

Guideline 10.6 Family Presence during Resuscitation

Summary

To whom does this guideline apply?

This guideline applies to adults, children and infants (including neonates and newborns) requiring resuscitation.

Who is the audience for this guideline?

This guideline is for use by health professionals however, principles of this guideline may have applicability to bystanders, first aiders or first responders.

Summary of Recommendations

The Australian and New Zealand Committee on Resuscitation (ANZCOR) makes the following recommendations:

1. ANZCOR suggests that family members be provided with the option to be present during out-of-hospital or in-hospital resuscitation [Adult CoSTR 2022, weak recommendation, very low certainty of evidence; Neonatal CoSTR 2021, weak recommendation, very low certainty of evidence]. When offering families the choice to be present during resuscitation, cultural, religious or other sociological or health equity factors should be considered and accommodated [Good Practice Statement].
2. Institutional guidance documents about family presence during resuscitation should be developed to guide and support healthcare provider decision-making, and to manage communication and care of families who are present during resuscitation [Adult CoSTR 2022, Good Practice Statement].
3. When implementing family presence during resuscitation, healthcare providers should receive preparation to enable optimal management of the patient, family, and themselves [Adult CoSTR 2022, Good Practice Statement]. Methods to enhance provider preparation may include (but are not limited to) education to enhance knowledge, experiential learning or skills training, role modelling, cultural awareness and safety, and techniques to optimise resource use.
4. Consideration should be given to follow-up of patients, families and healthcare providers both soon after the resuscitation event and in the longer term [Good Practice Statement].

Guideline

Depending on context, family presence during resuscitation may be inevitable, incidental or invited. Given the sudden nature of resuscitation from cardiac arrest, serious illness or injury, and the threat to patient survival,¹⁻⁴ family members may wish to be present during resuscitation.⁵ There are many influences^{6,7} on whether families wish or do not wish to be present during resuscitation: family choice must be respected and families supported whether they choose to be present or not.

This guideline is supported by:

- two International Liaison Committee on Resuscitation (ILCOR) systematic reviews (one pertaining to adult resuscitation⁶ and the other pertaining to paediatric and neonatal resuscitation⁷),
- two ILCOR Consensus on Science and Treatment Recommendations publications related to adult⁸ and neonatal⁹ resuscitation, and
- a survivor and family-performed systematic review and qualitative meta-synthesis.¹⁰

These documents are limited to resuscitation from cardiac arrest; however, principles of this guideline may apply to resuscitation situations where cardiac arrest has not occurred (such as respiratory failure, trauma, or shock). In this guideline, family presence during neonatal, paediatric, and adult resuscitation, and care needs of families of those in cardiac arrest will be addressed in the sections to follow.

1.0 | Family Presence during Neonatal Resuscitation

The ILCOR systematic review on family presence during paediatric or neonatal resuscitation⁹ identified seven studies related to resuscitation of newborn infants at birth.¹¹⁻¹⁷ A further study related to neonatal resuscitation¹⁸ was included in the CoSTR.⁹ The following summation is drawn from the ILCOR CoSTR on family presence during neonatal resuscitation.⁹ Newborn resuscitation is unique in that the person giving birth is always present at least initially; in many cases they are conscious and in some cases they are under anaesthesia.

1.1 | Patient outcomes

The effect of family presence during neonatal resuscitation on patient outcomes (short and long term) is unknown as no patient outcomes were reported in this systematic review.⁷

1.2 | Family outcomes

Family presence during neonatal resuscitation was mostly positive for families present during stabilisation or resuscitation of their newborn.¹¹⁻¹⁷

Qualitative themes included:

- the unique experience and perspective of fathers/partners,
- parents felt that being present provided reassurance and opportunities for involvement and communication, but also reported reservations about the emotional toll of witnessing a resuscitation,
- the need for staff training in support and debriefing of parents, and
- polarized emotions ranging from desperation to see the baby immediately, to fear of witnessing their baby in situation they would rather have avoided.

1.3 | Healthcare provider outcomes

There are no reports of detrimental effects of family presence during neonatal resuscitation on health providers. All four studies reporting provider outcomes were surveys of providers^{13,15,18} or parents.¹⁶ Healthcare providers perceived that family presence during neonatal resuscitation reduced workload,¹⁸ some providers were concerned that less experienced professionals may feel increased pressure with families present,^{13,15} however increased pressure was not raised as a concern in a survey of healthcare providers regarding their workload.¹⁸ The potential impact of family presence on staff performance was raised as a concern by parents in one study.⁷⁷

2.0 | Family Presence during Paediatric Resuscitation

The ILCOR systematic review on family presence during paediatric or neonatal resuscitation⁹ identified 31 studies related to paediatric resuscitation (11 related to actual resuscitation,¹⁹⁻²⁹ and the remainder were surveys of general patient populations,³⁰⁻³² healthcare providers' opinions, attitudes or beliefs in response to hypothetical scenarios^{24,26-28,33-46}). The following summation is drawn from the ILCOR systematic review.⁹

2.1 | Patient outcomes

The effect of family presence during paediatric resuscitation on patient outcomes is unknown as no patient outcomes were reported in this systematic review.

2.2 | Family outcomes

Family presence during the resuscitation of their child was a helpful experience for parents. In the eight studies focused on family opinion,^{19-23,30-32} parents who were present during their child's resuscitation believed their presence brought their child comfort and helped them to adjust to the loss of their child. Qualitative themes included parents' desire to be present, understand what was happening, have physical contact with their child, and witnessing the resuscitation helped them to know that all had been done.²⁰⁻²² In the single study comparing experiences of parents who had been present versus not, 40% of those not present were not invited to be present during cardiopulmonary resuscitation (CPR) and 10% declined to be present when invited (the remaining 45% were not in the hospital at the time of CPR, in remaining 5% the reasons were unclear).²³ Of those that were absent (regardless of reason), 55% wished they had the opportunity to be there.²³

2.3 | Healthcare provider outcomes

The effect of family presence during paediatric resuscitation on healthcare provider experience was varied across 23 studies.^{24-29,33-49} Agreement with and acceptance of family presence during resuscitation ranged from 15%²⁹ to more than 60%.^{40,42,43,45} Agreement with, and confidence, in facilitating family presence during paediatric resuscitation was higher in health professionals who had past experience of inviting families to be present. The most common provider concerns were psychological trauma for parents, risk of interference with clinical care, and stress on the resuscitation team. Provider opinion studies (which did not all require past experience of family presence during resuscitation) found overall acceptance ranged from 35 to 85%.^{24,26,28,33-46} There were no differences between physicians and nurses, however acceptance was more positive amongst clinicians with experience of family presence during resuscitation and among senior clinicians.^{34,36,38} Hypothetical concerns were team stress, potential for distraction, adverse psychological impact on parents/family members and the potential for litigation.

3.0 | Family Presence during Adult Resuscitation

The ILCOR systematic review on family presence during adult resuscitation⁶ identified 31 studies (five studies reported on out-of-hospital resuscitation,⁵⁰⁻⁵⁴ 24 studies reported on in-hospital resuscitation,⁵⁵⁻⁷⁸ and one study reported on both in- and out-of-hospital resuscitation⁷⁹). The following summation is drawn from the ILCOR CoSTR on family presence during adult resuscitation.⁸

3.1 | Patient outcomes

The effect of family presence during adult resuscitation on patient outcomes was varied.

Survival at a range of timepoints was the most commonly reported outcome. Four studies compared family presence versus no family presence: in three studies, family presence made no significant difference to survival (return of spontaneous circulation (ROSC),⁷⁶ 28-days⁵¹ and 30-days⁷⁸) and in one study family absence decreased ROSC and survival to discharge.⁶⁶

3.2 | Family outcomes

There were mixed results for depression^{50,51,60,74} and post-traumatic stress disorder (PTSD),^{51,52,60,74} but family presence during resuscitation was associated with reduced anxiety or anxiety-related symptoms.^{50,51,74} Family member experience of presence during resuscitation was mixed.^{53,57,62,68,69,72,75,77,80} The major themes were families:

- would witness resuscitation again,^{57,72}
- believed it enabled management of their grief⁵⁷ and adjustment to their family member's death,⁷² and
- believed was important and helpful to be present.⁶⁹

Regret was minimal in both families who were^{51,62,80} and were not⁵¹ present during resuscitation of a family member. Some studies reported negative outcomes with families feeling that:

- resuscitation was brutal and dehumanising,⁵³ distressing,^{53,77}
- concerned about removing thoughts of the resuscitation,⁷⁷
- resuscitation was too long⁷² with excessive or unnecessarily heroics,⁵³ and
- they were afraid of disrupting or interfering with the resuscitation process⁷⁷ or losing emotional control.⁷⁷

3.3 | Healthcare provider outcomes

Providers had varied experience with, and perceptions of, family presence during resuscitation. Between 35% and 63%.^{69,71,78} of providers reported experience with family presence during resuscitation, but few had experience inviting families to be present.^{55,56,73,78} Providers had mixed experiences of family presence during resuscitation. Negative experiences were related to aggressive or disruptive family members, and provider concerns about psychological trauma for family members.^{65,70} The factors influencing provider experience of family presence during resuscitation included:

- need to balance compassionate care and technical competence,^{70,79}
- professional practice and responsibilities,⁷⁰ and

- shift from patient to family care and guilt associated with resuscitation termination.⁵⁴

Experience alone was not sufficient for effective family support,⁵⁴ and that there was a need for provider training for managing family presence, a family support person during the resuscitation, and unit based policies or protocols for family presence during resuscitation.^{54-56,64,67,71} Provider perceptions of family presence during resuscitation were largely positive with three-quarters of providers supporting family presence during resuscitation,^{69,72} and two thirds believing their performance was not impaired by family presence.^{57,72} Few providers had negative perceptions of family presence during resuscitation but concerns included hindered clinical performance,⁶⁷ interruptions or interference with care,^{67,71} and impaired team communication.⁷¹ Anxiety was higher in providers when families were present compared to not present⁵⁹ but family presence was not associated with increased stress.^{51,58}

Providers reported stark differences in the dynamic between families and healthcare providers relative to resuscitation context (out-of-hospital versus in-hospital).⁷⁹ During out-of-hospital resuscitation, family presence was a spontaneously occurring event, families played an active role, had the freedom to enter, stay or leave, were empowered and less impacted by professional dominance.⁷⁹ The role of family support was integrated into provider practice, and family presence was accepted as the norm.⁷⁹ During in-hospital resuscitation, family presence was a planned event occurring by invitation or demand, families were often in a separate location, access was restricted and controlled by healthcare providers, and when present, families were an observer role.⁷⁹ The role of family support was deferred to personnel external to the resuscitation, and family presence was dependent on professional judgment and provider preferences.⁷⁹

4.0 | Family care needs

A survivor and family-performed scoping review of 41 studies focused on family care needs identified ten themes and five domains:⁸¹

- focus on the family member in cardiac arrest: survival as a mutual goal,
- collaboration of the resuscitation team and family, supported presence or absences, physical closeness, shared information, and decision making,
- consideration of family context: discretion in initiating resuscitation (respecting advanced care directives and avoiding futile or unwanted resuscitation), cultural context,
- family post-resuscitation needs information, debriefing, and follow-up, and
- dedicated policies and procedures, support and direction.

5.0 | Knowledge Gaps

There are a number of knowledge gaps related to family presence during resuscitation:

- how to best prepare families who wish to be present during resuscitation,

- impact of the nature of resuscitation on patient, family, or providers such as patient characteristics, precipitating events/ illness, bystander CPR or resuscitation setting,
- cultural, religious, or other sociological or health equity factors that may influence attitudes and behaviors regarding family presence during resuscitation,
- impact of guidance documents (policies, protocols, guidelines) or family support personnel,
- cost-effectiveness of resourcing the resuscitation setting to accommodate family presence, and
- patient, family, and responder outcomes from family presence during resuscitation occurring prior to arrival of healthcare professionals (for example, in the context of bystander CPR)

Abbreviations

Abbreviation	Meaning/Phrase
ANZCOR	Australian and New Zealand Committee on Resuscitation
CoSTR	Consensus on Science with Treatment Recommendations
CPR	cardiopulmonary resuscitation
ILCOR	International Liaison Committee on Resuscitation
PTSD	Post-traumatic stress disorder
ROSC	Return of spontaneous circulation

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About this Guideline

Search date/s	Family presence during adult resuscitation - Systematic review: 10 May 2022 ⁶ Family presence during paediatric and neonatal resuscitation - Systematic review: 3 August 2019, updated 14 June 2020 ⁷
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<p>Question/PICO/SPIDER:</p>	<p>Family presence during neonatal resuscitation⁹ Population: In neonates requiring resuscitation in any setting Intervention: Does family presence during resuscitation Comparators: Compared to no family presence during resuscitation Outcomes: Result in improved patient outcomes (short and long term), family-centered outcomes (short and long term, perception of the resuscitation), and health care provider-centered outcomes (perception of the resuscitation, psychological stress) Study Designs: Randomized controlled trials (RCTs) and non-randomized studies (non-randomized controlled trials, interrupted time series, controlled before-and-after studies, cohort studies, qualitative) are eligible for inclusion. Unpublished studies (e.g., conference abstracts, trial protocols) are excluded. Timeframe: All years and all languages are included as long as there is an English abstract PROSPERO Registration CRD42020140363 All included studies were from the United Kingdom, United States of America or Canada.</p> <p>Family presence during adult resuscitation⁸ Population: Adults requiring resuscitation for cardiac arrest in any setting. Intervention: Family presence during resuscitation Comparators: Family not present during resuscitation Outcomes: · Patient outcomes (short and long term): return of spontaneous circulation, survival (to hospital admission, hospital discharge/30-days, 3 months, 6 months, 1 year), survival with good neurological outcomes (at same time points), depression and anxiety. · Family (or significant other) outcomes (short and long term): PTSD, coping, perception of the resuscitation, depression and anxiety amongst family members, complicated grief syndrome. · Health care provider outcomes: perception of the resuscitation, performance, perceived futility in some circumstances, psychological stress including projection to provider's own family. Study Designs: Randomized controlled trials (RCTs) and non-randomized studies (non-randomized controlled trials, interrupted time series, controlled before-and-after studies, cohort studies) were included, and unpublished studies (e.g., conference abstracts, trial protocols) were excluded. Timeframe: All years and all languages were included as long as there was an English abstract. PROSPERO Registration CRD42021242384 Included studies were from United States of America (n=7), United Kingdom (n=4), Iran (n=3); two studies each from Turkey, Australia, France, and Sweden; and one study each from Taiwan, Switzerland, Jordan, Ireland, Israel. One study spanned several Europe countries.</p> <p>Patient care needs^{10,81} Sample: Persons experiencing cardiac arrest care of a family member in any setting, both in and out of hospital. Phenomena of Interest: Cardiac arrest care begins with collapse, abnormal breathing, or physiologic monitor alarm and continues until the family member's body is inaccessible or the family member's status becomes more certain, that is, they emerge from coma. The needs of families including formal and informal services and tangible and intangible supports. This may include information, presence, resources, and follow-up. Design: Meta-synthesis of research using interviews, focus group discussions, observation, and indepth or key informant interviews. Evaluation: Narrative findings describing family members' experience of cardiac arrest and any care needs, preferences, or wishes they express. Research type: Qualitative research, and no time or language restrictions. Included studies were from United States of America (n=11), Sweden (n=8), United Kingdom (n=4), two studies each from France, Norway, Belgium, and one study each from Poland, Finland, Canada Hong Kong, Denmark, Korea, Australia, Japan, Iran, Spain and Switzerland.</p>
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Method:	This Guideline was developed under the processes outlined in Guideline 1.4. Evidence review included: review of the ILCOR systematic reviews and published CoSTRs (including peer-review and draft version on website).
Primary reviewers:	Julie Considine, Kathryn Eastwood, Kevin Nation, Janet Bray, Judith Finn, Peter Morley, Jason Acworth, Tracy Kidd, Helen Liley, Marta Thio, Craig Ray, Andrew Tongs, Anthony Cameron
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