



## Newborn Services Update

### Muswellbrook Hospital Evaluation Report

#### Neonatal Outreach Education

#### John Hunter Children's Hospital

### Background

The Newborn Services Update is a multi-disciplinary program developed and presented by medical, nursing and allied health professionals from John Hunter Children's Hospital.

### Venue

The Update was held at Muswellbrook Hospital on Monday and Tuesday the 13<sup>th</sup> & 14<sup>th</sup> August 2007.

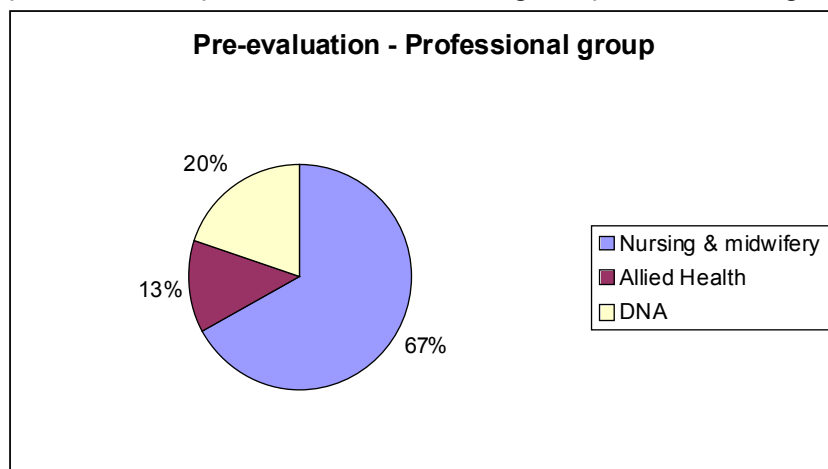
### Participants

The participants who registered for the Update included nurses, midwives, child & family health nurses, social workers, speech pathologists, physiotherapists, aboriginal health workers, occupational therapist and dietician. The participants came from Maitland, Cessnock, Singleton, Muswellbrook, Scone, Tamworth, Moree, Newcastle, Port Macquarie and Narrabri. In addition there were participants from DADHC, The Spastic Centre and UHCH. Thirty-one (31) participants signed the attendance sheet on Monday 13<sup>th</sup> August and thirty-five (35) participants signed the attendance sheet on Tuesday 14<sup>th</sup> August, though a head count on Tuesday afternoon indicated that there were forty-two (42) participants present at the sessions at that time.

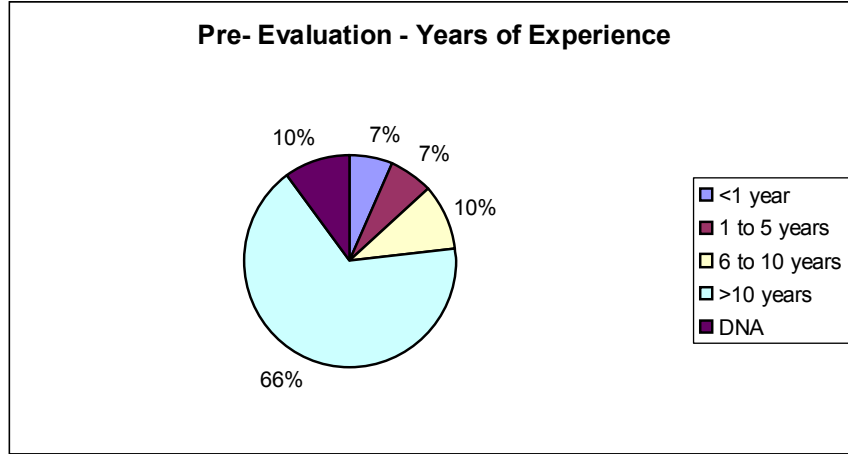
An additional session for general practitioners who were unable to attend the Update due to work commitments was presented on Monday evening with five (5) GP's attending. This session focused on Neonatal Resuscitation and no evaluation form was completed for this session.

Those attending were asked to complete a pre-evaluation survey and a post evaluation survey. Thirty (30) participants completed the pre-evaluation survey and thirty (30) participants also completed the post evaluation survey.

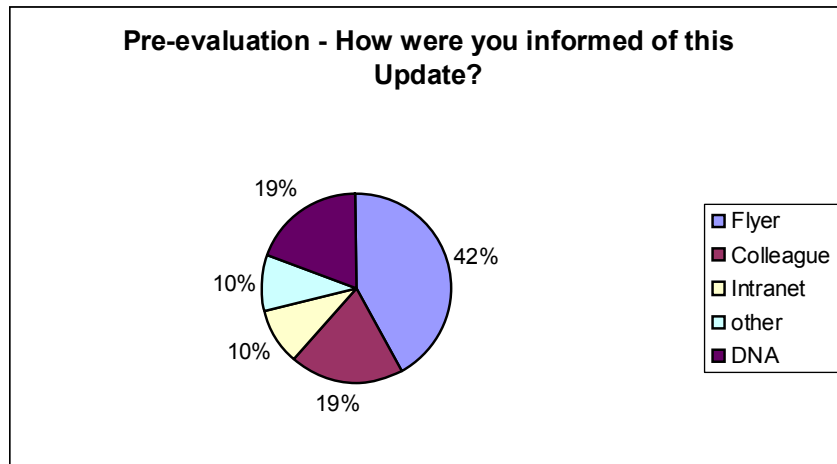
Some basic demographic questions were asked on the pre-evaluation survey. The participants in the Update came from a range of professionals groups.



The participants had varying lengths of experience working with newborns, with most 66% working with newborns for greater than 10 years. Perhaps this is a reflection of an aging rural health workforce, and also highlights the need for ongoing education programs to update the workforce in rural areas.



The participants indicated they were informed of the Update in a variety of ways.



**Content**

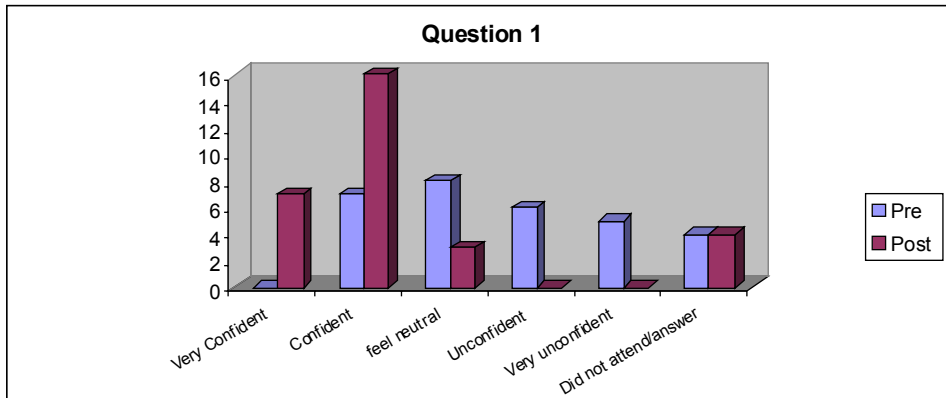
The content of the program was developed during several planning meetings of the outreach education team. The program for the Update is attached as Appendix 1.

### Results

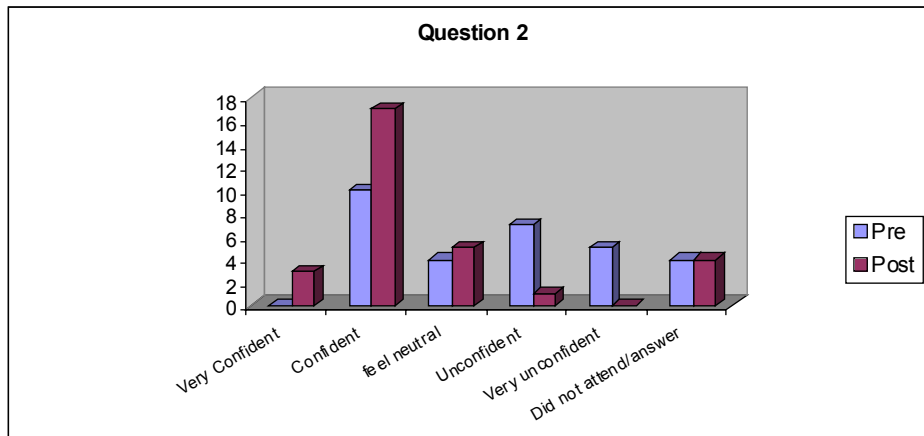
The evaluation form provided an opportunity for the participants to indicate their confidence in their knowledge and management of newborn issues they may see in their current clinical practice. The participants were requested to complete both pre and post evaluation surveys to identify if the program achieved its aim of increasing their understanding of newborn issues.

The participants were asked to rate their confidence on a scale (between 1 and 5), with 1 being very confident, 2 confident, 3 feel neutral, 4 unconfident and 5 very unconfident. The following graphs illustrate the results of the evaluations. Any improvement in the participants' confidence and / or knowledge will be demonstrated by the movement of the evaluation comments.

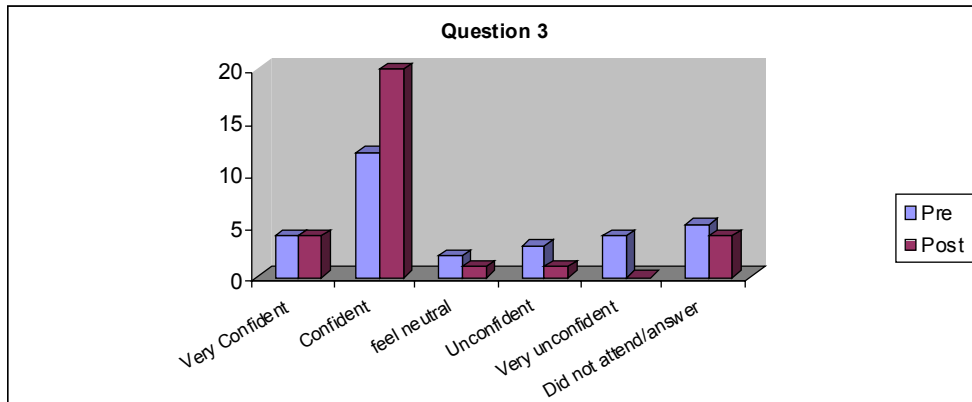
Question1. How confident do you feel to identify the risk factors for Developmental Dysplasia of the hip?



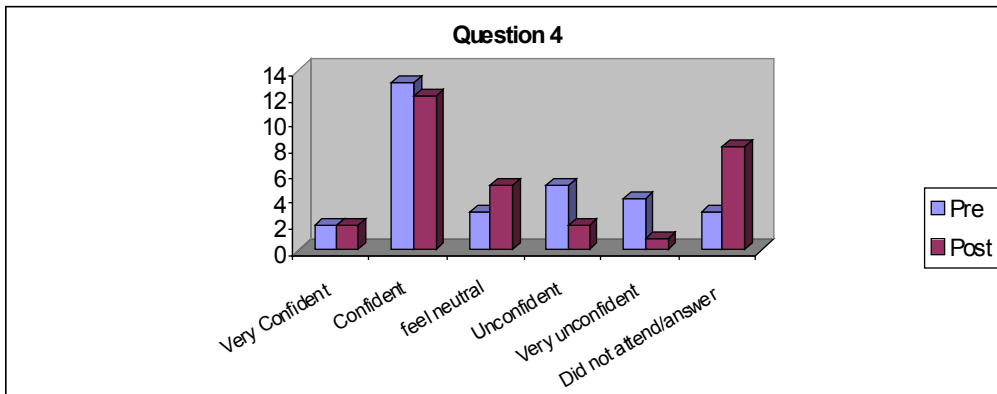
Question 2. How confident do you feel to perform a hip check and identify abnormalities?



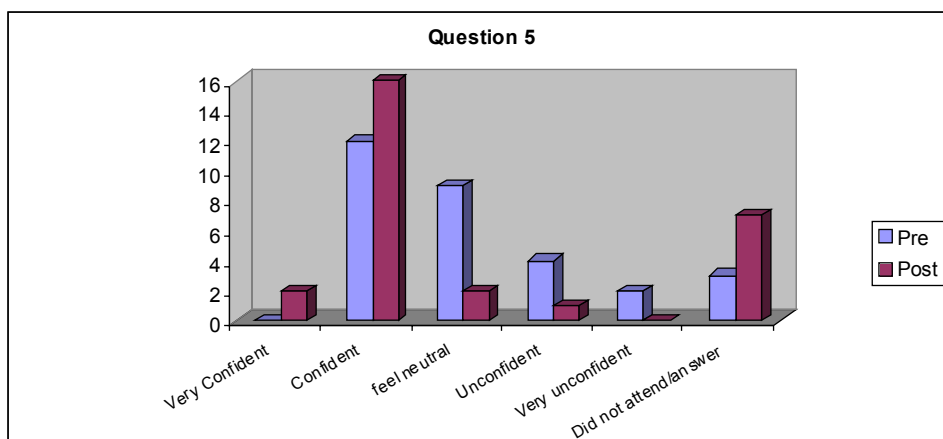
Question 3. How confident do you feel to know appropriate referral for a baby with an abnormal hip check?



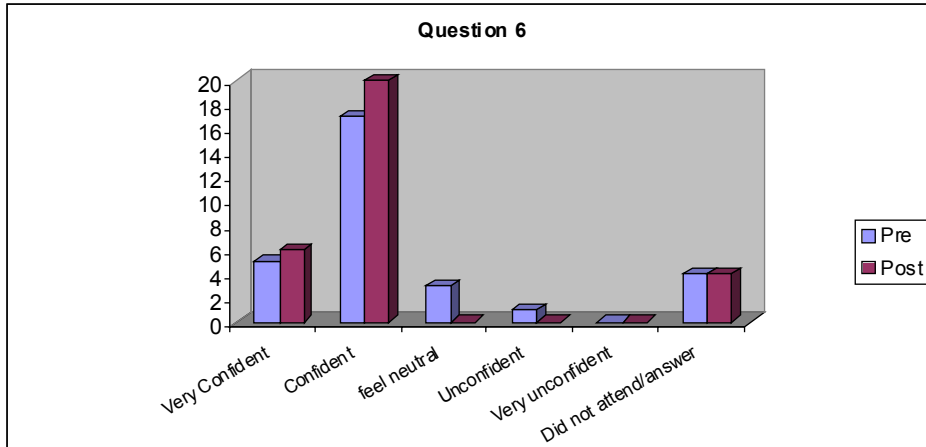
Question 4. How confident do you feel with your knowledge of the NETS retrieval process? *This session was not presented due to a late change in program.*



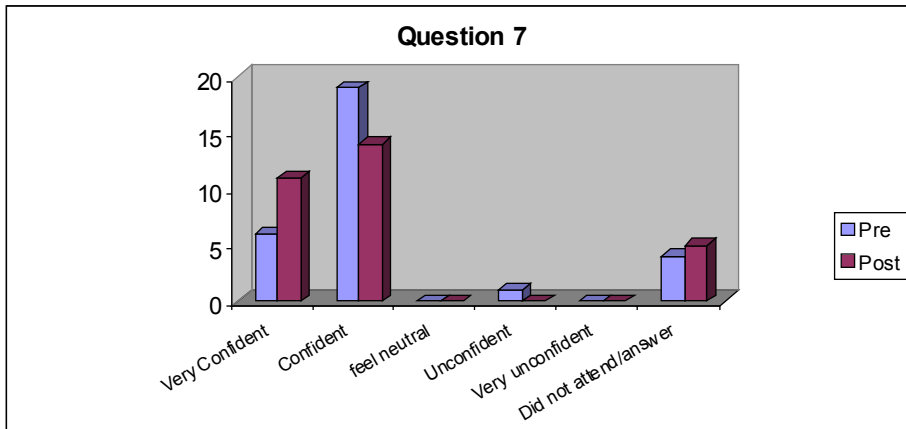
Question 5. How confident are you in your knowledge of newborn services available in the Hunter New England Area Health Service (HNEAH)?



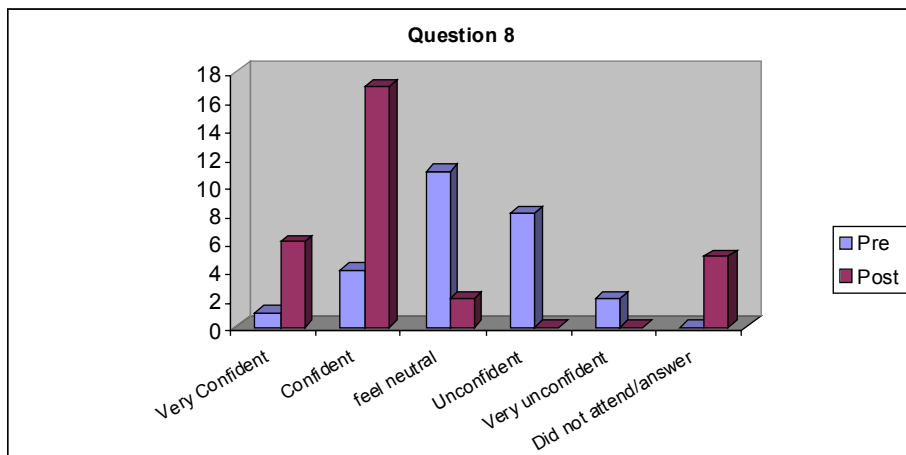
Question 6. Do you feel confident about knowing when a DoCS report should be made?



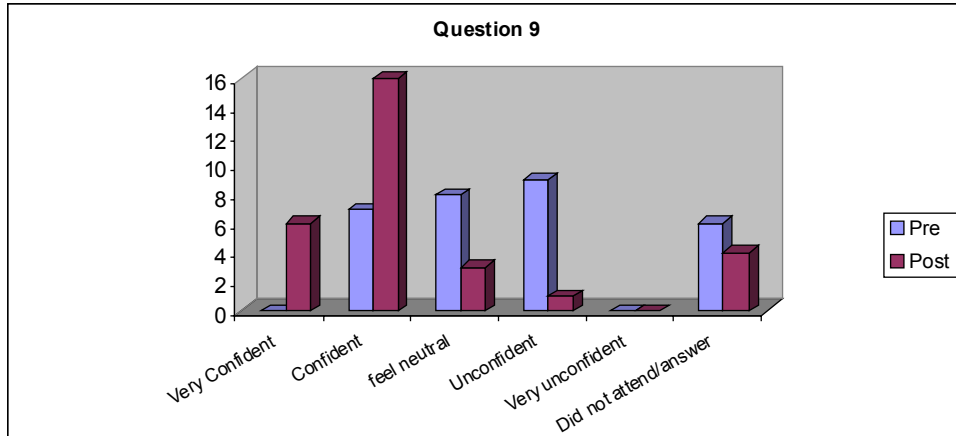
Question 7. Do you feel confident on how to notify DoCS?



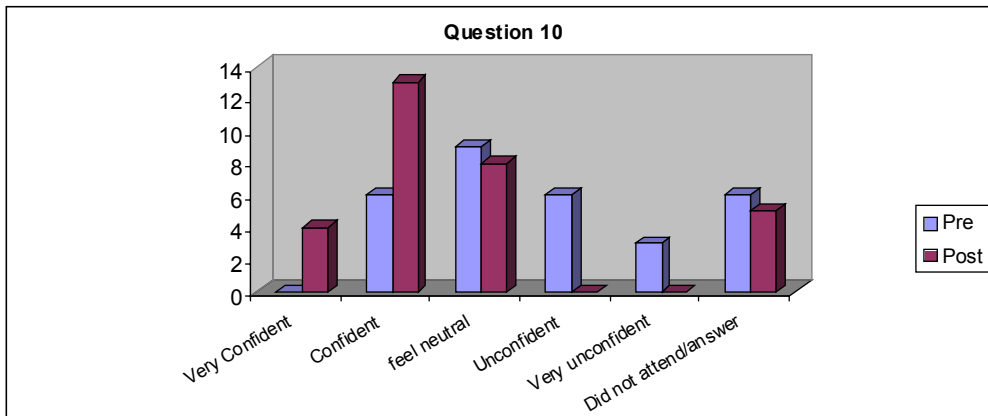
Question 8. Do you understand which cases are Coroners Cases?



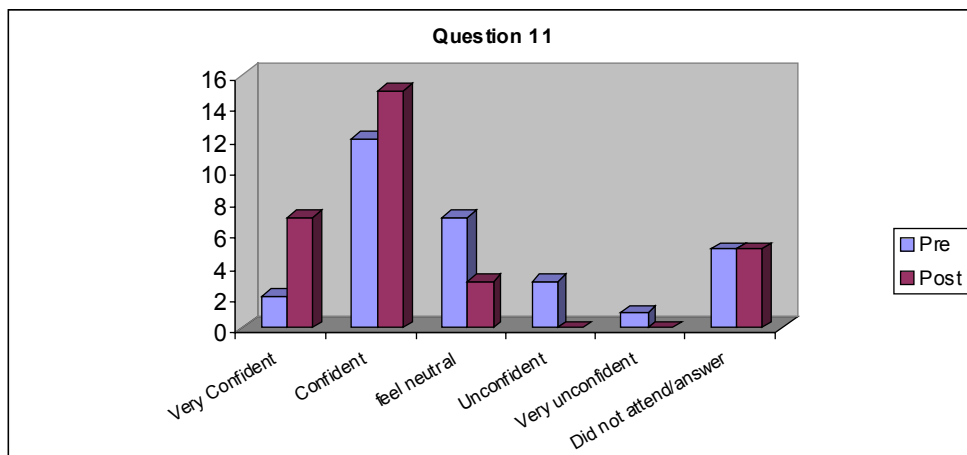
Question 9. How confident do you feel about identifying an infant's signs of stress or avoidance behaviours?



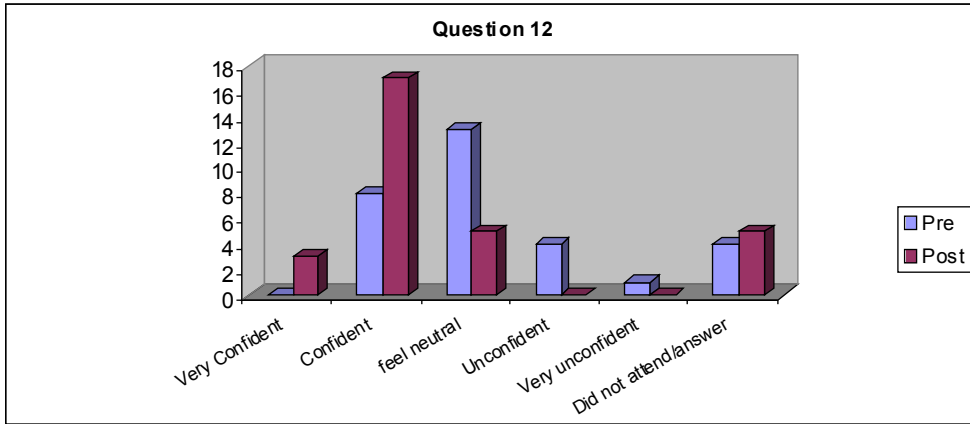
Question 10. How confident do you feel about identifying an infant's self-regulatory or approach behaviours?



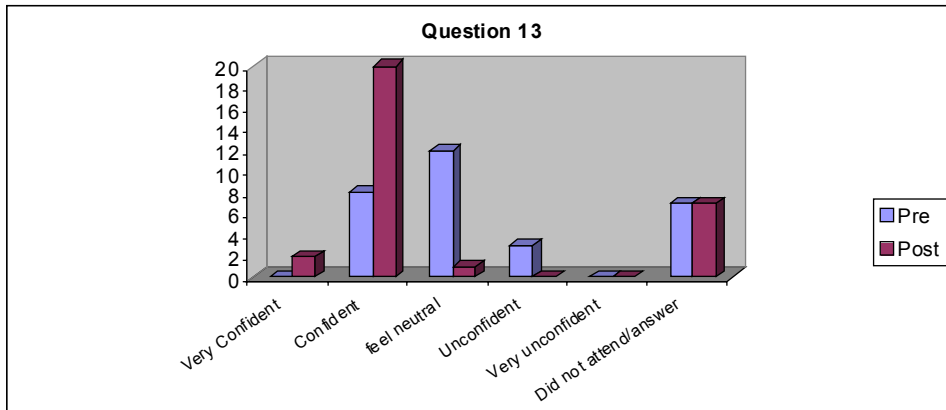
Question 11. How confident do you feel about recognising some strategies that would assist an infant to self settle?



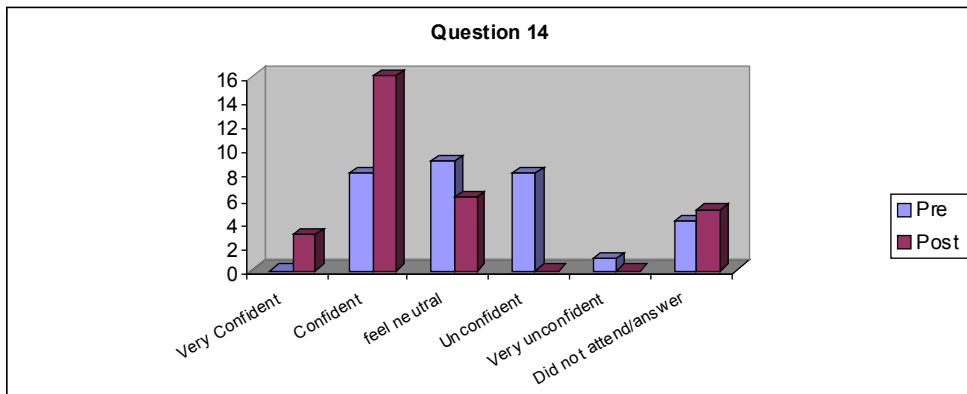
Question 12. How confident are you in understanding the clinical indications of why a baby might be on a specialised infant formula?



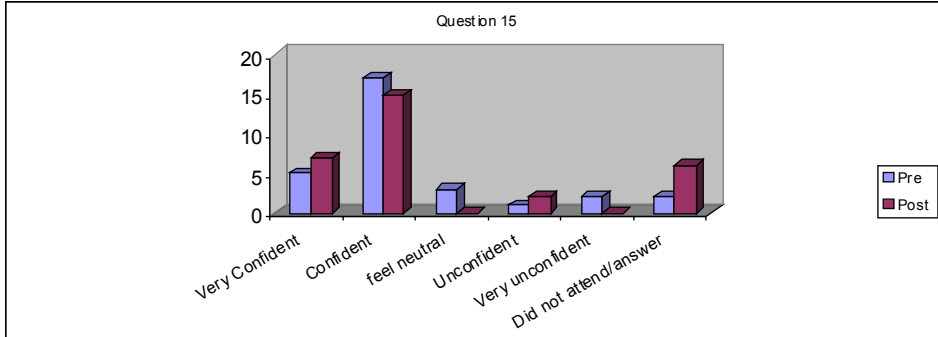
Question 13. How confident are you in understanding the clinical indications of why a baby might be on a specialised infant formula? **Note:** This question was mistakenly repeated and should be noted that it wasn't answered the same by participants.



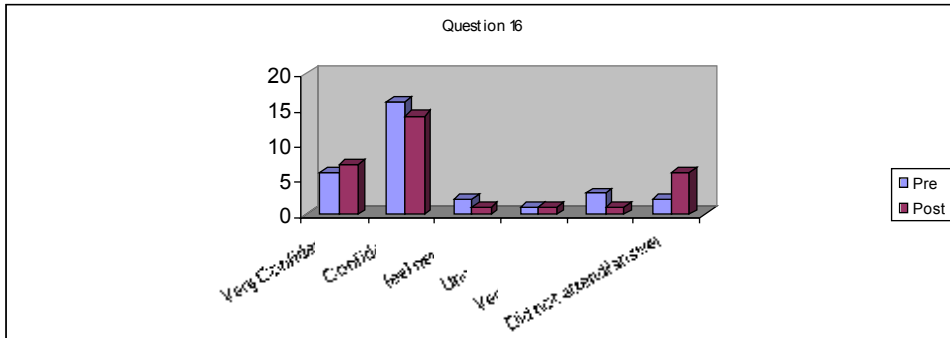
Question 14. How confident are you in your understanding of different ways to increase calories and nutrition in the preterm infant?



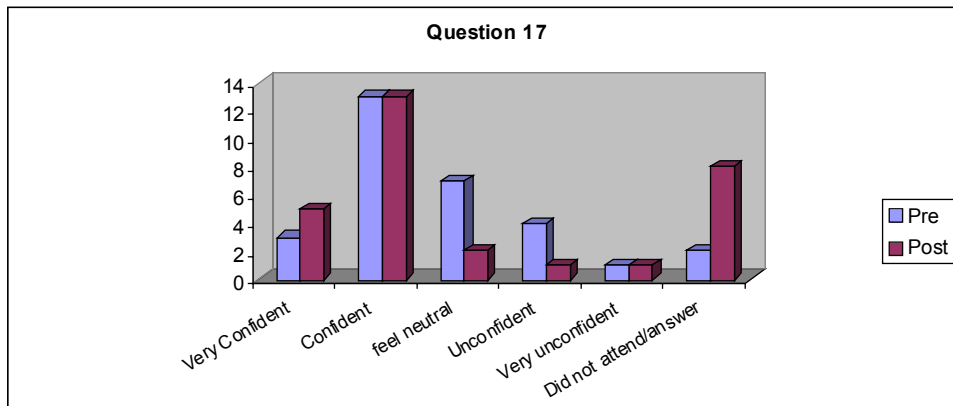
Question 15. Do you feel confident in giving lactation advice to new mothers?



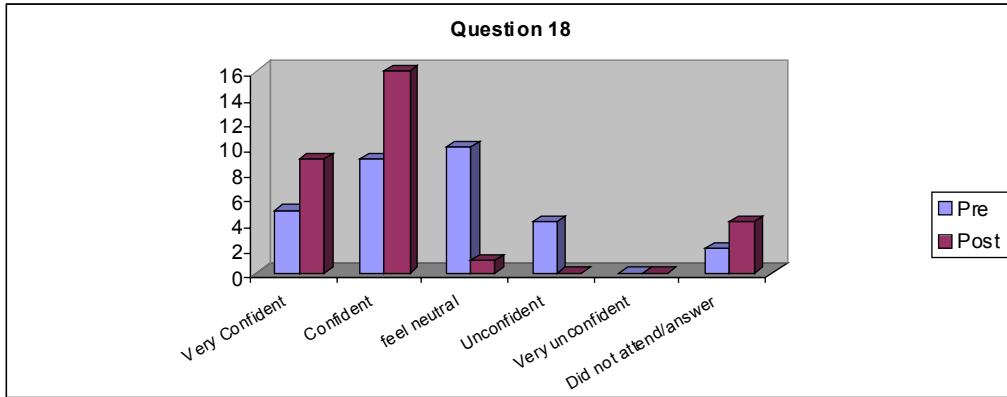
Question 16. How confident are you in assisting a mother increase her supply of breast milk?



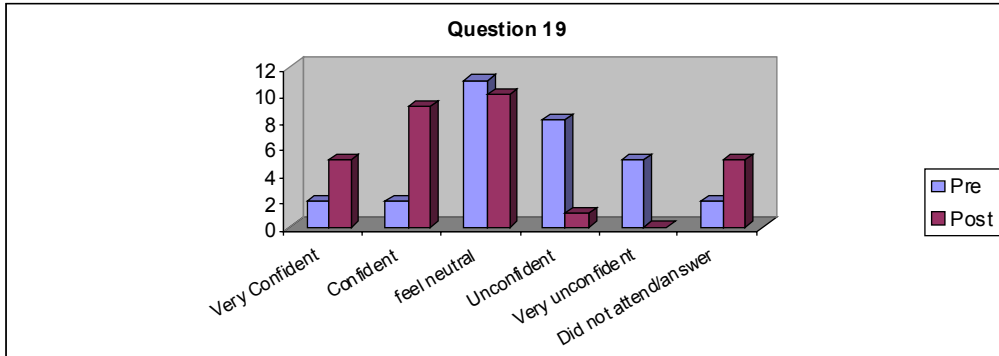
Question 17. How confident do you feel giving information on breastfeeding to a mother of a premature baby?



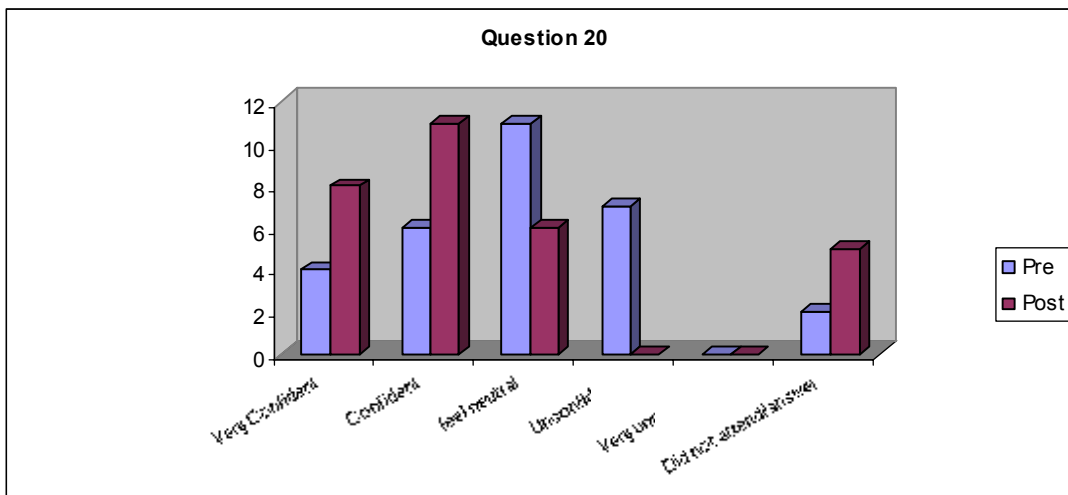
Question 18. How confident are you knowing when to refer a child to a speech pathologist for help with feeding?



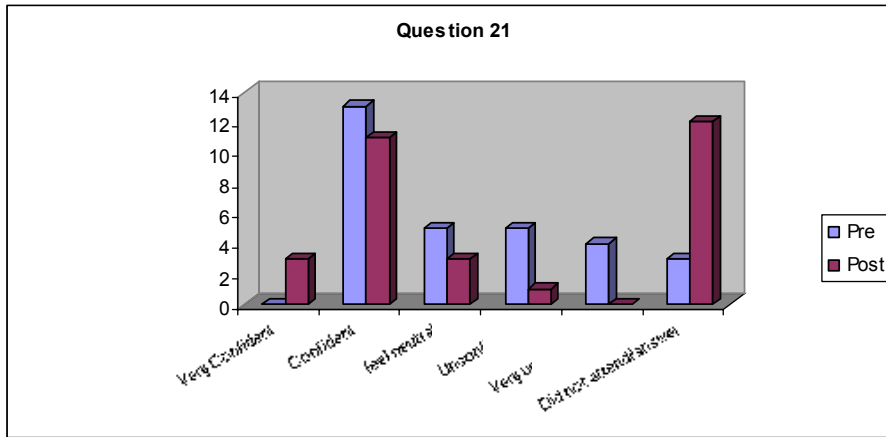
Question 19. How confident are you in knowing when to refer a child for a modified barium swallow?



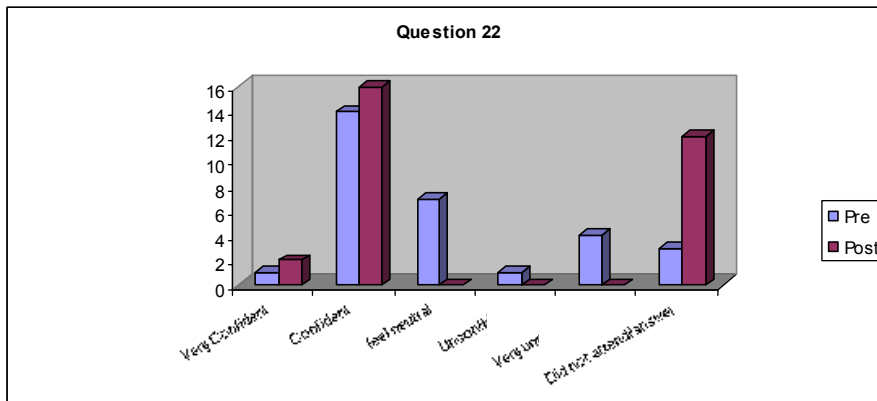
Question 20. How confident do you feel about your knowledge of normal speech and language development in the first three years of life?



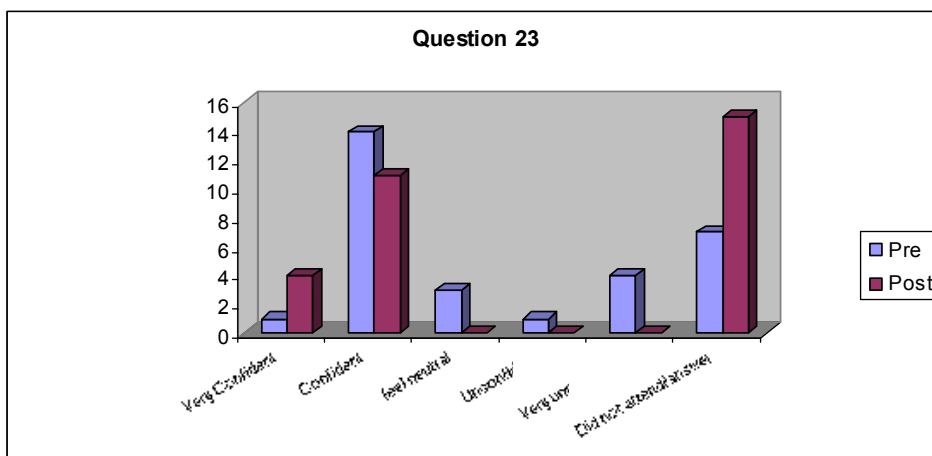
Question 21. How confident are you with your knowledge of the neonatal resuscitation algorithm?



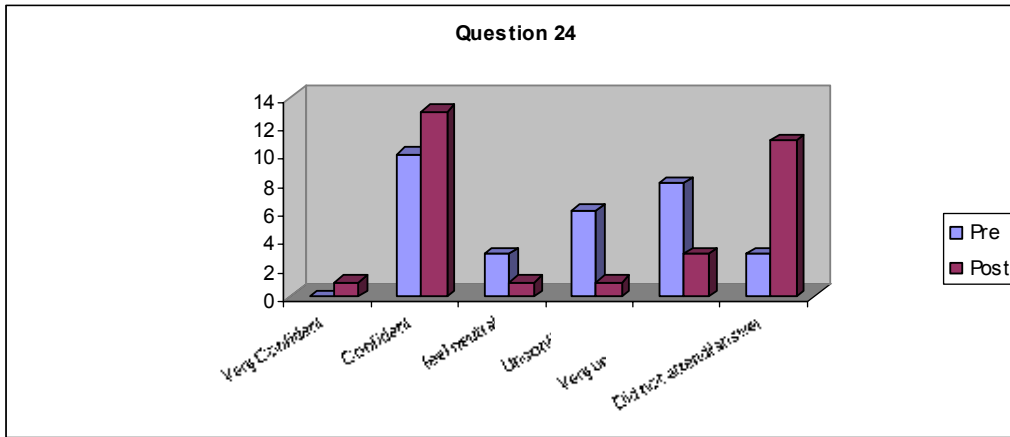
Question 22. How confident do you feel about performing cardiac compressions?



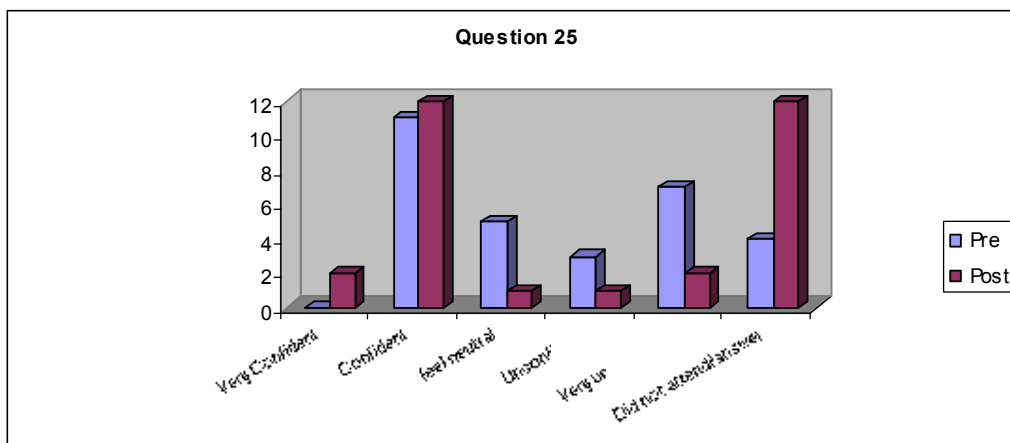
Question 23. How confident do you feel about performing cardiac compressions?  
**Note:** This question was mistakenly repeated and should be noted that it wasn't answered the same by participants.



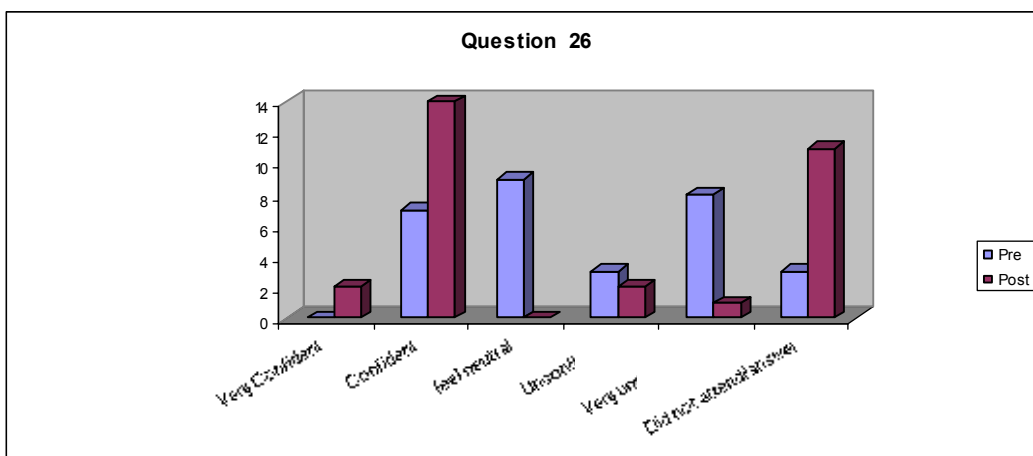
Question 24. How confident are you with inserting or assisting with the insertion of an umbilical venous catheter?



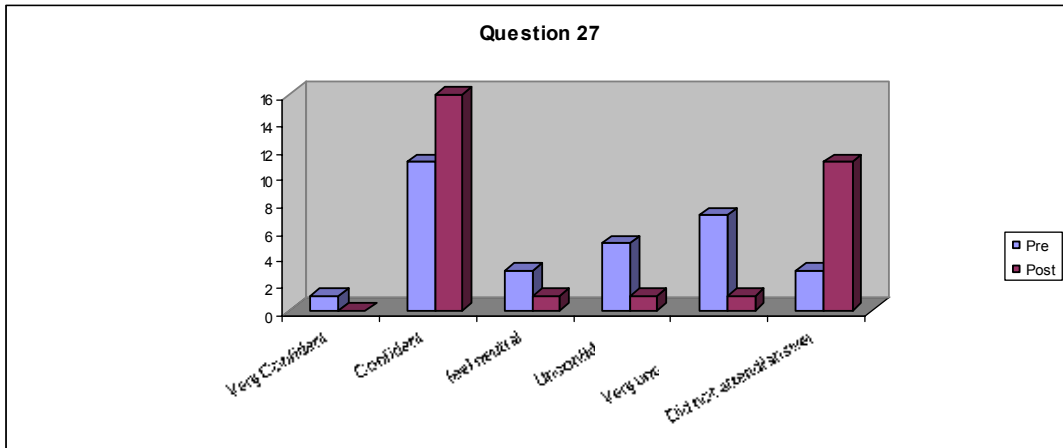
Question 25. How confident are you with intubating or assisting with the intubation of an infant?



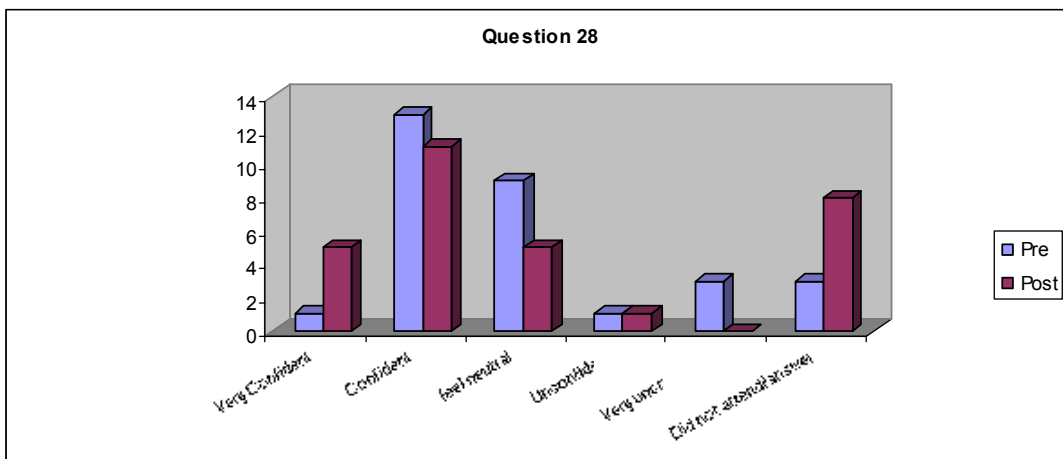
Question 26. How confident do you feel in confirming placement of an endotracheal tube?



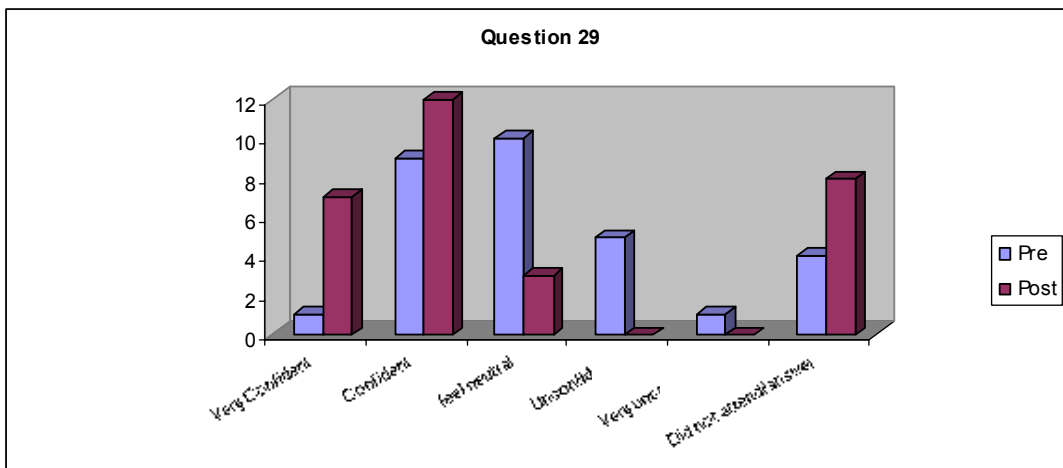
Question 27. How confident do you feel in providing the ongoing care for an infant that has required resuscitation?



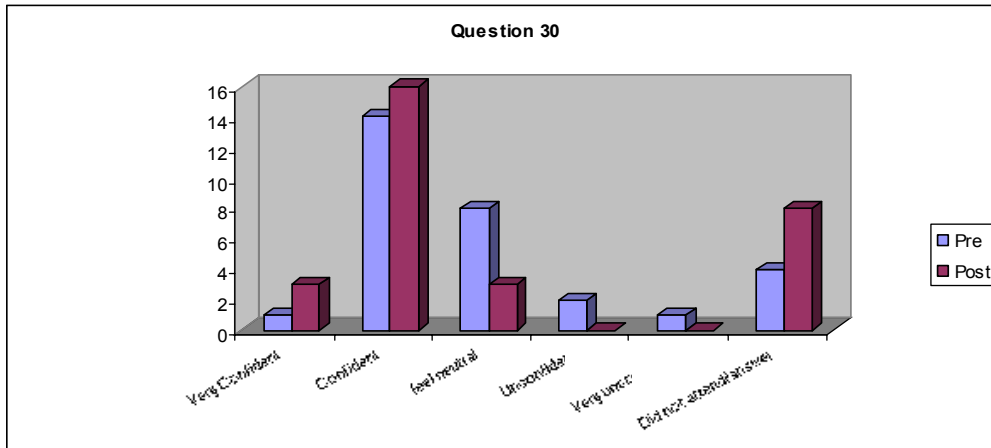
Question 28. How confident do you feel instructing a parent in the use of baby massage?



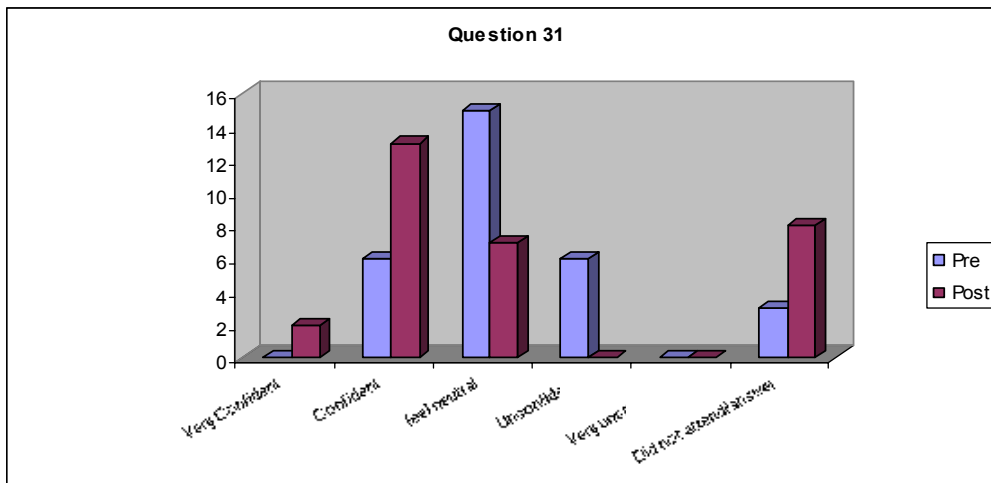
Question 29. How confident do you feel at positioning a preterm infant to facilitate their development?



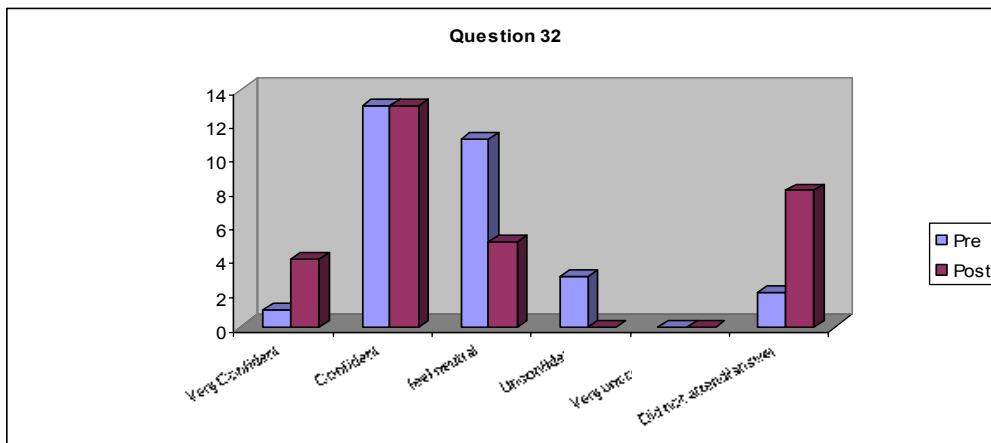
Question 30. How confident do you feel accepting infants transitioning from NICU to your services?



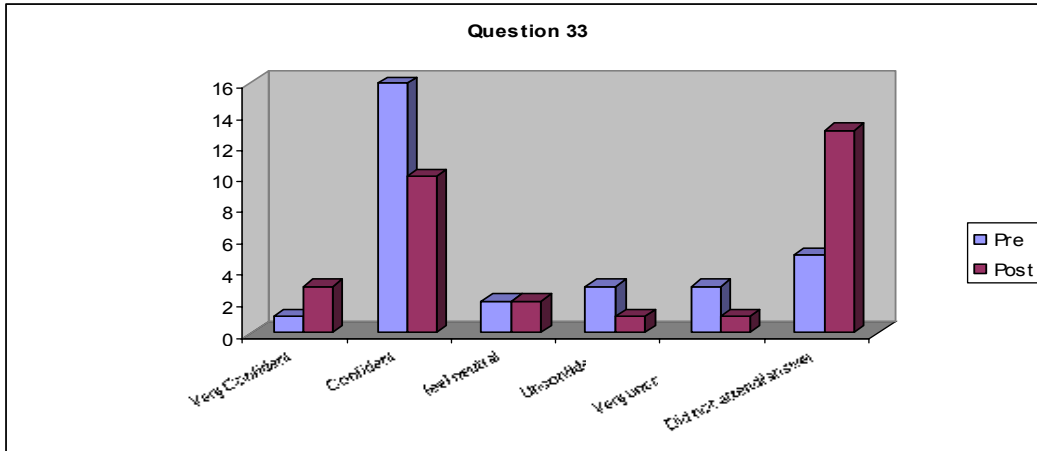
Question 31. How would you rate your knowledge of developmental care issues for premature infants?



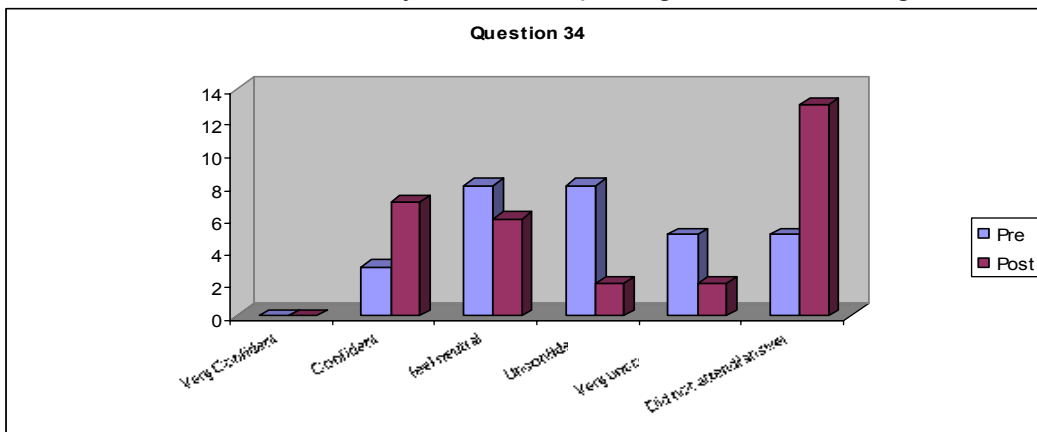
Question 32. How aware are you of other services available in the community and who to contact regarding referrals for infants?



Question 33. How confident are you with the management of an infant with hypoglycaemia?

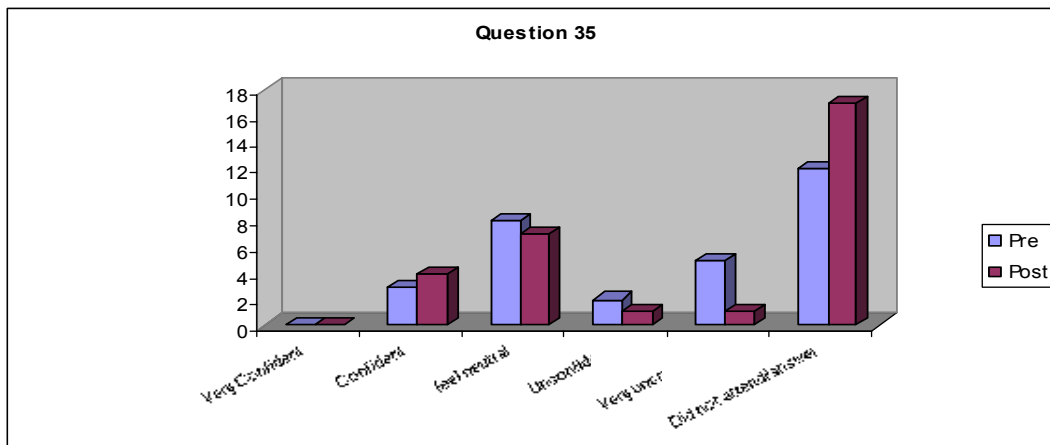


Question 34. How confident do you feel interpreting neonatal blood gases?

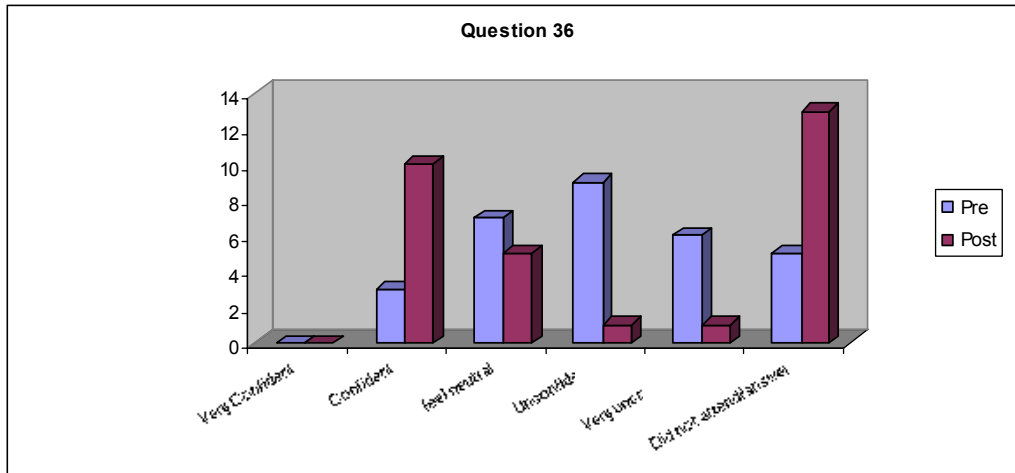


Question 35. How confident do you feel interpreting neonatal blood gases?

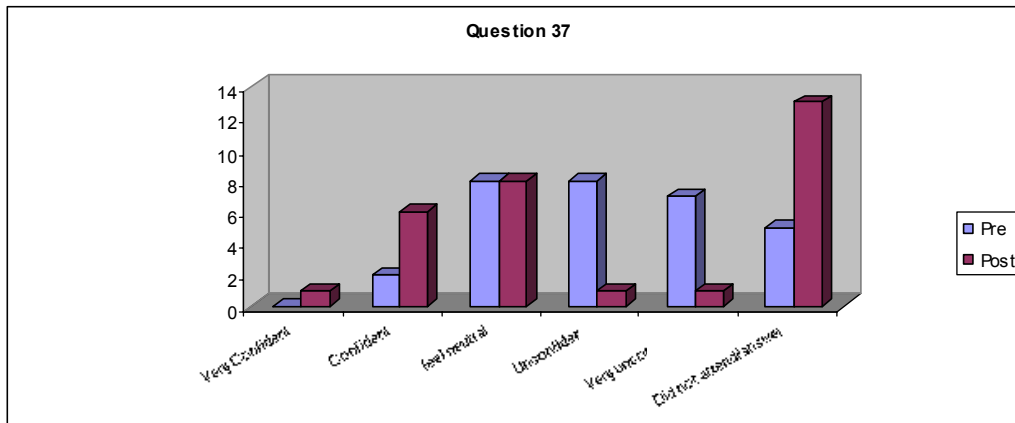
**Note:** This question was mistakenly repeated and should be noted that it wasn't answered the same by participants.



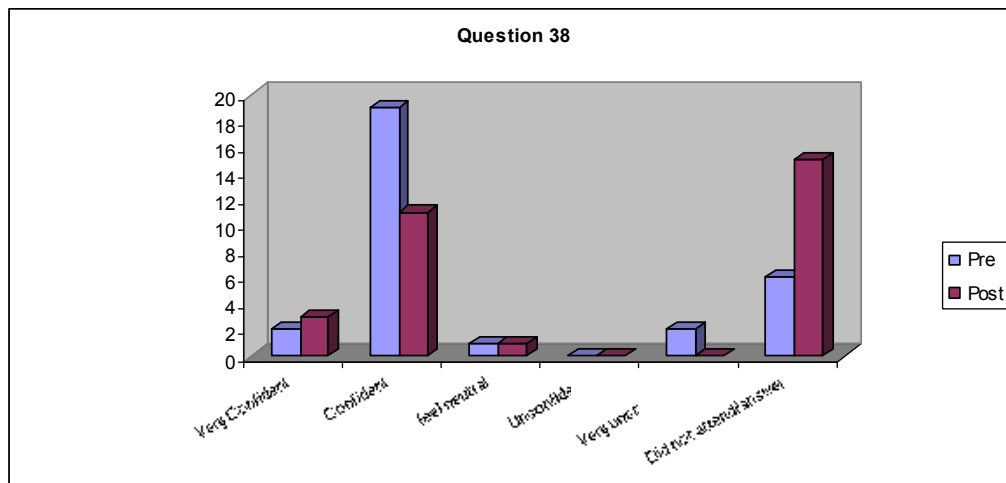
Question 36. How confident do you feel interpreting the chest x-ray of an infant who has signs of respiratory distress?



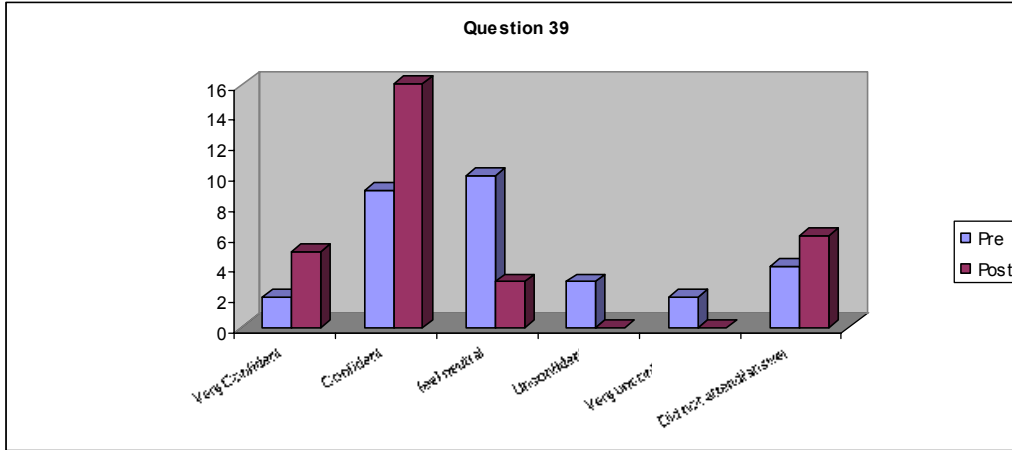
Question 37. How confident do you feel about performing or assisting with an emergency 'needle aspiration' for the temporary alleviation of a pneumothorax?



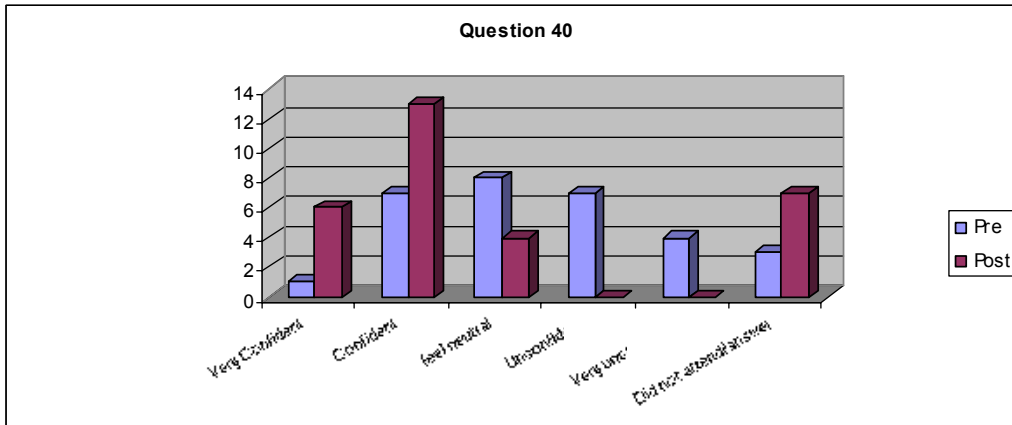
Question 38. How confident do you feel about your knowledge of management of jaundice in the newborn?



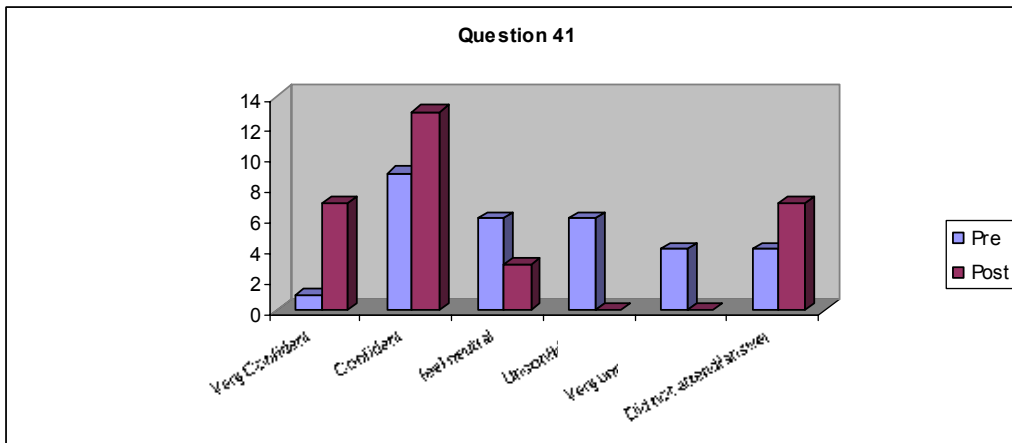
Question 39. How confident do you feel at positioning a preterm infant to facilitate their development?



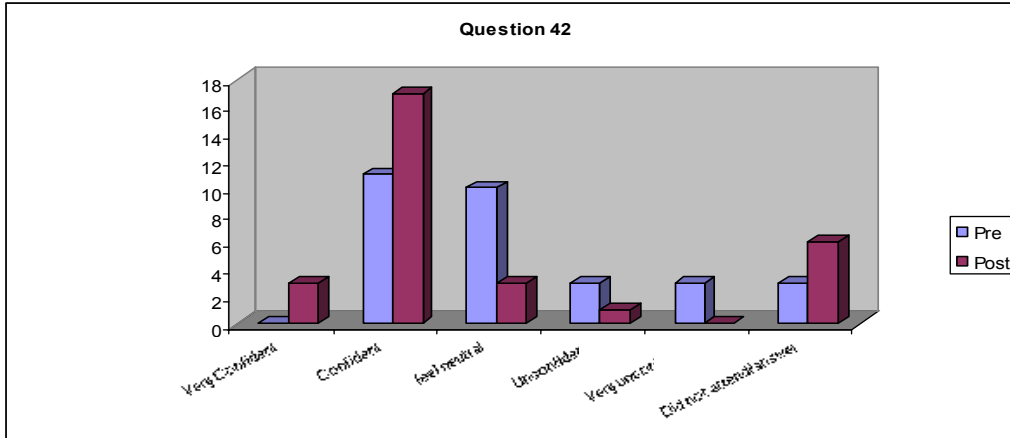
Question 40. How confident do you feel at identifying plagiocephaly and other head shapes?



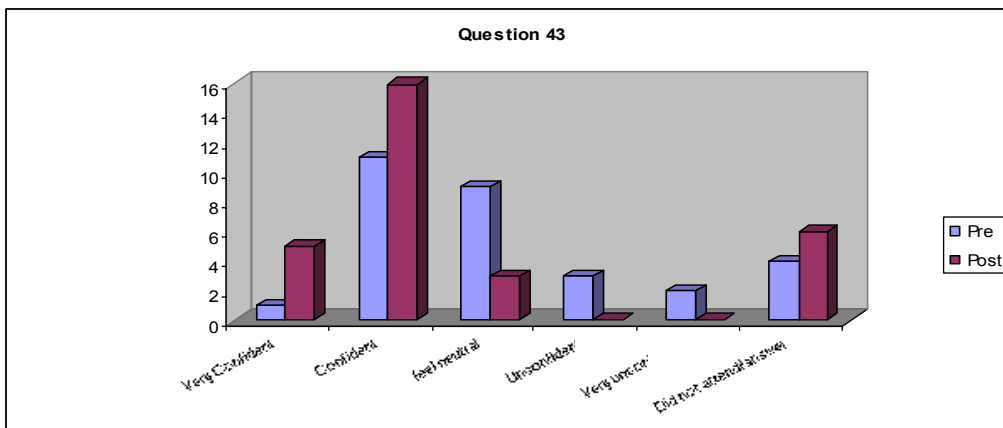
Question 41. How confident do you feel at advising parents on prevention strategies for plagiocephaly?



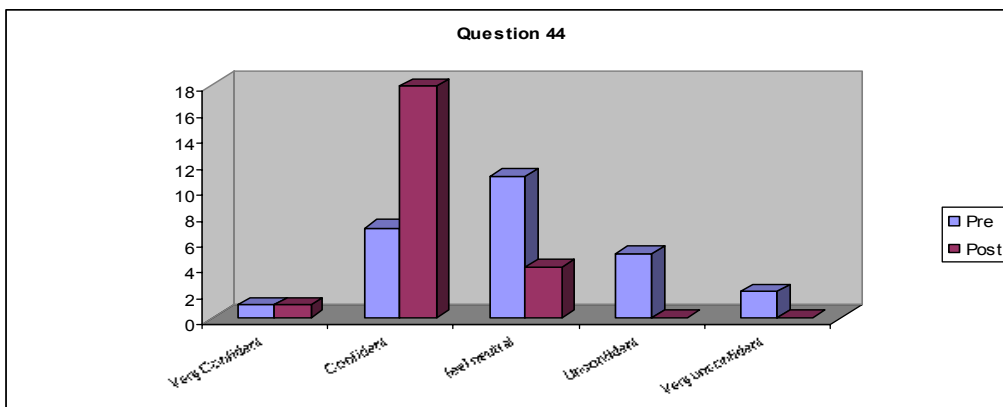
Question 42. How would you rate your ability to assist a parent to recognise and respond to their infant's stress behaviours?



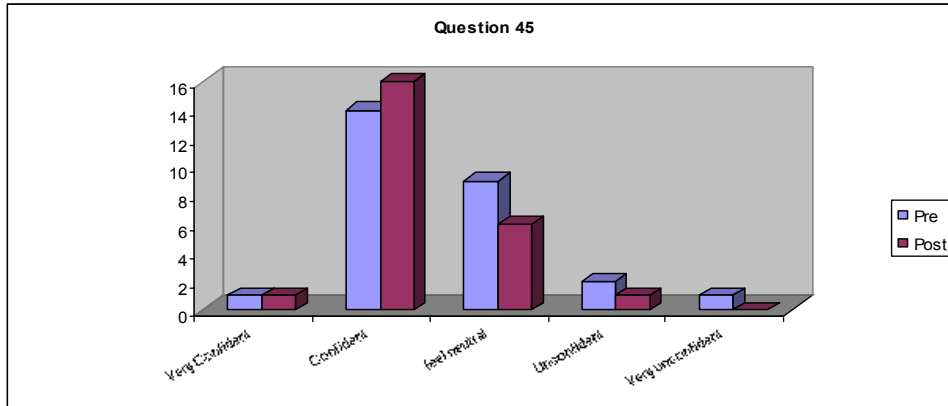
Question 43. How confident would you feel about discussing interaction methods with a parent?



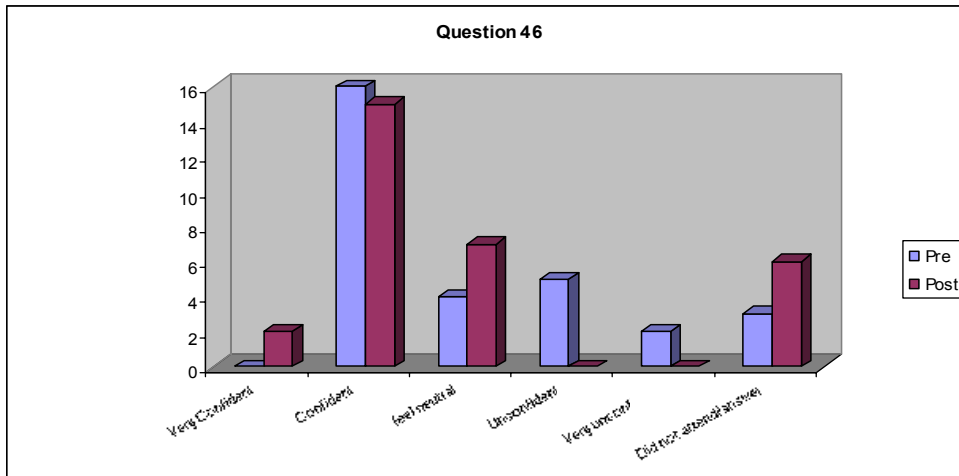
Question 44. How would you rate your knowledge of the different sensory systems that impact on infant development?



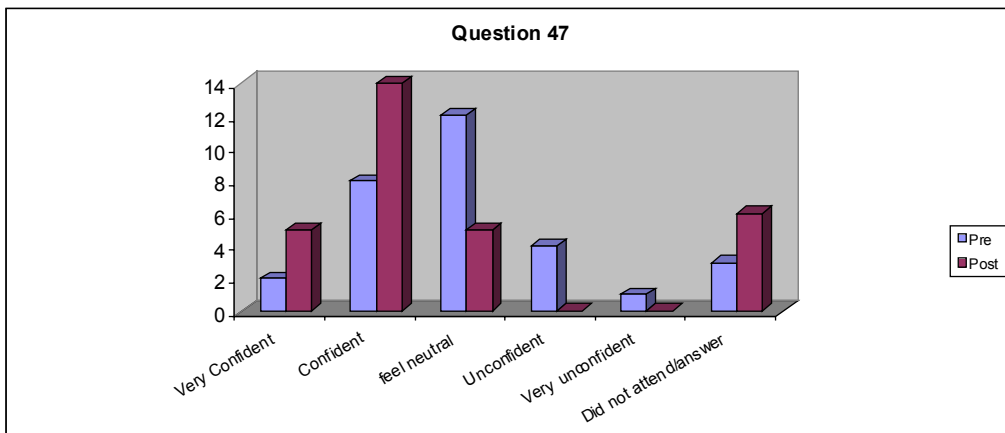
Question 45. Describe how comfortable you feel in dealing with feeding issues of the preterm infant.



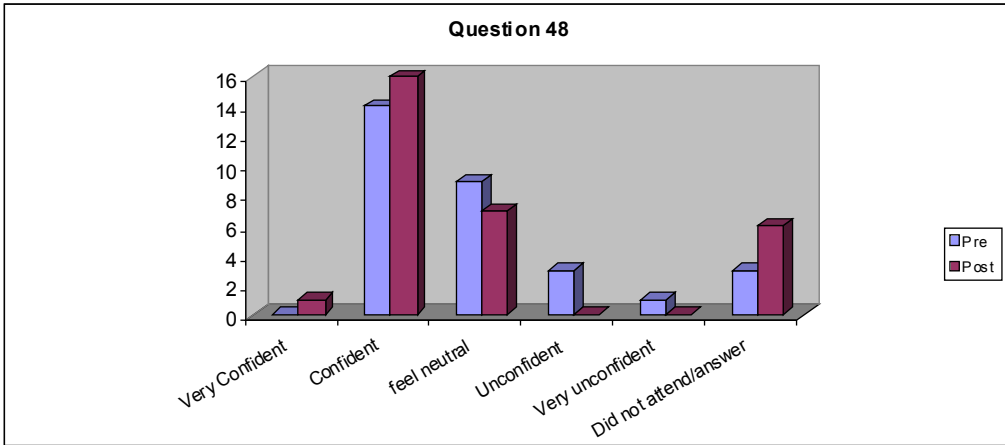
Question 46. How confident are you in assessing adequate growth in the preterm infant?



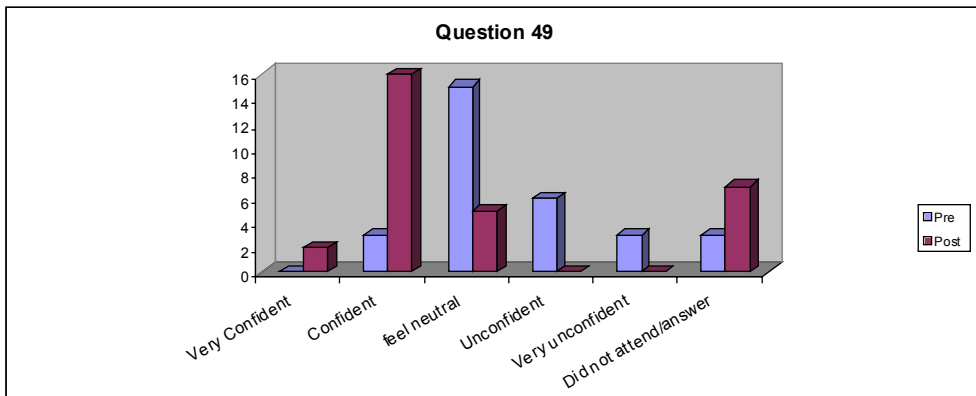
Question 47. How confident do you feel about giving advice to parents about when preterm infant should start solids?



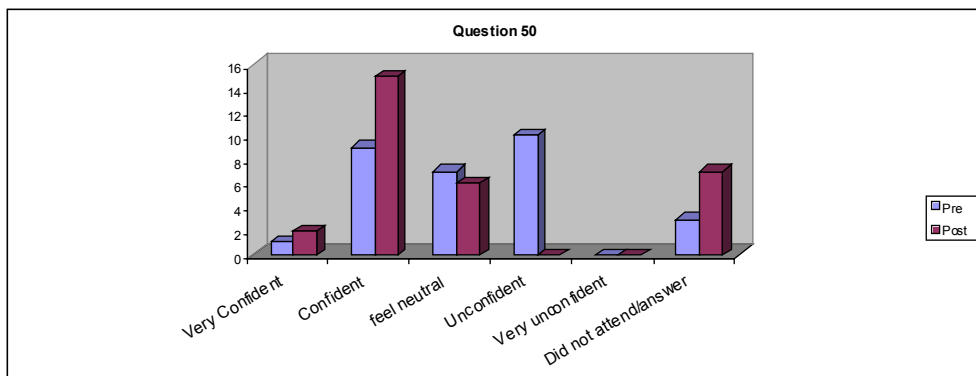
Question 48. Do you have a broad understanding re normal grief processes?



Question 49. Do you have an understanding re possible bereavement issues for parents who have had children in the NICU?



Question 50. Are you familiar with the concept of Family Centered Care?



The participants were also given an opportunity for written comments.

**Was this a suitable venue, and was the time appropriate?**

4 (13%) participants responded not suitable  
19 (63%) participants responded suitable  
5 (17%) participants responded very suitable  
2 (7%) participants did not respond

*Comments:*

Great to have education in a rural setting x 3  
Venue a little too small / crowded for number of people x 10  
Food was great / well catered (thank you to the cooks) x 5  
Larger venue x 3  
Program style excellent  
Very professional & pleasure to attend / Wonderful / well run x 4  
Timing very good x 3  
Lots of interesting information  
Venue, great parking & easy to find x 3  
Would be better to do long day 1<sup>st</sup> day then ½ morning for travelling home.  
Very good presenters

**What topics did they find most valuable?**

I really enjoyed all of it / very informative / valuable / great x 11  
I found all topics valuable but could not get to all sessions - Copies of sessions would be helpful to have.  
Work stations were good / good variety x 6  
Hope it continues.  
Physio & OT sessions, also learnt so much from speech pathology, dietetics and social work  
Hip checks / physiotherapy x 2  
Discussion re transition to community and availability of support.  
Palliative care  
Formula / dietetics x 2  
Feeding interventions & sensory systems x 2  
Parent – child interaction x 2  
Whole multidisciplinary approach very helpful / collaborative x 2  
Lactation consultant – drugs and management of substance abuse & breast feeding.  
A nice use of videos and slides and feedback.  
Neonatal resuscitation / practical x 12  
Hypoglycaemia x 2  
Jaundice good update / current info x 2  
RDS x 3  
Midwifery based topics excellent.  
Intubation – hands on very valuable  
Liked learning more about head shapes

**What topics did they find least valuable?**

Enjoyed all topics / every bit of new information I found valuable and of interest / got something from each section x 2

All were very interesting.

DOC's review

Hip checks

Palliative care – this is not something that my role includes.

Dietetics, it didn't seem very pertinent to rural area. I would have preferred regular health newborn issues rather than it be so focused on the VLBW, although it was all interesting x 2

**What other topics / practical sessions would they suggest be included in future sessions?**

- All topics relevant.
- Session styles excellent.
- What the NETS team expects us to have done ie before they get to us.
- Speech – barium swallow.
- More on drug affected babies
- Practical positioning
- Tour of NICU (even if virtual)
- MBS session
- Insertion of tubes for management of pneumothorax.
- Management of congenital abnormalities.
- Allergies in babies
- Eye problems
- Talipes
- Failure to thrive
- Managing feeding when breastfeeding not adequate decreased supply.
- More breastfeeding info time – maybe a workstation discussion group.

**Any further comments.**

- Thanks. It was well worth it. Fantastic to see a Road show come to the country.
- Would be good to all get together socially in the evening to share stories and info. Maybe all go to dinner at the same place. Networking is hard to do in rural areas so these are good opportunities. It is good to put faces and meet people personally.
- It would be good to get a project happening to look at a multidisciplinary team approach to manage transitioning and community therapy options for families of preterm infants returning to rural communities.
- Very valuable inservice - thank you all so much x 2
- Would have liked to attend both after lunch sessions on Tuesday / all sessions / all were of interest to me x 5

- As there was so much info (which was wonderful) it would have been helpful to have hard copies of PowerPoint slides to write around / handouts x 2
- Start earlier on Day 1.
- Catering wonderful. Suggest any special needs diets be offered / considered eg vegan / vegetarian.
- Rooms a bit cramped with everyone in them.
- To all involved an excellent 1 ½ days! Thoroughly enjoyable and extremely informative. All presenters did an excellent job!
- It was a great 2 days but I would have got much more out of it if I had handouts for all talks. Hand writing is difficult for me and very slow. Handouts help me greatly.
- Too many acronyms (series of letters standing for something). On slides could it be written out the long way a couple of times? I was less able to absorb the information because of this.
- I thought the update was wonderful – very informative and practical.
- The organisation of the days was great – food was lovely especially home baking of morning and afternoon tea.
- Great work shop / thank you very much for travelling to present this update – I would love to come to another update x 3
- Great day!

### **Funding**

Funding of \$15,000 to support the three 1 ½ day multidisciplinary programs was made available from the Northern Child Health Network.

### **The Future**

Following evaluation of this first program some minor amendment and modifications to the program are being discussed by the outreach education group.

Two further 1 ½ days sessions have been planned from current funding. The aim was to have 40 participants at each of the three programs to allow for small group work and interaction. The sites for these sessions have been chosen to cover as much of HNEAH as possible. The following dates have been scheduled with venues booked:

- *Tamworth Rural Referral Hospital* on Monday 26<sup>th</sup> November & Tuesday 27<sup>th</sup> November 2007. Due to the number of registrations received within a short time frame the numbers for this date have been increased to the capacity of the venue. This program was full within two weeks of distributing flyer – 54 participant registrations have been accepted with many people unable to be accepted.
- *Manning Base Rural Referral Hospital* on Monday 25<sup>th</sup> February and Tuesday 26<sup>th</sup> February 2008.

The information received from the pre and post evaluation surveys will be compiled with the aim of submitting an abstract for the Perinatal Society of Australia and New Zealand (PSANZ) annual congress being held in April 2008 at the Gold Coast Convention Centre.

**Conclusion**

The first of three multidisciplinary 'Newborn Services Updates' was held at Muswellbrook Hospital on the 13<sup>th</sup> and 14<sup>th</sup> August 2007. This program was well attended by a mix of allied health staff, midwives and Child and Family Health Nurses. The program was well accepted and had positive evaluations. The pre and post evaluations of the participants indicated an improvement in confidence and / or knowledge by attending the program. The demand for places at the program indicate the need for consideration of further 'Newborn Services Updates' to be planned when funding becomes available.

**APPENDIX 1**

# Program

## Monday 13<sup>th</sup> August 2007

12.30pm – Registration

**SESSION ONE**

**Combined Doctors, Midwives, RNs & Allied Health professionals**  
**Welcome & Introductions**

1pm

1.15pm

Rotate between 6 workstations

- Hip checks & management
- Formula's & boosting calories
- Overstimulation & infant stress
- Identifying feeding problems
- Lactation & increasing milk supply
- DoCS notification & Coroners case

5.00pm

Close

## Tuesday 14<sup>th</sup> August 2007

**SESSION TWO – Two Groups**

Group 1:

Doctors, Midwives, &amp; RN's

9am

Neonatal Resuscitation Update

11am

**MORNING TEA**

11.30am

Neonatal resuscitation Update

Group 2:

Allied Health Professionals Workshop

9am

Multidisciplinary approach to complex cases

11am

**MORNING TEA**

11.30am

Transition from hospital to community

1.30pm

**LUNCH****SESSION THREE – Two Groups**

2.15pm to 4.30pm

Group 1:

**Doctors, Midwives & RN's**

- Hypoglycaemia
- Management of RDS / Pneumothorax
- Jaundice

Group 2:

**Midwives, RNs & Allied Health Professionals**

- Positioning & head shape
- Infant parent interaction & stimulation
- Breast & bottle feeding techniques
- Growth charts & correcting for preterm infants
- Bereavement issues & death of an infant

5pm

**Evaluation & Close**



## Newborn Services Update

Tamworth Rural Referral Hospital

Evaluation Report

Neonatal Outreach Education

John Hunter Children's Hospital

### **Background**

The Newborn Services Update is a multi-disciplinary program developed and presented by medical, nursing and allied health professionals from John Hunter Children's Hospital.

### **Venue**

This was the second of three scheduled updates and was held at Tamworth Rural Referral Hospital on Monday and Tuesday the 26<sup>th</sup> & 27<sup>th</sup> November 2007. We were assisted by Robyn Skewes Clinical Midwife Consultant HNEAH (Northern) who accepted and recorded the registrations, arranged the venue and organised catering.

### **Participants**

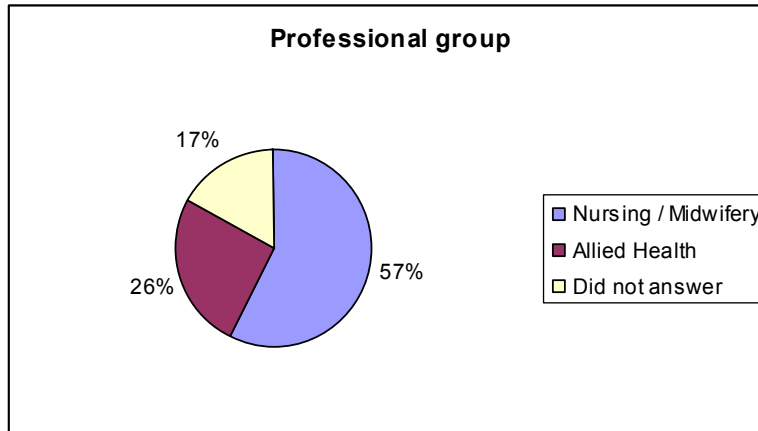
The participants who registered for the Update included nurses, midwives, child & family health nurses, social workers, speech pathologists, physiotherapists, aboriginal health workers, occupational therapist, dieticians, paediatrician and a psychologist. The participants came from Tamworth, Bingara, Gunnedah, Glenn Innes, Inverell, Muswellbrook, Moree, Mungindi, and Taree. Fifty-two (52) participants signed the attendance sheet on Monday 26<sup>th</sup> November and forty-six (46) participants signed the attendance sheet on Tuesday 27<sup>th</sup> November. The original plan for the Update was to accept forty (40) registrations, however, due to the number of registrations received within a short time frame the numbers were increased to the capacity of the venue. The program was full within two weeks of distributing the flyer – 54 participant registrations (see Appendix 1) were accepted with many people unable to be accepted.

An additional session for those who were unable to attend due to work commitments or as no further places were available was presented on Monday evening with a further twenty-five (25) participants attending, this group was comprised of medical officers, GP's, midwives and emergency nurses (see Appendix 2). This session focused on Neonatal Resuscitation and no formal evaluation form was completed for this session.

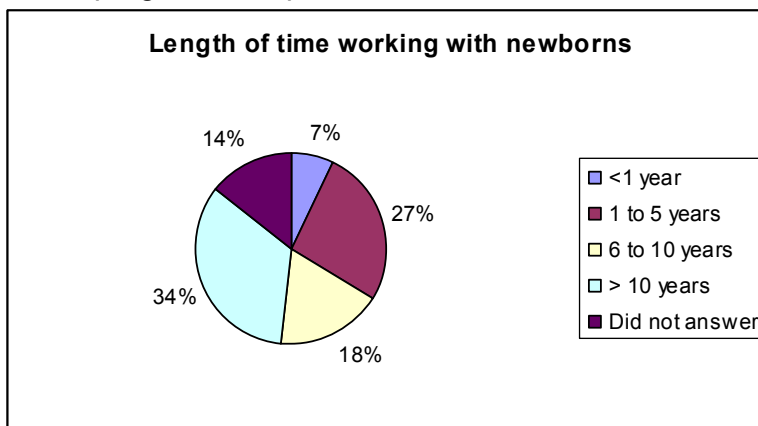
Those attending the 1 ½ day program were asked to complete a pre-evaluation survey and a post evaluation survey for the sessions they were planning to attend and those they attended. Thirty-nine (39) participants completed the pre-evaluation survey a return rate of 75%, with forty-two (42) participants completing the post evaluation survey a return rate of 81%.

Some basic demographic questions were asked on the pre-evaluation survey.

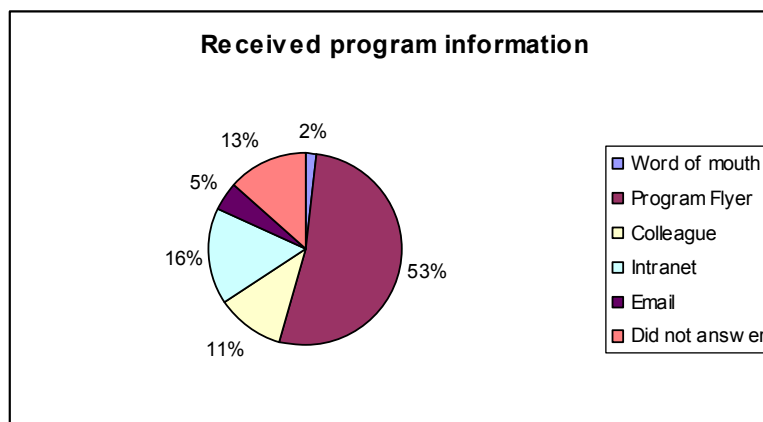
The participants in the Update came from a range of professionals groups.



The participants had varying lengths of experience working with newborns, with 50% working with newborns for greater than 6 years, highlighting the need for ongoing education programs to update the workforce in rural areas.



The participants indicated they were informed of the Update in a variety of ways, indicating that the variety of methods used for distribution of program registration was effective.



**Content**

The content of the program was revised following the evaluation of the first Update held in Muswellbrook in August during several review meetings of the outreach education team. The program for the Update is attached as Appendix 3.

As also suggested in the Muswellbrook Evaluation Report the presenters prepared handouts for most sessions for the participants.

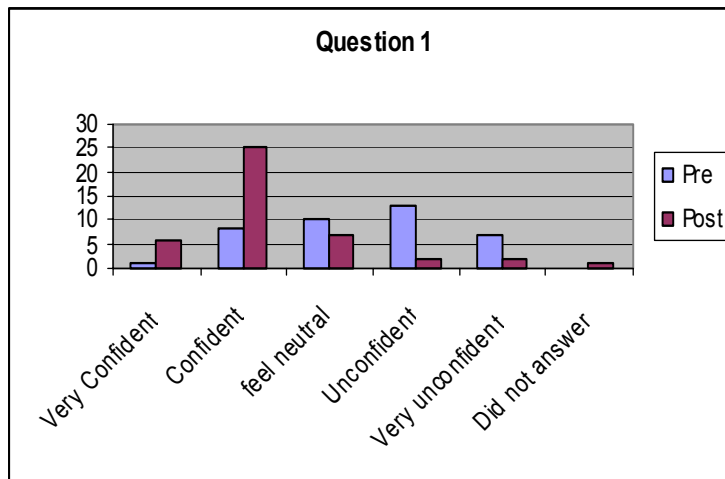
**Results**

The evaluation form provided an opportunity for the participants to indicate their confidence in their knowledge and management of newborn issues they may see in their current clinical practice. The participants were requested to complete both pre and post evaluation surveys to identify if the program achieved its aim of increasing their understanding of newborn issues.

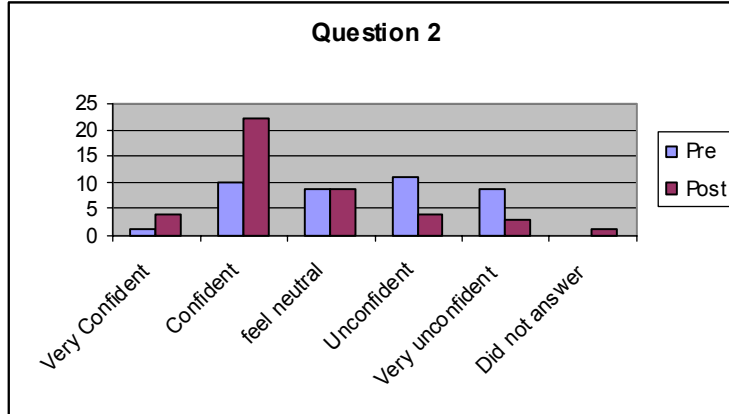
The participants were asked to rate their confidence on a scale (between 1 and 5), with 1 being very confident, 2 confident, 3 feel neutral, 4 unconfident and 5 very unconfident. The following graphs illustrate the results of the evaluations. Any improvement in the participants' confidence and / or knowledge will be demonstrated by the movement of the evaluation comments.

**All participants - Monday work stations**

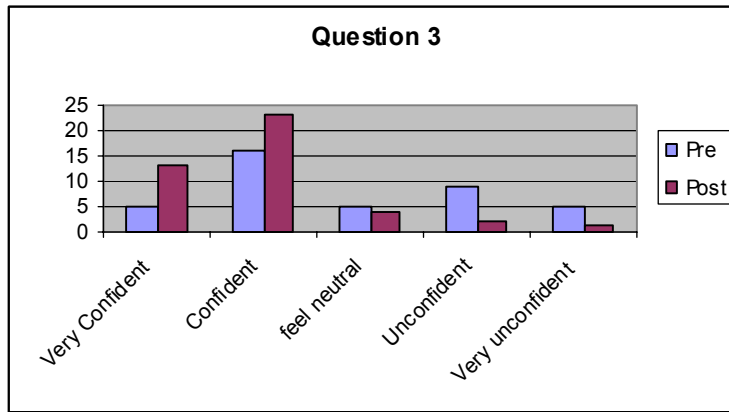
Question1. How confident do you feel to identify the risk factors for Developmental Dysplasia of the hip?



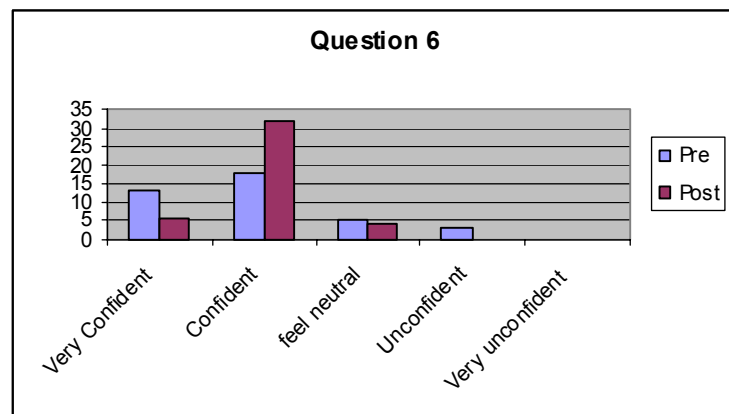
Question 2. How confident do you feel to perform a hip check and identify abnormalities?



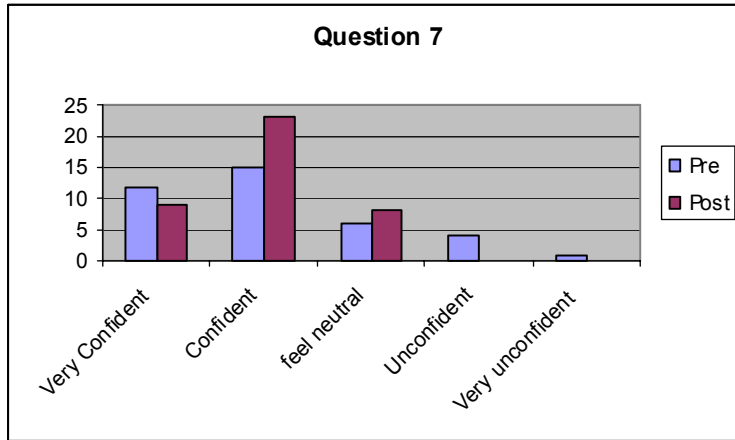
Question 3. How confident do you feel to know appropriate referral for a baby with an abnormal hip check?



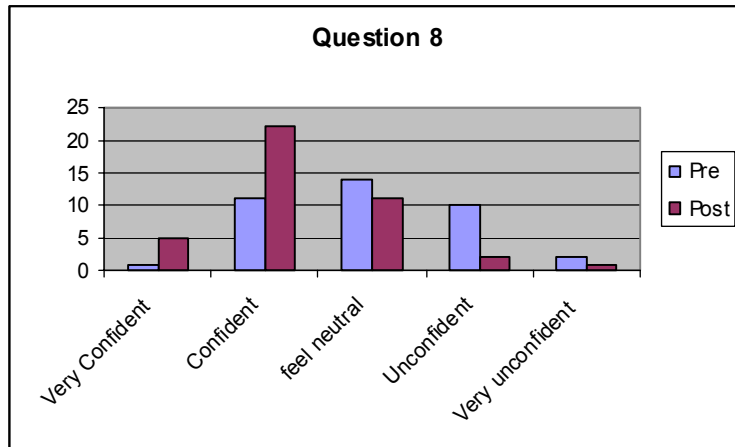
Question 6. Do you feel confident about knowing when a DoCS report should be made?



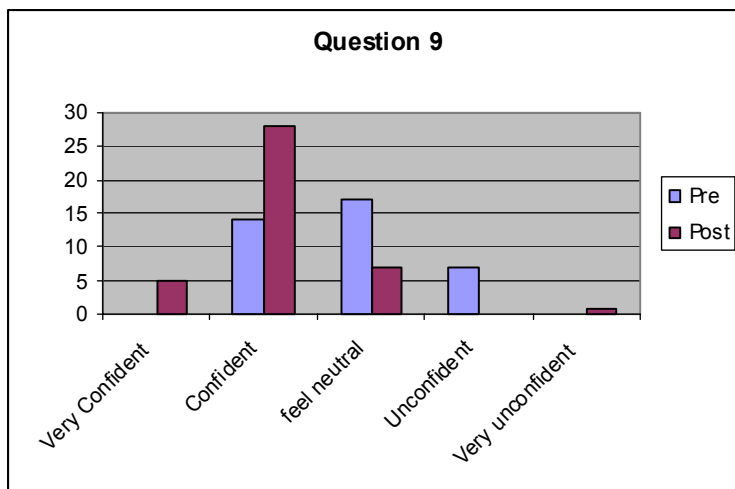
Question 7. Do you feel confident on how to notify DoCS?



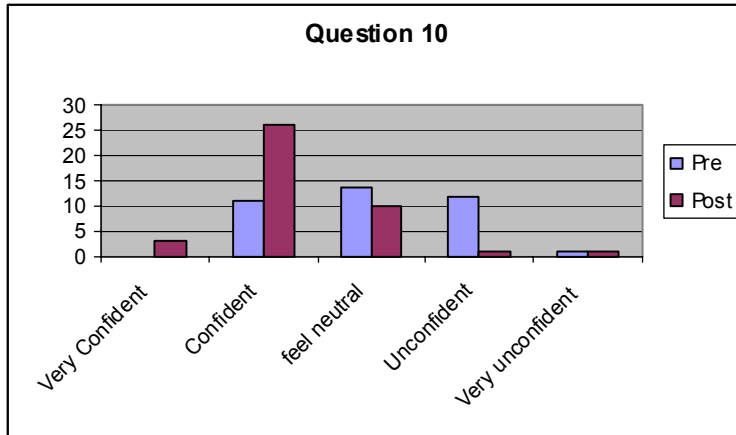
Question 8. Do you understand which cases are Coroners Cases?



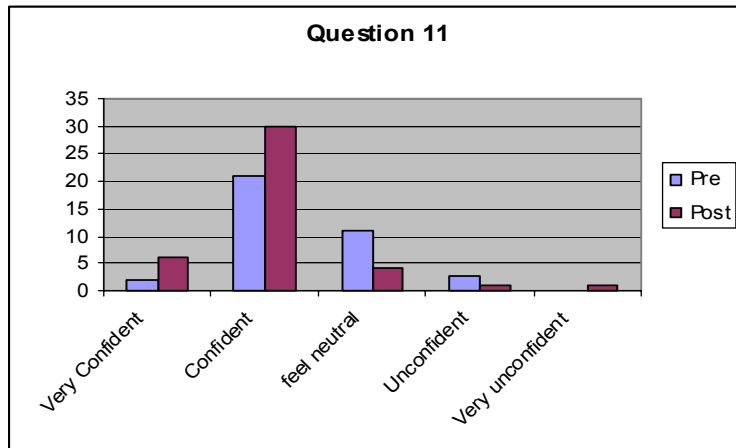
Question 9. How confident do you feel about identifying an infant's signs of stress or avoidance behaviours?



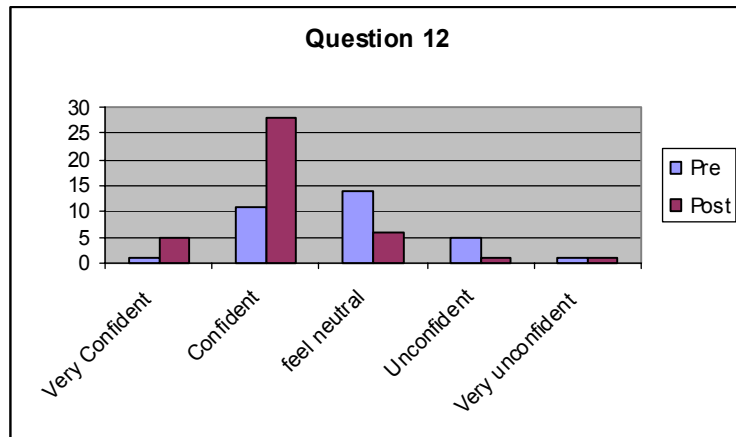
Question 10. How confident do you feel about identifying an infant's self-regulatory or approach behaviours?



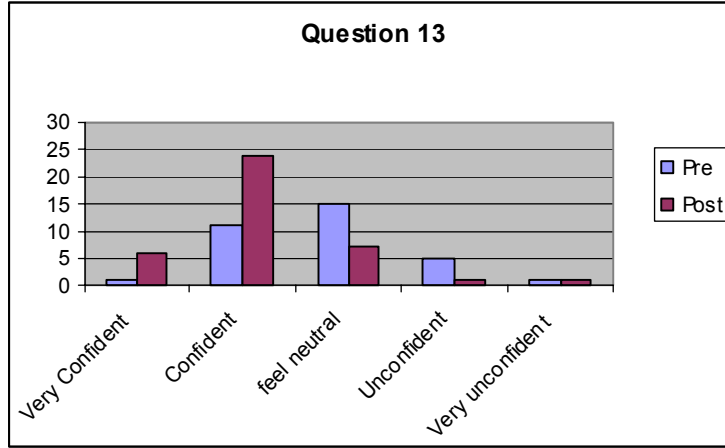
Question 11. How confident do you feel about recognising some strategies that would assist an infant to self settle?



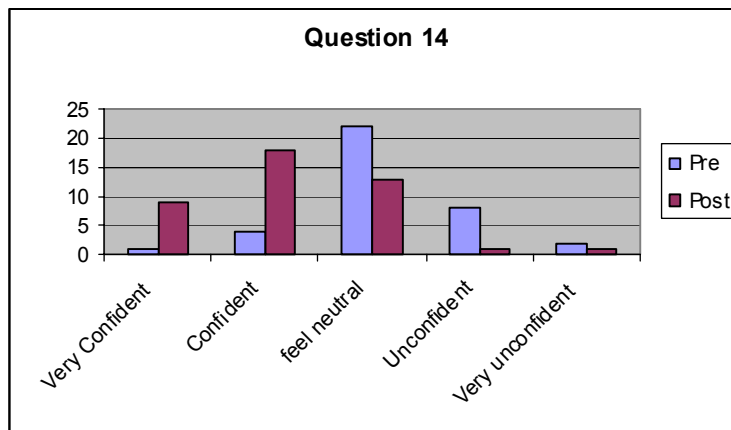
Question 12. How confident are you in understanding the clinical indications of why a baby might be on a specialised infant formula?



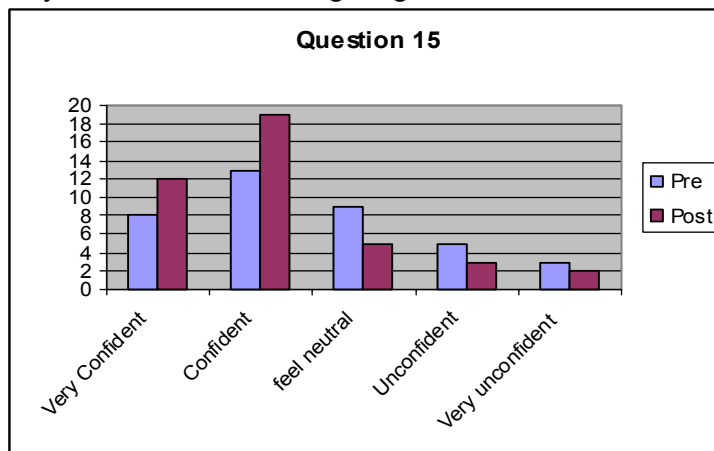
Question 13. How confident are you in understanding the clinical indications of why a baby might be on a specialised infant formula? **Note:** This question was a mistaken repeat of the previous question.



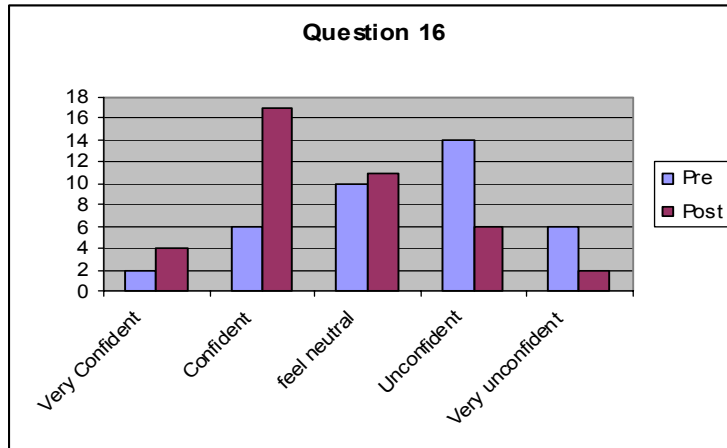
Question 14. How confident are you in your understanding of different ways to increase calories and nutrition in the preterm infant?



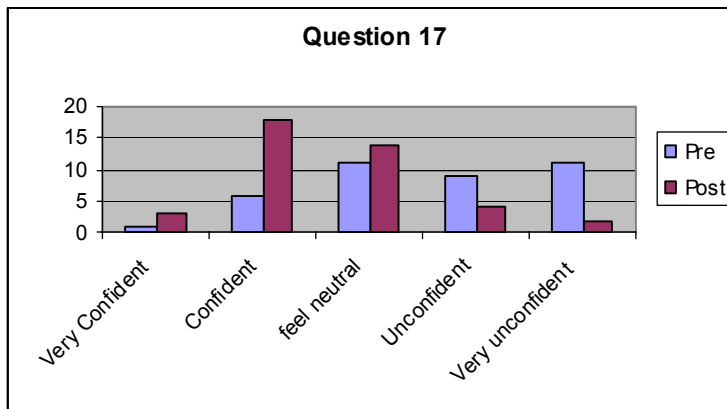
Question 15. Do you feel confident in giving lactation advice to new mothers?



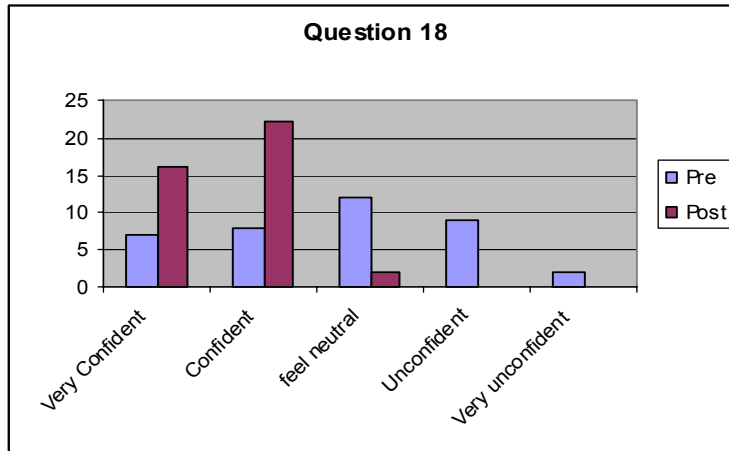
Question 16. How confident are you in assisting a substance abusing mother to breastfeed?



Question 17. How confident do you feel giving information on breastfeeding to a mother on methadone?

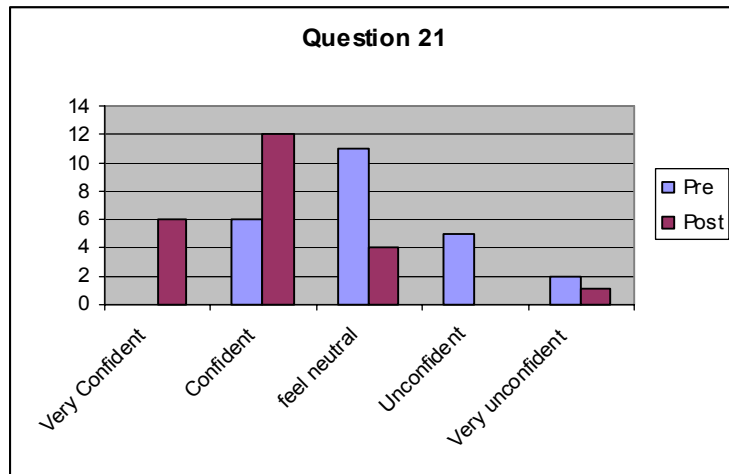


Question 18. How confident are you knowing when to refer a child to a speech pathologist for help with feeding?

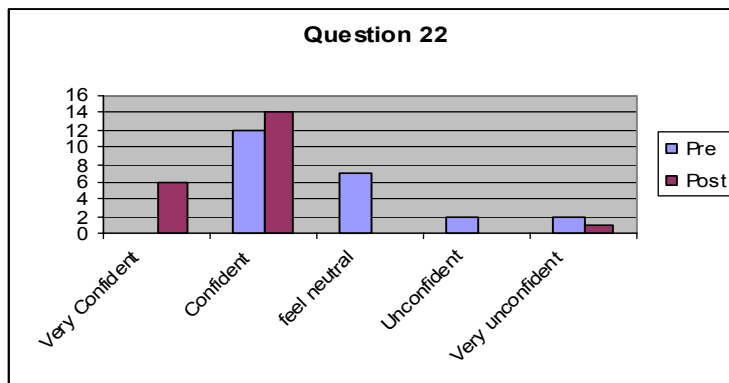


**Group 1 - Neonatal Resuscitation Update (Tuesday morning)**

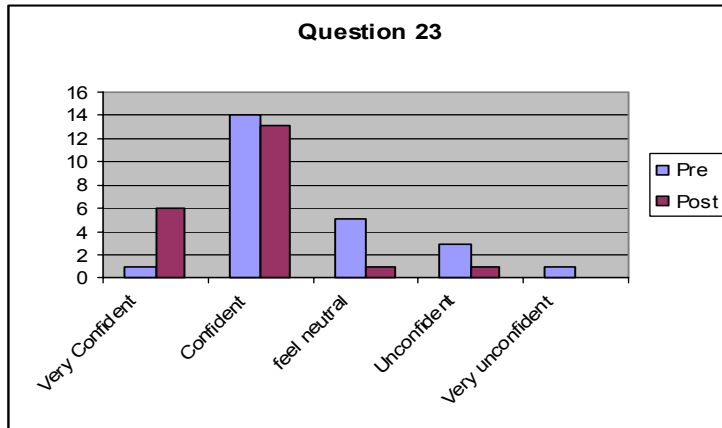
Question 21. How confident are you with your knowledge of the neonatal resuscitation algorithm?



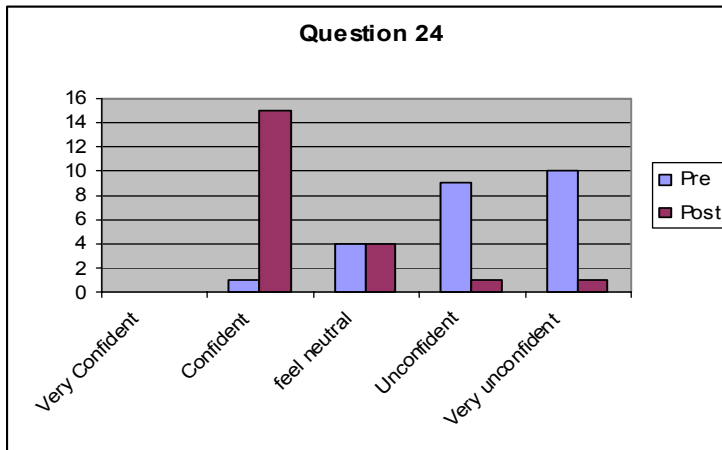
Question 22. How confident do you feel about performing bag & mask ventilation with a neopuff?



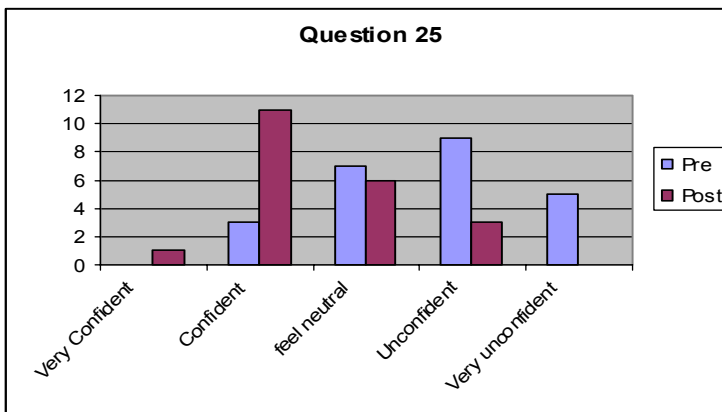
Question 23. How confident do you feel about performing cardiac compressions?



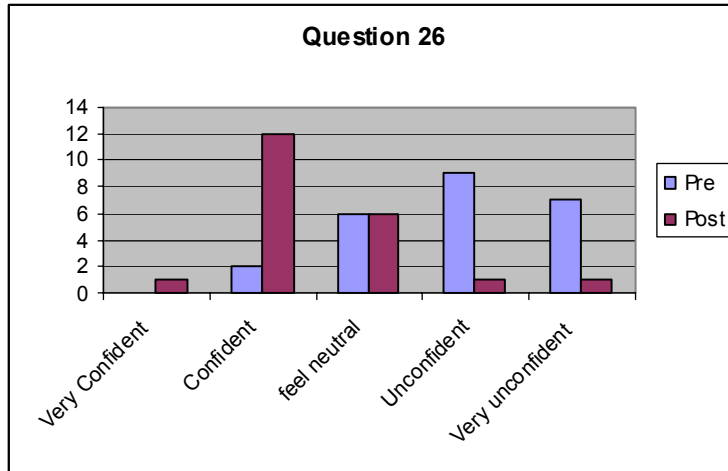
Question 24. How confident are you with inserting or assisting with the insertion of an umbilical venous catheter?



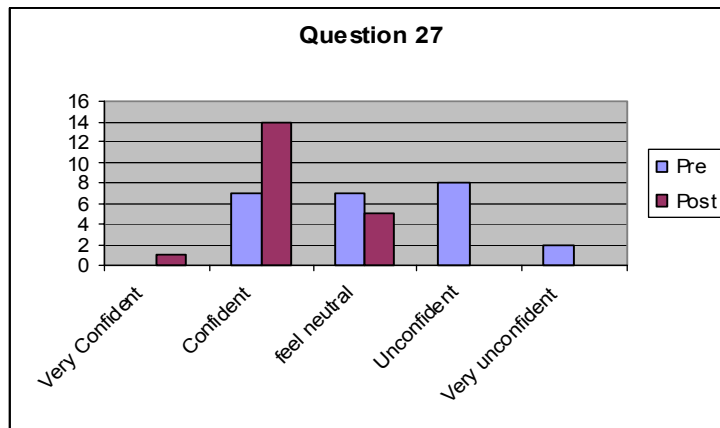
Question 25. How confident are you with intubating or assisting with the intubation of an infant?



Question 26. How confident do you feel in confirming placement of an endotracheal tube?

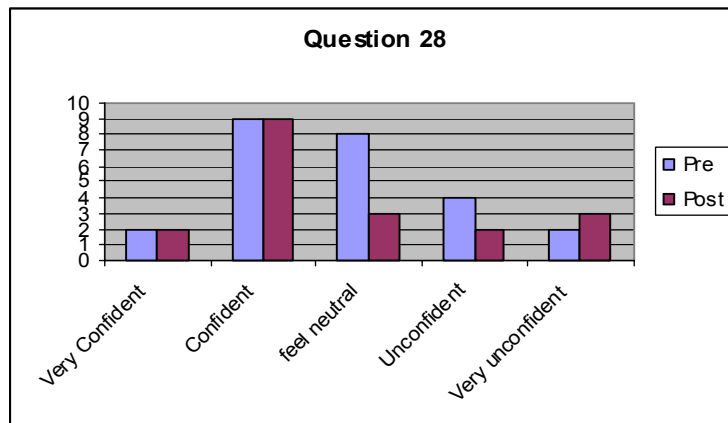


Question 27. How confident do you feel in providing the ongoing care for an infant that has required resuscitation?

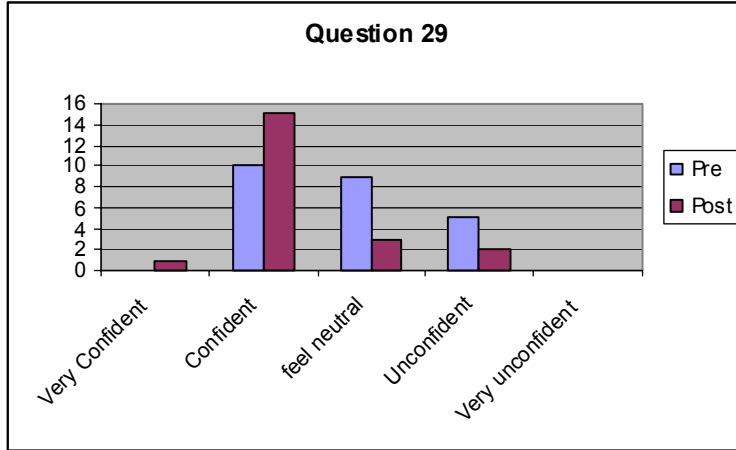


**Group 2 – Allied Health Professionals Workshop (Tuesday morning)**

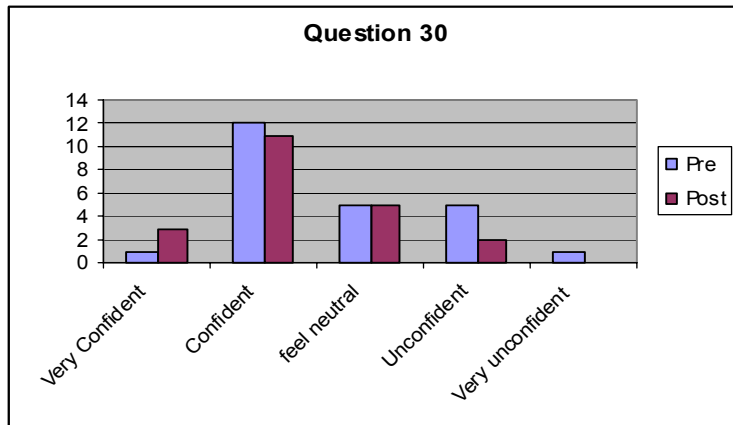
Question 28. How confident do you feel instructing a parent in the use of baby massage?



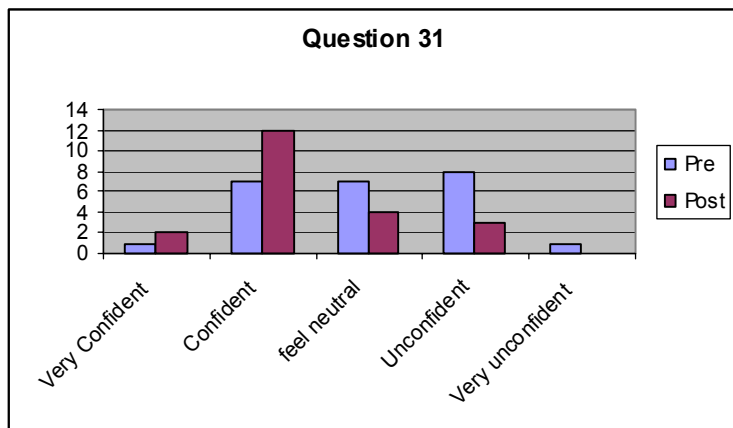
Question 29. How confident do you feel in identifying health concerns that preterm infants are at risk of?



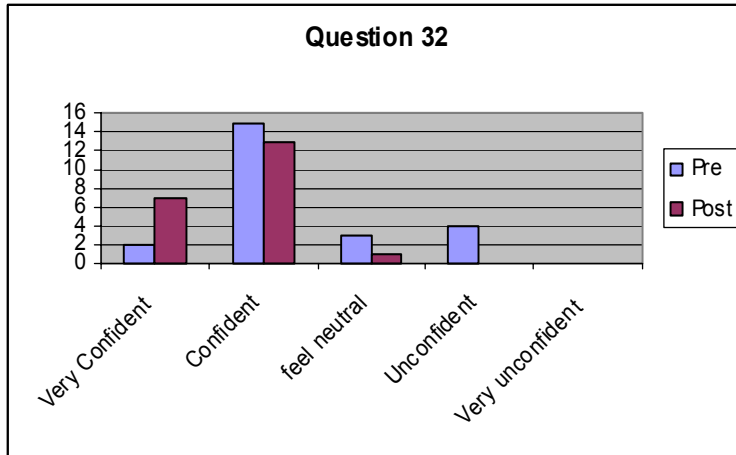
Question 30. How confident do you feel accepting infants transitioning from NICU to your services?



Question 31. How would you rate your knowledge of developmental care issues for premature infants?

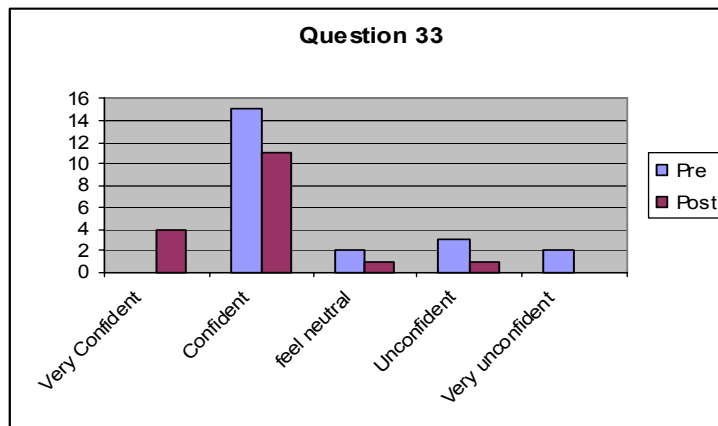


Question 32. How aware are you of other services available in the community and who to contact regarding referrals for infants?

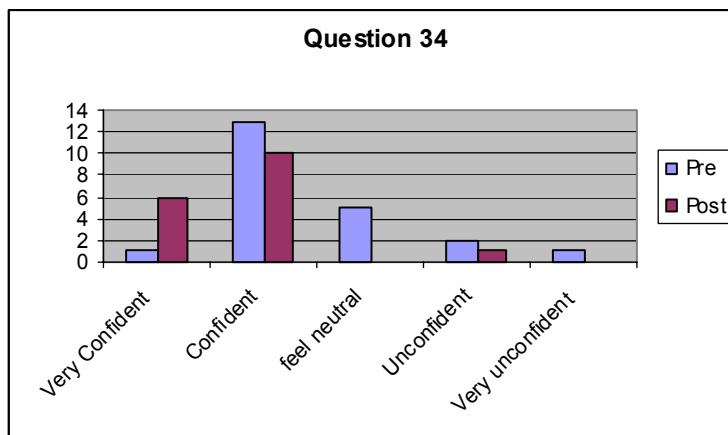


**Group 1 Medical / Nursing & Midwifery staff (Tuesday afternoon)**

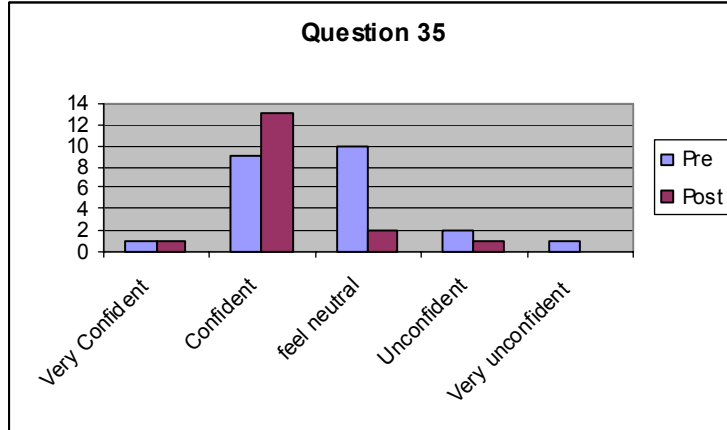
Question 33. How confident are you with the management of an infant with hypoglycaemia?



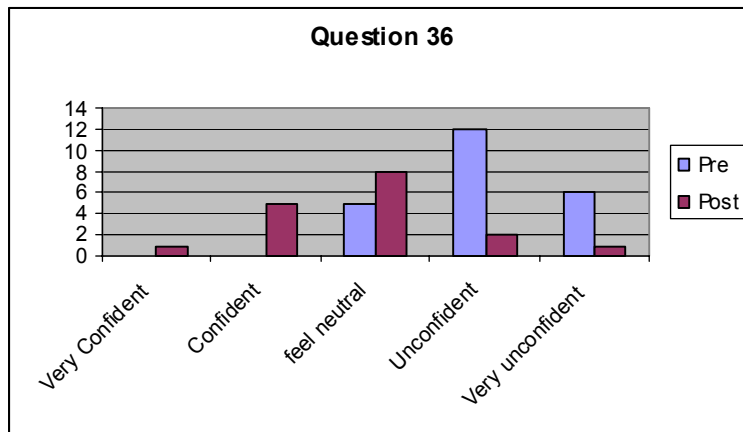
Question 34. How confident are you of your knowledge of which infants may require monitoring of their blood sugar levels following birth?



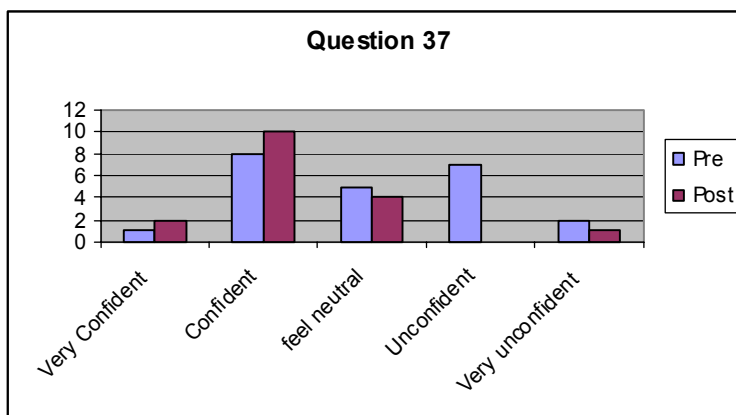
Question 35. How would you rate your knowledge of the diagnosis and management of respiratory distress in the newborn?



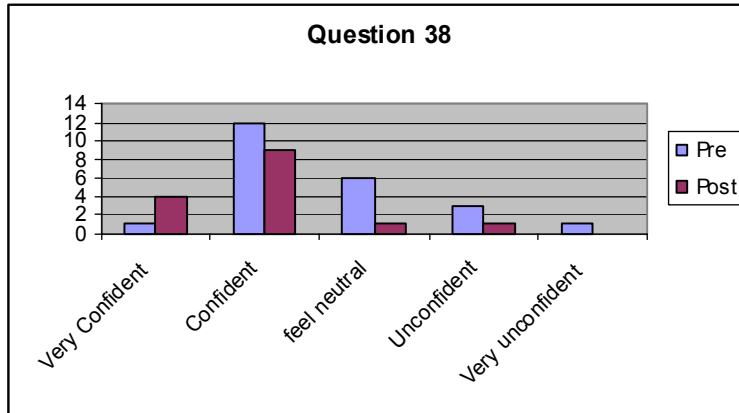
Question 36. How confident do you feel interpreting the chest x-ray of an infant who has signs of respiratory distress?



Question 37. How confident are you with the management of oxygen therapy for newborns?

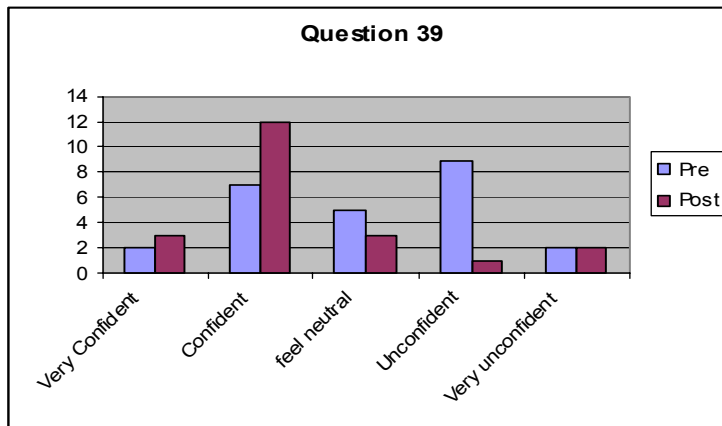


Question 38. How confident do you feel about your knowledge of management of jaundice in the newborn?

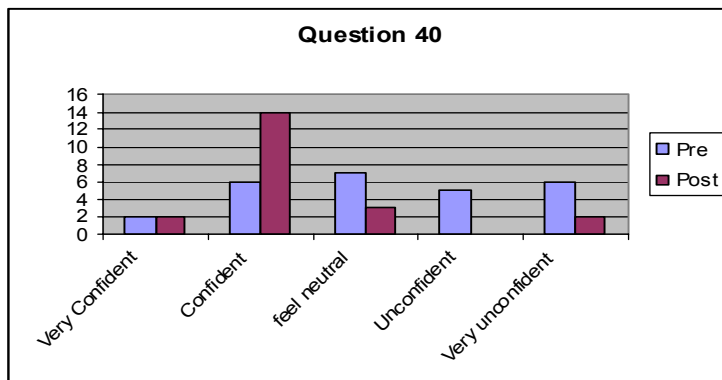


**Group 2 – Nursing & Midwifery staff / Allied Health Professionals (Tuesday afternoon)**

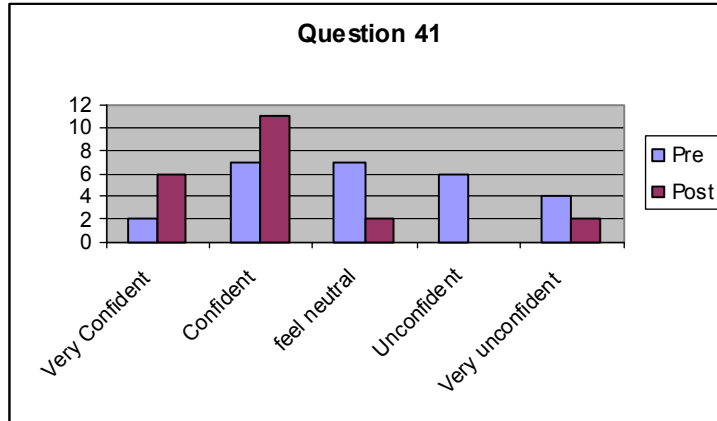
Question 39. How confident do you feel at positioning a preterm infant to facilitate their development?



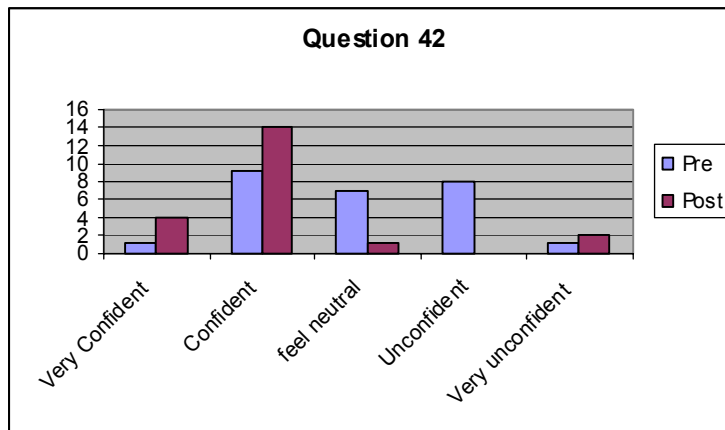
Question 40. How confident do you feel at identifying plagiocephaly and other head shapes?



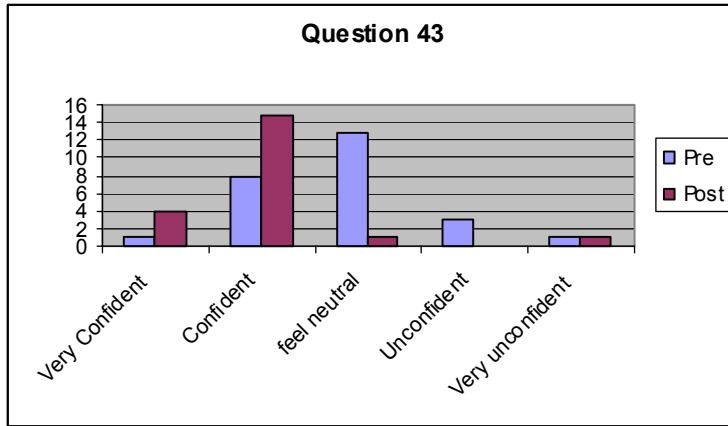
Question 41. How confident do you feel at advising parents on prevention strategies for plagiocephaly?



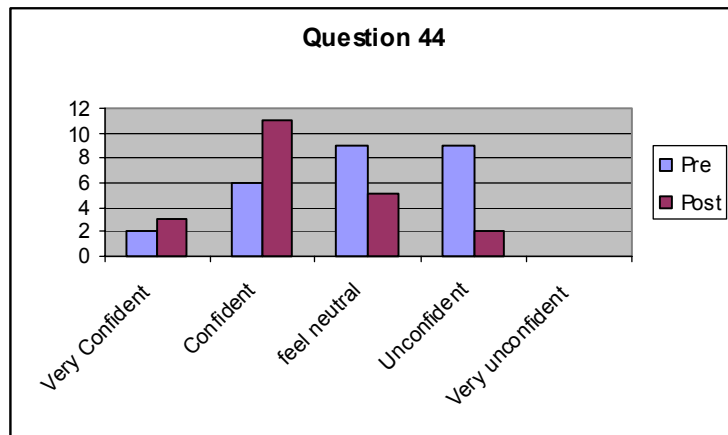
Question 42. How would you rate your ability to assist a parent to recognise and respond to their infant's stress behaviours?



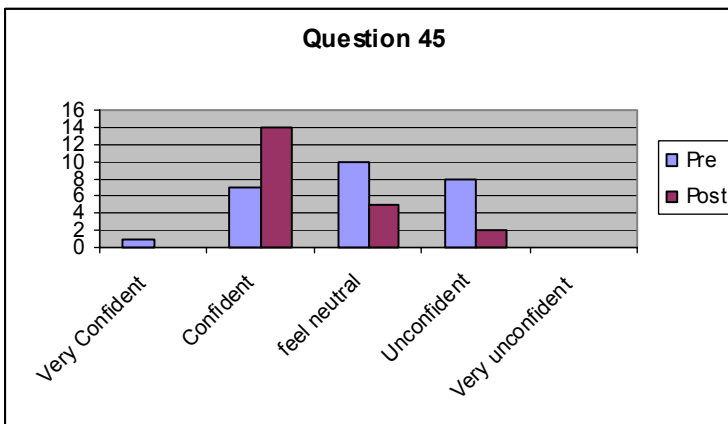
Question 43. How confident would you feel about discussing interaction methods with a parent?



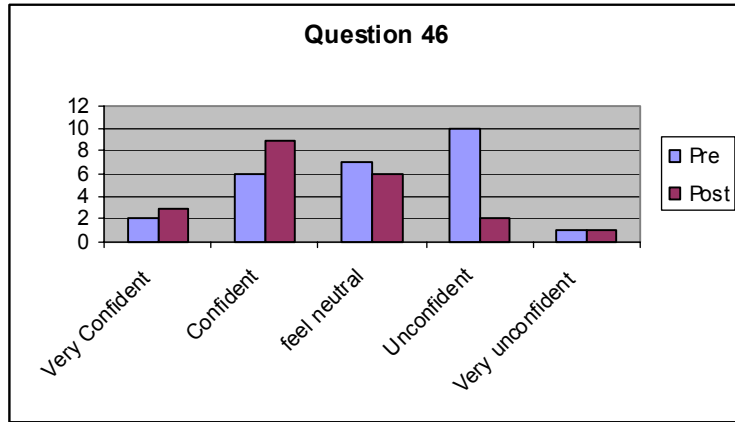
Question 44. How would you rate your knowledge of the different sensory systems that impact on infant development?



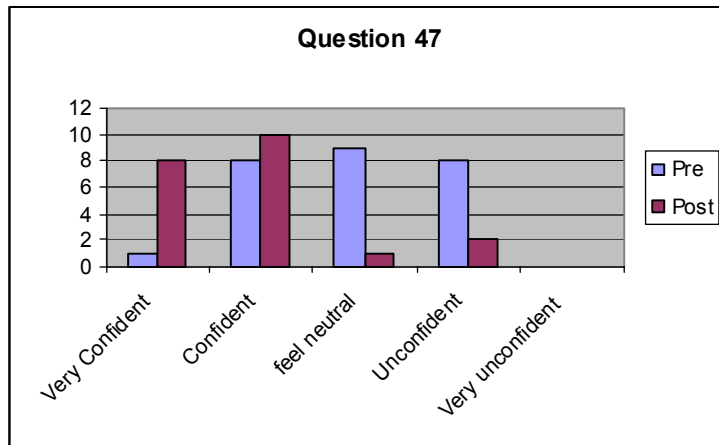
Question 45. Describe how comfortable you feel in dealing with feeding issues of the preterm infant.



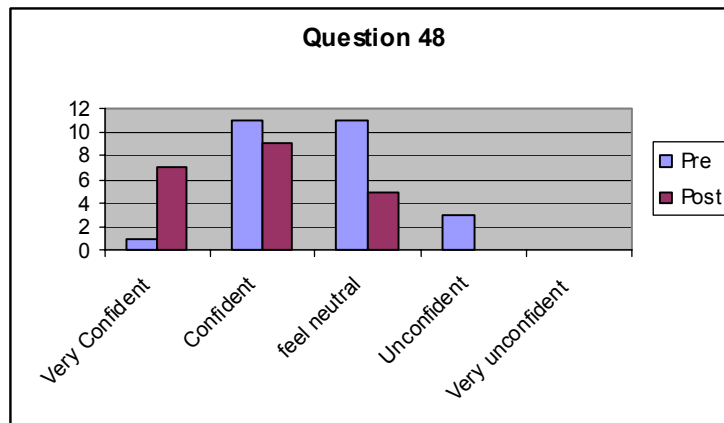
Question 46. How confident are you in assessing adequate growth in the preterm infant?



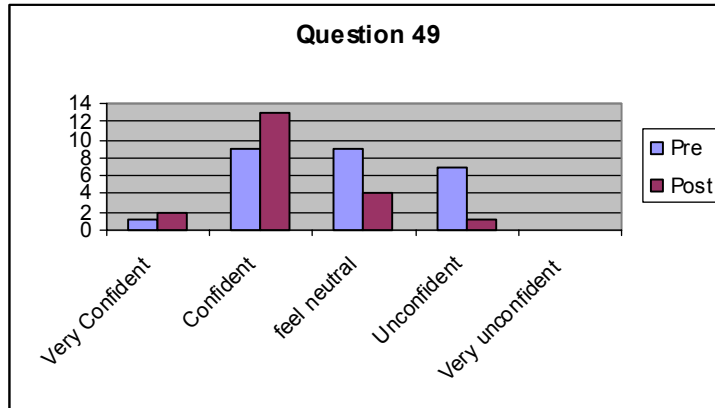
Question 47. How confident do you feel about giving advice to parents about when a preterm infant should start solids?



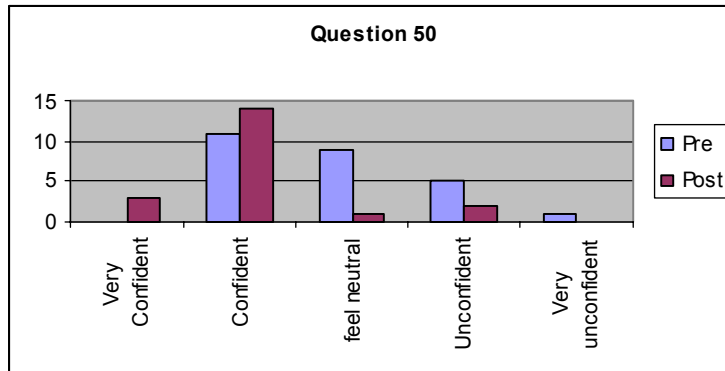
Question 48. Do you have a broad understanding re normal grief processes?



Question 49. Do you have an understanding re possible bereavement issues for parents who have had children in the NICU?



Question 50. Are you familiar with the concept of Family Centered Care?



**Comments from participants.**

Unfortunately when preparing the post evaluation survey the comments section was not added to the survey for this Update. Several participants added written comments at the end of the survey questions and these are documented below.

- Handouts are helpful.
- Paul Craven was a brilliant, easy to understand and supportive speaker. Many thanks Paul for your patience. I thoroughly enjoyed day 2.
- The best neonatal resuscitation I've been to in a long time. Hope to see you back in Tamworth.
- Very helpful learning and revising. Thank you so much.
- Thank you for two great days.
- Very good 1 ½ days – more directed at maternity staff and inexperienced CFHN.

In addition we received a number of emails with positive comments following the Update, including some requesting additional programs be run to enable more staff to attend.

### **Funding**

Funding of \$15,000 to support the three 1 ½ day multidisciplinary programs was made available by the Northern Child Health Network.

### **Next Update**

One further 1 ½ days session has been planned from current funding. The aim was to have 40 participants at each of the three programs to allow for small group work and interaction. The sites for these sessions were chosen to cover as much of HNEAH as possible. The following date has been scheduled with the venue booked:

- *Manning Base Hospital* on Monday 25<sup>th</sup> February and Tuesday 26<sup>th</sup> February 2008. This session is already fully booked. There have been a significant number of enquiries for this Update from interstate (Queensland) and we are uncertain of how the registration program became circulated in Queensland.

### **The Future**

Following review of the evaluations from the Muswellbrook & Tamworth Updates some minor adjustments to the program are being discussed by the outreach education group.

An abstract was submitted for the Perinatal Society of Australia and New Zealand (PSANZ) annual congress being held in April 2008 at the Gold Coast Convention Centre and has been accepted as an oral presentation – for your interest the abstract is attached in Appendix 4.

The Northern Child Health Network has recently approved funding for a further three programs to be held in HNEAH. Initial possible sites under discussion for these future programs are Maitland, Armidale and Moree.

### *North Coast Area Health Service*

We have been approached by Jan Dent Area Child & Family Co-ordinator for the NCHN & NCAHS regarding our availability to present two 'Newborn Services updates' in the NCAHS as she has some funding to support the sessions. Jan's suggested sites for the sessions would be Tweed Hospital and Coff's Harbour Health Campus.

The evaluations for the two workshops held so far have been positive and the Updates have been quickly filled when advertised. We have a number of staff from NCAHS booked for the program at Taree (staff from Port Macquarie & Kempsey) and have also had several staff from Port Macquarie attend the Muswellbrook workshop.

As the NCAHS is part of our referral area and we receive many infant's from this area it would be beneficial if we can accommodate the request from our colleagues. The NCAHS does not contain a tertiary neonatal service and we generally provide this service for them. We have in the past few years delivered 'Advanced resuscitation of the newborn' days in Lismore, Coffs Harbour, Grafton & Port Macquarie which have all been well attended with good evaluations, as well as nursing education sessions at Port Macquarie Base Hospital. The team presenting the Update are keen to continue to provide education sessions that are relevant and useful for the staff caring for newborn infants and during their transition to community services and are prepared to travel to NCAHS.

We are aware the distance involved will provide some logistic problems, and we may need to review the program that we are currently presenting to make it more feasible to present.

We have received support from Pat Marks Director KGNS / JHCH to proceed with the initial planning for these two proposed venues.

### **Conclusion**

The first two of three multidisciplinary 'Newborn Services Updates' have been held at Muswellbrook Hospital (August 2007) and Tamworth Rural Referral Hospital (November 2007). The programs have been well attended by a mix of medical staff, allied health staff, midwives and Child and Family Health Nurses. The program has been well accepted and had positive evaluations. The pre and post evaluations of participants indicate an improvement in confidence and / or knowledge by attending the programs.

**APPENDIX 1 - Registration List for Newborn Services Update**

MIDWIFERY	C. & F. HEALTH	ALLIED HEALTH	OTHER
BULL Glenysie (Tamworth)	ARMSTRONG Debbie (Bingara/Warialda)	ANTEES Pollyemma (Dietician Moree)	BABEKUHL Sandra (Project Officer – Paediatrics – NCHN Wingham)
DAWSON Maureen (Tamworth)	BRADSHAW Sue (Tamworth)	BARNES Marissa (Tamworth, Psychologist)	WILES, Catherine (Paediatrician Armidale) (Monday and Monday evening only)
EDWARDS Donna (Muswellbrook)		BLANCH Katherine (Armidale Sp.Path)	
ELLIOTT Vicki (Glen Innes)	FITZGERALD Leanne (Inverell)		
GILKES Glenda (Tamworth)		CAPELL Katrina (Dietician Tamworth)	
		CLUNAS Penny (Tamworth Sp.Path)	
HENDERSON Kim (Glen Innes)		DOHERTY Claire (Physio Tamworth)	
HUGHES Rebecca (Tamworth)	HURLEY June (Gunnedah - AHW)	GRIFFITHS Marguerite (Dietician Tamworth)	
		HARRIS Deanne (Dietician Tamworth)	
	LITTLEJOHNS Jacqui (Tamworth)	JAMIESON Rachel (Dietician Tamworth)	
		KREAMER Ruth (Tamworth S.Work)	
McBRIDE Lynn (Tamworth)			
McLEOD Kim (Inverell)	McCARTHY Elizabeth (Glen Innes)		
	MURPHY Fiona (Mungindi)	McINERNEY Regina (Tamworth S. Work)	
PITMAN Libby (Inverell)		PEACE Jodie (Dietician Tamworth)	
PROCTER Robyn (Tamworth)		ROBERTS Anne (Tamworth S.Work)	
	RINDO Lucy (Tamworth)		
SEYMOUR Tania (Tamworth)		SAVAGE Libby (Gunnedah Sp.Path)	
	SHIRLAW Angela (Armidale)		
	SMITH Denise (Tamworth)	THOMPSON Rebecca (Tamworth O.T)	
THRIFT Justine (Tamworth)	SOMERVILLE Julie (Tamworth Mon. only)		
		WAKELY Luke (Tamworth – Physio)	
VAN DE WEGEN Kim (Moree)		WALKER Clare (Inverell Sp. Path.)	
WALSH Melissa (Muswellbrook)	WATSON Kylie (Tamworth)		
WEBB Joanne (Inverell)		YEO Bernadette (Tamworth Sp.Path.)	
<b>(16)</b>	<b>(12)</b>		
<b>PRIVATE HOSPITAL MIDWIVES</b>			
BRITTEN Rosemary		<b>(18)</b>	<b>(2)</b>
GALLAGHER Margaret			
KINGHAM Jane			
MILLER Elizabeth			
THOMSON Lee			
<b>(6)</b>			

**TOTAL = 54 PLUS Presenters and Robin Skewes**

**APPENDIX 2:**

**Attendance List  
Monday 26<sup>th</sup> November 2007  
Neonatal Resuscitation Update  
1800 to 2100 Hours**

NAME	
Agostino, Jason	JMO
Allan, Janet	Nurse Manager Manilla
Ansari, Andrew	
Arefeen, Samaul	
Clark, Mary	
Eslick, Adam	JMO
Fisher, Louise	GP Bingara
Foley, Cathy	
Geddes, Fiona	CFHN
Gosson, Sharon	
Holding, Chris	
Kelly, Janey	
Oberg, Kylie	
Penglaze, Regan	
Rindo, Lucy	
Rosenfeld, Emma	JMO
Ryan, Maria	
Skewes, Robin	Clinical Midwife Consultant (northern)
Sonerson, Terri	
Thompson, Jenni	CNE Emergency Dept Tamworth
Turner, Melba	CFHN Gunnadah
Wiles, Catherine	Paediatrician Armidale
Worboys, Elizabeth	
Gow, Judith	

## APPENDIX 3

**Program****Monday 26<sup>th</sup> November 2007****12.30pm – Registration****SESSION ONE****Combined Doctors, Midwives, RNs & Allied Health professionals  
Welcome & Introductions****1pm****1.15pm***Rotate between 6 workstations*

- Hip checks & management
- Formula's & boosting calories
- Overstimulation & infant stress
- Difficulties with breast & bottle feeding
- Lactation & increasing milk supply
- DOCs notification & Coroners case

**5.00pm****Close****Tuesday 27<sup>th</sup> November 2007****SESSION TWO – Two Groups****Group 1:****9am****Doctors, Midwives, & RN's  
Neonatal Resuscitation Update****11am****11.30am****MORNING TEA**

Neonatal resuscitation Update (continued)

**Group 2:****9am****Allied Health Professionals Workshop  
Multidisciplinary approach to complex cases****11am****11.30am****MORNING TEA**

Transition from hospital to community

**1.30pm****LUNCH****SESSION THREE – Two Groups****2pm to 4.30pm****Group 1:****Doctors, Midwives & RN's**

- Hypoglycaemia
- Management of RDS / Pneumothorax
- Jaundice

**Group 2:****Midwives, RNs & Allied Health Professionals**

- Positioning & head shape
- Infant parent interaction & stimulation
- Using thickener & trouble shooting later feeding
- Growth charts & correcting for preterm infants
- Bereavement issues & death of an infant

**4.30pm****Evaluation & Close**

## **APPENDIX 4**

### **Meeting the education needs of rural clinicians: a multi-disciplinary newborn services program**

Kinross, Denise<sup>1</sup>, Craven, Paul<sup>1</sup>, Day, Rosie<sup>1</sup>, Drelincourt, Brooke<sup>1</sup>, Duncan, Kylie<sup>1</sup>, Orr, Amanda<sup>1</sup>, Stirling, Amber-Jane<sup>1</sup>, Ward, Martine<sup>1</sup>, Warren, Brodie<sup>1</sup>, Wooderson, Susanne<sup>1</sup> & WongSee, Denise<sup>1</sup>

<sup>1</sup>John Hunter Children's Hospital  
Locked Bag 1  
Newcastle Region Mail Centre  
NSW 2310

Email: [denise.kinross@hnhealth.nsw.gov.au](mailto:denise.kinross@hnhealth.nsw.gov.au)

#### **Background**

John Hunter NICU developed an outreach education program for those involved in the care of newborn infants in the Hunter New England Health region of NSW. The program included information on the multidisciplinary care of complex infants and their transition from a tertiary unit to the community setting

#### **Method**

The education program was developed by a multi-disciplinary team of medical and nursing staff, with representatives from social work, physiotherapy, occupational therapy, speech pathology, and dietetics. The planning team identified complex issues commonly requiring local support by services with limited experience and opportunity for training

The interactive program ran over 2 days and included concurrent sessions for allied health, nursing and medical professionals. The sessions were small group, practical, non didactic, and relevant with teaching methods including group work, discussion, role play and video demonstrations.

Three hospitals, geographically central were selected as the sites to enable participants from each service across the area to attend.

#### **Results**

A pre and post evaluation survey was used to identify if the program achieved its aim of increasing participants' knowledge and confidence post course. The results of the survey will be presented.

The first two courses attracted health professionals from 25 hospital and community organisations. 100 participants attended the initial workshops, comprised of 23% Allied Health, 53% midwives, 11% Child & Family Health Nurses, 6% medical officers, and 7% others.

#### **Conclusion**

The initial program was well accepted, with the pre and post evaluations indicating an improvement in confidence and / or knowledge of participants.

## Newborn Services Update

An invitation is extended to all health professionals that work with newborns to participate in a multidisciplinary update of issues related to their care

### Program

#### **Monday 26<sup>th</sup> November 2007**

Banksia / Boronia Room CHC Johnston House  
12.30pm – Registration and arrival tea/coffee

#### **SESSION ONE**

**Combined Doctors, midwives, RNs & Allied Health professionals**

**1pm Welcome & Introductions**

**1.15pm Rotate between 7 workstations**

- Hip checks & management
- Formula's & boosting calories
- Overstimulation & infant stress
- Identifying feeding problems
- Lactation & increasing milk supply
- DOCs notification & Coroners case
- Newborn Services & your nursery

**5.00pm Close**

#### **Tuesday 27<sup>th</sup> November 2007**

Seminar Room UDRH

#### **SESSION TWO – Two Groups**

**9am to 1.30pm**

**Group 1: Doctors, midwives, & RN's**

- Neonatal Resuscitation Update

**Group 2: Allied Health Professionals Workshop**

**9am – 11am** Multidisciplinary approach to complex cases

**11.30am** Transition from hospital to community

**1.30pm LUNCH**

#### **SESSION THREE – Two Groups**

**2.15pm to 4.30pm**

**Group 1: Doctors & midwives**

- Hypoglycaemia
- Management of RDS / Pneumothorax
- Jaundice

**Group 2: Midwives, RNs & Allied Health Professionals**

- Positioning & head shape
- Infant parent interaction & stimulation
- Breast & bottle feeding techniques
- Growth charts & correcting for preterm infants
- Bereavement issues & death of an infant

**4.30pm Evaluation & Close**

**Date: 26<sup>th</sup> & 27<sup>th</sup> November 2007**

**Tamworth Rural Referral Hospital**

**Time: Monday 12.30pm to 5pm**

**Tuesday 9am to 5pm**

**For enquiries please contact –**

**Robin Skewes**

**Clinical Midwife Consultant  
Northern Sector HNEAH**

**Phone: (02) 6767 7318 Mobile: 0427655327  
or**

**Denise Kinross CNC Newborn Services**

**Phone: (02) 4921 3597**

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Organisation \_\_\_\_\_

Position \_\_\_\_\_

Please forward completed registration form to:

**Robin Skewes**

**Clinical Midwife Consultant**

**Locked Bag 9783**

**TAMWORTH NEMSC NSW 2348**

**FAX: (02) 6761 2395**

**There will be no charge for attendance supported by  
the Northern Child Health Network**

Maximum number of participants 40

Closing date for applications: Friday 9<sup>th</sup> November 2007