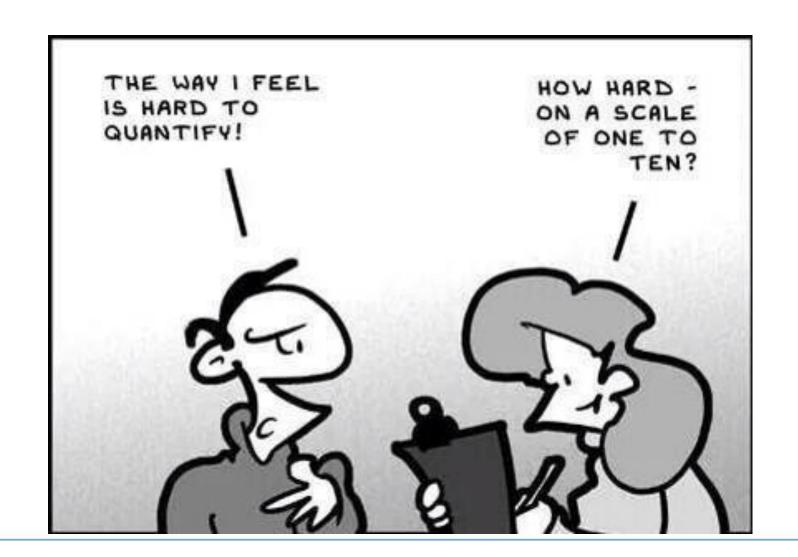
Warwick Medical School, Warwick University. England.

Plan of action

- Developing a Core Outcome Set for Cardiac Arrest Clinical Trials: the COSCA initiative
 - Defining health outcomes
 - Current state of health outcome assessment in CA trials
 - What matters to patients?
 - What matters to health professionals?
 - Working towards consensus
- Contribution of PPI to COS development



What is a Health Outcome?



What is a Health Outcome?

The result(s) that people care about most when seeking (or providing) treatment, including functional improvement and the ability to live normal, productive lives

ICHOM: International Consortium for Health Outcome Measurement (www.ichom.org)

If the measured end-points were the only things that changed, would the patients be willing to accept the treatment?

(Guyatt et al, 2007)

Which outcomes 'matter' following a cardiac arrest?

- What is successful resuscitation?
 - 'Survival'
 - Individual is not cognitively impaired and reports an 'acceptable quality of life' (Beesems et al, 2014)
 - No significant deterioration when compared to their pre-morbid state (Bossaert et al, 2014)
- No assessment guidance



Outcome reporting in Cardiac Arrest Clinical Trials

- 61 trials reported >160 individual outcomes (2000-2012)
- **What?** Survival (85%), Process of care, Body structure/function
- Who? Clinician-reported outcome assessment
- When? Up to and including hospital discharge
- Why? Often poor rational for outcome selection
- Significant heterogeneity in outcome reporting
- Something MISSING???
 - Limited focus on 'what matters to patients?'
 - No assessment of the patients perspective
 - Limited short-term assessment
 - No patient-reported long-term assessment



Outcome reporting - Cardiac Arrest Clinical trials

Box. Cerebral Performance Category (CPC) Scale

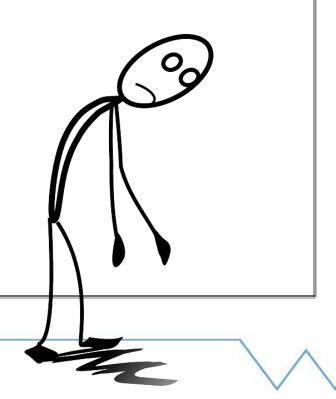
CPC 1: Full recovery or mild disability

CPC 2: Moderate disability but independent in activities of daily living

CPC 3: Severe disability; dependent in activities of daily living

CPC 4: Persistent vegetative state

CPC 5: Dead



How do we know if we are 'restoring quality of life?'



A Core Outcome Set for Cardiac Arrest

COSCA: A small group of outcomes which should be routinely reported as a minimum in Cardiac Arrest effectiveness trials
 (www.comet-initiative.com)

- COS Co-construction
 - Multiple stakeholders to reflect key perspectives
 - Patients as participants and research partners
- International steering group
- International participants

Clinical Research Ambassador Group (CRAG)

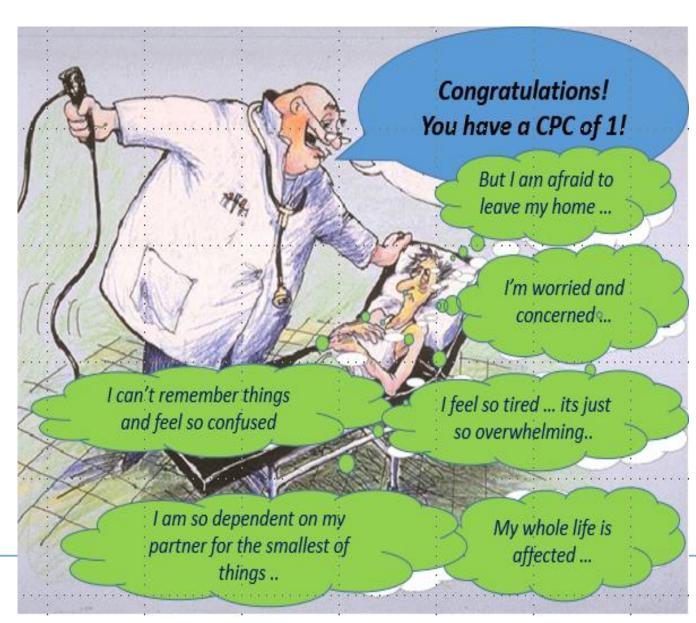


COSCA: Step 1 – WHAT to measure?

► 1.1 What matters to patients?

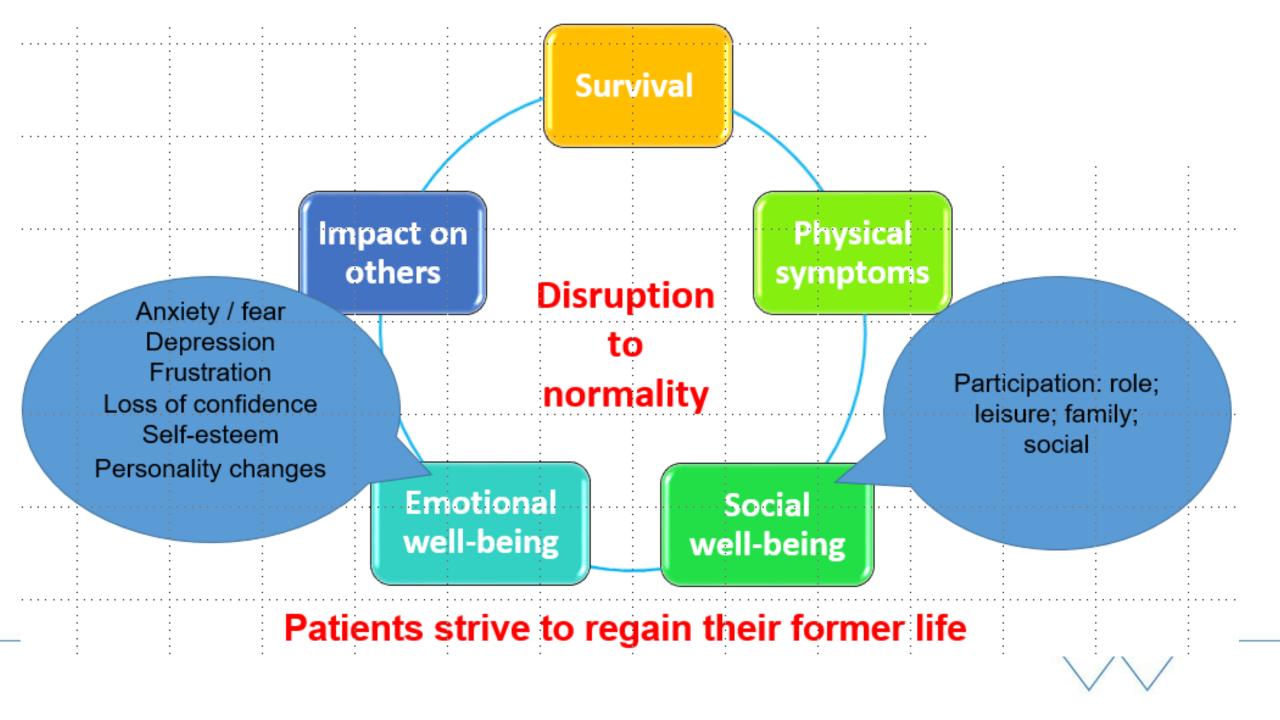
Semi-structured interviews with survivors and partners

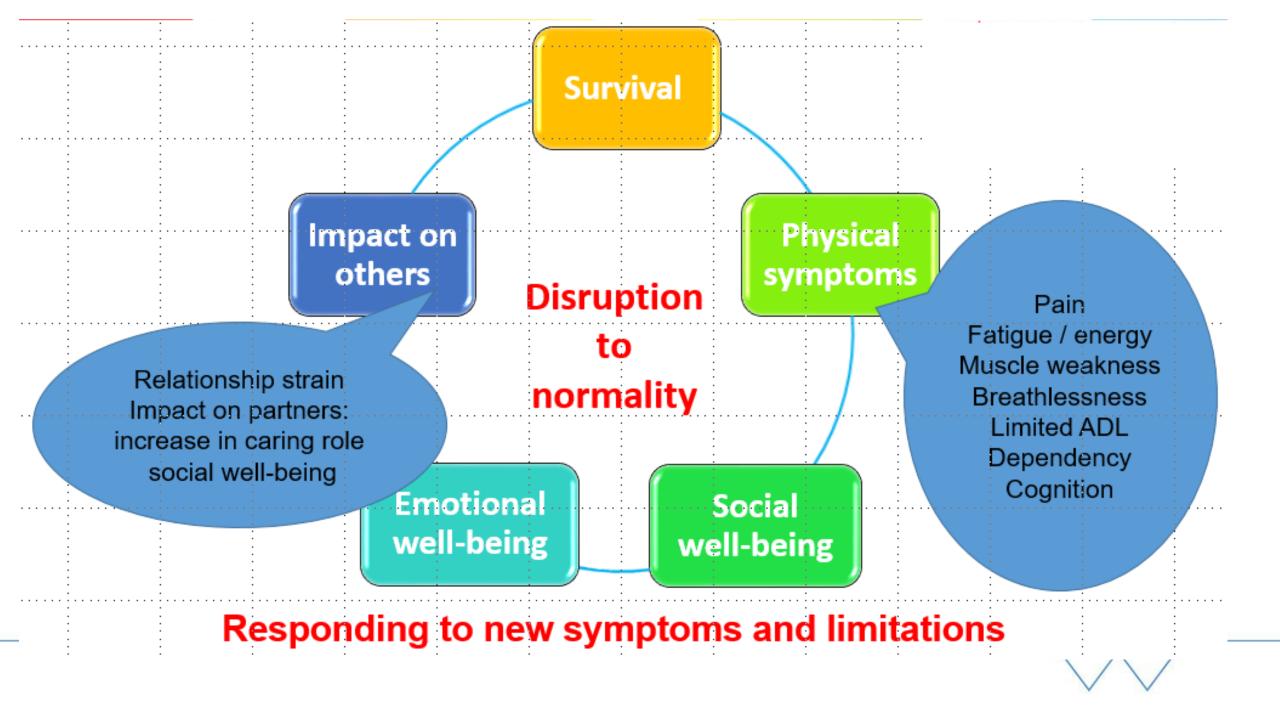
- their lived experience
- health outcomes that really matter
- In-depth qualitative analysis
- A convenience sample
 - 8 Patients (n5 Males) and 3 partners
 - mean 62.8 years (SD 13.6); range 41-79
 - mean of 6.25 months post arrest



Survival 1.1 Results **Physical** Impact on Disruption others symptoms to normality **Emotional Social** well-being well-being

Patients have real problems that we are not capturing





COSCA: Step 1 – WHAT to measure?

- ▶ 1.2 Delphi Survey: what matters to international stakeholders?
- Total of 44 outcomes across 5 time-points:
 - during CPR; immediately after CPR; during hospital stay; hospital discharge; within 1st year
- ► How important is the outcome for a core outcome set?
 - Round 1: GRADE Scale 0-9 (Not important Critically important)
 - Round 2: Rank the top 10 (5) most important outcomes
- Result: 15 countries
 - Round 1: n= 99 Health Professionals; n= 69 survivors / partners
 - Round 2: n= 55 Health Professionals; n= 43 survivors / partners
- Consensus: Pre-defined at 70%

Core Area	Outcome Domain	During CPR	Immediately after CPR	During hopsital stay	At hospital discharge	Within 1 year
Pathophysiologi cal	Circulatory function	0	•	•		
manifestations	Respiratory function			-		
	Renal function					
	Brain function (neurological markers)		0	○▲		
	Adverse events					•
	Process measure of CPR *					
Survival	Survival	•	•	•	•	•
Life impact	Consciousness and cognition		0	0	•	•
	Physical symptoms				•	•
	Activities of daily living				•	•
	Health related quality of life				0	
	of life Emotional well-being				0	
	of life				0	
	of life Emotional well-being Family impact Participation				0	
	of life Emotional well-being Family impact					_
Economic impact and	of life Emotional well-being Family impact Participation					-

COSCA: Step 1 – WHAT to measure?

- **▶ 1.3 International Consensus Meeting**
- 23 international voting participants including 4 patient representatives

UK, Netherlands, USA, Canada, Australia, Finland, Singapore, Sweden, Finland, New Zealand and

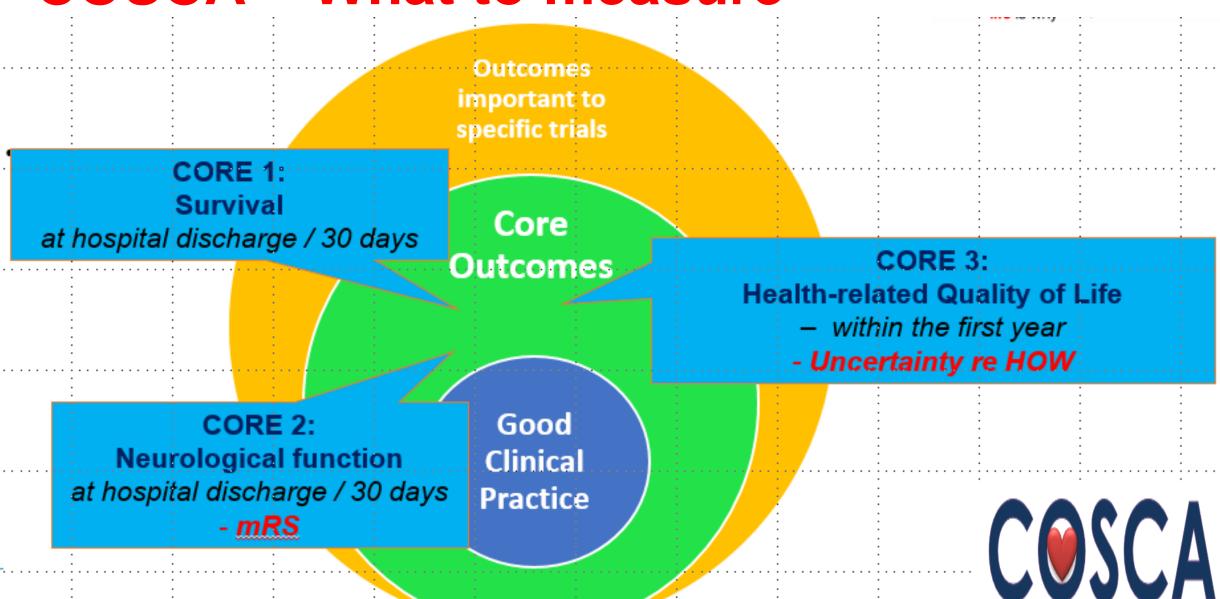
Germany

- Structure:
 - Plenary presentations
 - Small and large group discussions plus voting
 - Seek consensus on (70% agreement):
 - What to measure
 - When to measure
 - (How to measure Step 2)



Vinay, Barry, John, Laura, Cathy, Anne, Kirstie, Gavin

COSCA – What to measure



Conclusion – PPI, Important Outcomes and COS

- Involvement of patients as participants and partners crucial to COS development
 - Current status in CA clinical trials:
 - Patient perspective not assessed
 - Current approaches 'over-estimate well-being'
- As participants:
 - Survivors have real, wide-ranging problems that we currently do not assess
 - Enabled the patient voice to be heard throughout the COS development process
- As partners:
 - Clear guidance for what was acceptable and relevant
- As participants and partners:
 - A unique voice to the consensus meeting keeping the values of patients high on the agenda
 - Part of the writing team

Thank-you

- COSCA Core team: Warwick University:
 - Laura Whitehead, Gavin Perkins, Kirstie Haywood
- COSCA Collaborators:
 - Jonathan Benger, Steven Brett, Maaert Castren, Judith Finn, Vinay Nadkarni, Ken Spearpoint
- COSCA PPI: Clinical Research Ambassador Group (CRAG) and participants in consensus meeting
- COSCA Writing Group
- Endorsement from ILCOR and AHA
- Participants: Interviews, Delphi and Consensus meeting











