

Needs Analysis and proposed behaviour changes for improving routine advance CPR decision-making in hospitals

Before developing the *Advance CPR decision-making* teaching resources, a Needs Analysis was undertaken to evaluate issues associated with advance CPR decision-making in the hospital setting. This included: (i) reviewing the current literature; (ii) focus groups with junior medical staff; and (iii) focus groups with senior medical staff.

A range of themes were identified from both the literature and the focus groups. These have been grouped together under three major themes:

1. Knowing what to say
2. Knowing how to say it
3. Wanting to say it.

In the following table, columns 1 and 2 list the themes related to CPR decision-making barriers; column 3 lists the source/s for that theme; and column 4 lists recommended interventions, which have been incorporated into this educational video resource.

Themes	Description	Source*	Video education
(i) Knowing what to say			
Lack of knowledge	<p>Uncertain how to medically assess and predict prognosis from CPR:</p> <ul style="list-style-type: none"> • variable experience of CPR outcomes • wanting a predictive tool <p>Poor understanding of difference between active and palliative management. (Weil et al. 2015)</p>	LI, JFG, SFG	<p>Guidance for assessing medically, including statistics, uncertainty and how CPR decision relates to overall treatment plan.</p> <p>Promotes palliative care as an active treatment option.</p>
Lack of skill/expertise	<p>Difficulty predicting patient's likely illness trajectory.</p> <p>Juniors use intuition to assess prognosis (Becerra, Hurst et al. 2011)</p> <p>Significant variation in CPR decision-making approach being modelled by Consultants.</p>	LI, JFG, SFG	<p>Patterns of illness trajectories described.</p> <p>Frailty and lack of physical reserve discussed as poor prognostic indicators for CPR.</p> <p>'Surprise question' and tools for assessing frailty discussed.</p>
Lack of evidence/guidelines for CPR outcomes	<p>Guidelines only address technical aspects of providing CPR. (Brindley and Beed. 2014)</p> <p>Difficulty relating theory to individual patient.</p>	LI, SFG	<p>Explains gaps in research evidence for who should receive CPR.</p> <p>Importance of shared decision-making.</p>

Themes	Description	Source*	Video education
(ii) Knowing how to say it			
Lack of knowledge	Range of views about role of family and patient in CPR decision.	LI, JFG, SFG	CPR decision-making framework supports routine involvement of patient/family.
Lack of confidence in ability to discuss CPR	<p>Patients have falsely high expectations of CPR.</p> <p>Patient and family may have different desire for CPR.</p> <p>Concerns about upsetting patients.</p> <p>Juniors experience discomfort or embarrassment with these discussions. (Becerra, Hurst et al. 2011; Hurst, Becerra et al. 2013)</p> <p>Poor training for decision-making and communication. (Deep, Green et al. 2007; Siddiqui and Holley. 2011)</p>	LI, JFG, SFG	<p>Good communication is promoted as cornerstone of quality medical care.</p> <ul style="list-style-type: none"> introduces communication tool, 'Ask-Tell-Ask' importance of acknowledging emotions is discussed using 'NURSE' tool.
Lack of role modelling and peer guidance	Described lack of modelling and mentoring by Consultants.	LI, JFG, SFG	<p>'Goals of patient care' form and process is discussed:</p> <ul style="list-style-type: none"> requires Consultant leadership to promote CPR decision-making as routine part of an overall treatment plan includes scripted questions.

Themes	Description	Source*	Video education
(iii) Wanting to say it			
Awareness	<p>Clinicians under-estimate patients willingness to engage in these discussions. (Hurst, Becerra et al. 2013; Elo, Dioszeghy et al. 2005)</p> <p>Families can be unaware of terminal status of patient. (Hilden, Louhiala et al. 2004)</p>	LI	<p>Promotes ownership of decision-making by all doctors.</p> <p>Repeated conversations may be required.</p>
Authority for decision-making	<p>Juniors feel they don't have decision-making authority and feel frustrated when decisions are not made.</p> <p>Seniors feel frustrated by inaction of others in making decisions.</p> <p>Fear of complaint. (Myint, Miles et al. 2006)</p>	LI, JFG, SFG	Promotes local consensus approach and shared responsibility for decision as part of routine hospital care.
Maturity of practice	<p>Junior staff may lack experience to make decisions</p> <p>Poor insight into sub-optimal communication. (Deep, Griffith et al. 2008)</p>	LI	<p>Role delineation, mentoring and support.</p> <p>Decision-making needs to be overt.</p> <p>Involve whole team in decisions.</p>
Resources	<p>Time pressures to complete rounds.</p> <p>Inadequate time to establish rapport with patients and to co-ordinate family meetings.</p>	SFG	Shared responsibility across system, depending on patient's health needs.
The system	<p>Policies not reflecting contemporary practice.</p> <p>Potential for worse care with NFR decision. (Cohn, Fritz et al. 2013)</p>	LI	<p>Need for local consensus approach to decision-making.</p> <p>Emphasises that CPR decisions are part of an overall management plan.</p> <p>Audit and feedback on performance.</p>

*JFG = Junior doctor focus group; SFG = Senior doctor focus group; LI = Literature