## **Children's Health Queensland**

# **Evaluating the impact of national education in paediatric palliative care:** Quality of Care Australia (QuoCCA).

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Quality of Care **Collaborative Australia Delivering Education in Paediatric Palliative Care** 

# Background

QuoCCA provided paediatric palliative care (PPC) education and mentoring across Australia through a collaboration of six tertiary PPC services, funded for 5 Nurse Educators, a National Allied Health Educator, and 3 Medical Fellow positions, supported through National Project staff in Children's Health Queensland.

# Methods

Evaluation was conducted through:

- Pre and post education surveys including a 5 point Likert scale related to level of confidence and knowledge.
- Measures across 9 domains related to the care of the child and family:
  - Managing a new referral •
  - Symptom management pain, nausea, dyspnoea, seizures, fear/anxiety
  - Giving medication, including subcutaneous
  - Preparing the family

- Statistics were performed on the survey results, including:
  - Wilcoxon signed ranks test on the scores pre and post education
  - Binomial logistic regression to determine the factors that predict improvement following education



- Using local agencies and resources
- These measures were related to 8 independent variables:
  - Education Education type, length of education session, state, remoteness, financial year
  - Participant Previous experience caring for a child with a life limiting condition, previous education in PPC, occupation.

# Results

# **QuoCCA 1 outputs 2015-2017:**

- 337 education sessions, 767 hours, 5773 attendees
- In every state and territory of Australia
- Medical Fellow positions in 3 tertiary hospitals
- Paired pre and post surveys completed by 969 participants
- Participants included 808 doctors, 3280 nurses, 562 allied health professionals, 617 others (teachers, funeral directors, pastoral carers etc) and 506 of unrecorded occupation.

# **Education impact:**

All participants showed a significant increase in knowledge and confidence for all measures following education (Wilcoxon signed ranks P<0.001).



#### Average confidence for paired pre and post education surveys (n=969)

## **Predicting improvements in confidence / knowledge**

- Previous experience with caring for a child with a life limiting condition
  - Those with no previous experience were 1.9 to 2.7 times more likely to improve post education along 5 domains (referral management, pain, nausea, seizures, preparing family)
  - Those with previous experience had significantly higher scores for all measures pre and post education.
- Previous education in paediatric palliative care
  - Those with no previous education were 1.5 to 2.5 times more likely to improve post education along 8 domains (managing referrals, pain, nausea, dyspnoea, seizures, fear/anxiety, resources and preparing the family)
  - Those with previous education had significantly higher scores for all measures pre and post education.
- Length of education session
  - Participants in full day education sessions were 1.5 2.2 times more likely to improve following education along the domains of managing referrals, pain, nausea, fear/anxiety, resource and preparing the family.
  - Half day session participants were 1.6 1.7 times more likely to improve following education compared to those doing short education sessions along the domains of managing pain and nausea.
- Occupation was not a predictor for level of improvement in knowledge or confidence. •

## **Participant comments**

Where QuoCCA 1 provided education:

NORTHERN TERRITORY

Australi

SOUTH

• "I feel more confidence with assisting families in caring for their palliative child, conversing with them, showing empathy/compassion and guiding them to services available." "Though I was unaware about PPC, after attending today's class, I feel I am filled with vast information about PPC and confident enough to deliver care to a terminally ill child and also to support the child's family." liatric Palliative Care Palliative Care Services Patient / Carer Information Health Professionals

### **Educator learnings**

- More effective education had the following characteristics:
  - Tailored to the needs of the audience
  - Interactive •
  - Included story-telling, case studies and parent experiences





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#### The QuoCCA Project

*abive Australia (OupCCA)* project is set to deliver paediatric palliative c d young people with palliative and end-of-life care nee

The QuoCCA project education activities have been made possible through fur Department of Health, Australia through the National Palliative Care Projects initiative. (2014-201



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- Dosage of education was an important factor in predicting improvement in knowledge or confidence, including prior attendance at education and the length of the education session.
- Although those with no previous experience in caring for a child with a life limiting condition showed a greater improvement following education, both novice and experienced providers moved to higher levels of knowledge and confidence.

EVILLE HOSPITAL

# • Learnings from the QuoCCA 1 Project are being implemented in the QuoCCA 2 Project currently underway.

# • The project is currently working on simulation and interactive training, and accessible training modules and videos on the national website hosted

