Children's Cardiac Nurse Specialists Freeman Hospital, Newcastle

Debbie Lawson
Debs Richardson
Jacqui Laydon

Freeman Hospital

Debs Richardson 0191 2448271



Debbie Lawson 0191 2448272



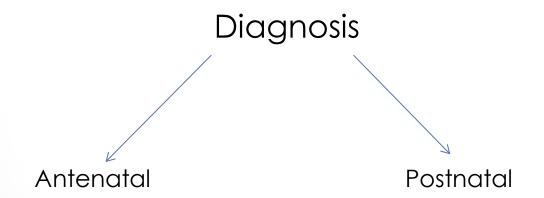
Jacqui Laydon 0191 2139184



Secretary/Voicemail; 0191 2137344

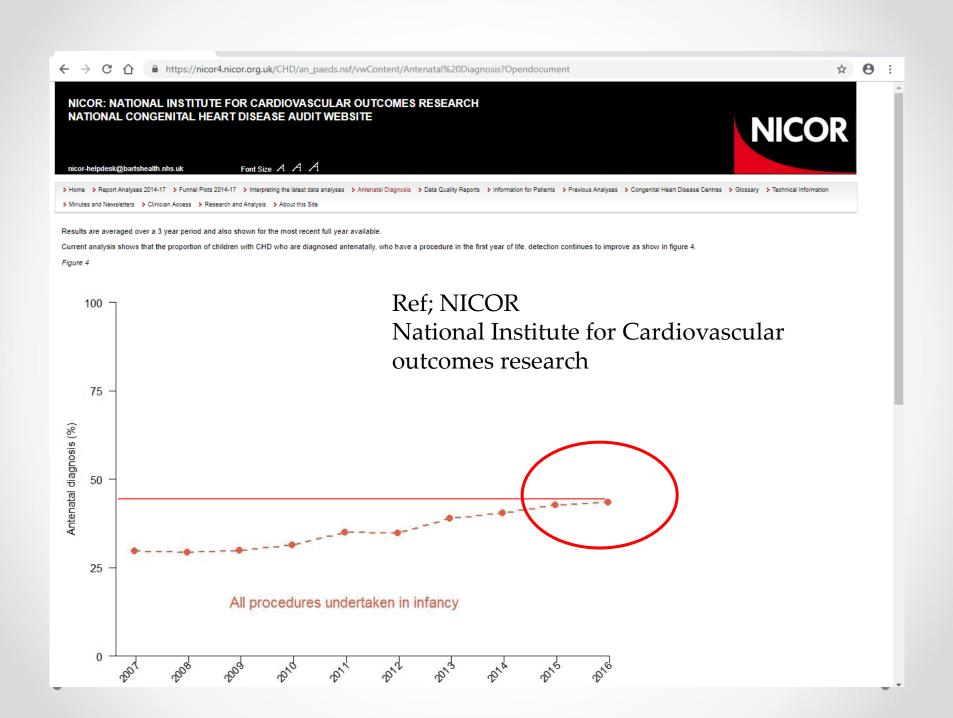
Email; nuth.CCNS@nhs.net

Congenital heart disease (CHD) journey



Antenatal Suspicion of CHD?

- Detection can be as early as 13 weeks
- 20 week anomaly scan in local hospital
- Suspicion referral to Fetal Medicine Unit, RVI, Newcastle.



Correctable or palliative

Correctable

- VSD
- Fallots

Palliative

Hypo plastic left heart – single ventricle

Choices

Termination, surgery, comfort care

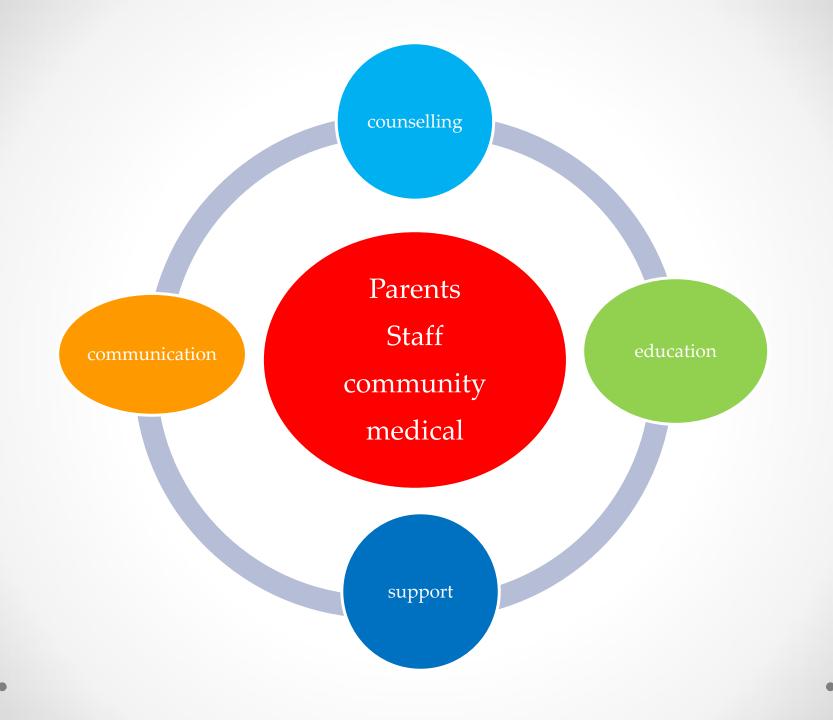
Role of Fetal cardiac nurse

Education

- Diagnosis
- Lifestyle
- Treatment options

Supportive

- Counsellor
- Information to empower parents informed consent





British Heart Foundation www.bhf.org.uk

The impact

- Relationship
- Long term hospitalisation
- Multiple hospital visits / clinics /admissions
- Financial implications
- Family support?
- Investigations/Surgery
- Family/siblings
- Deterioration
- New normal
- Death

Parents and families

- Shock
- Grief
- Anxiety and worry
- Isolation
- Guilt
- Confusion / lack of understanding

Postnatal Diagnosis

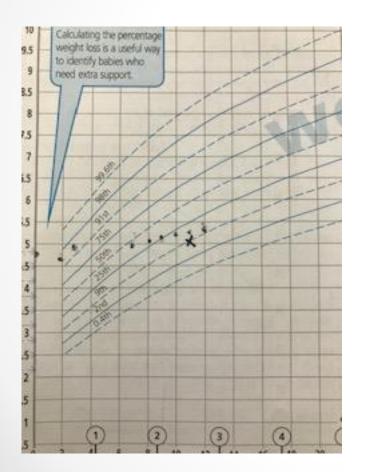
Hospital post birth

- Cyanosis ECHO
- Weak femoral pulses -ECHO
- Murmur follow up clinic

Community

- Critically unwell
- Faltering Growth

Faltering Growth



Date	Age	Wt (kg)	Wt (lb)	Other Measureme
1.5-19	13/7	4.56	1011	٥.
7.5.19	19/7	4.62	1016	202
M. 5.19	31/52	4.78	1016	703
7.8.19	1/52	4-96	10.6	5
13.6.19	8	5.035	.11-	107
19.6.19	1/52	5.08	11-3	
26.6.19	1 - 1	5.14	11.4	
3-7-19	1/52	5.18	11.0	1_
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Following diagnosis

- Shock
- Grief
- Anxiety and worry
- Guilt
- Confusion/lack of understanding
- Uncertainty
- Relief

Role of CCNS is to support, educate and collaboration

What happens next

Hospital stay

- Critically unwell and in PICU
- Cardiac surgery imminent

Discharged home

- Collaboration with community services essential HV, CCN, Dieticians and local hospitals.
- Winter palivizumab

Discharging families

Corrective surgery

- Liaise with HV and CCN teams
- Post op follow up call/clinic visit

Complex Cardiac, health or social needs

- Discharge planning meetings
- Home monitoring programme
- Emergency health care plan (EHCP)
- Education and CPR training
- Palliative care

Anticipated emergency(ies)

Sudden Collapse.

Respiratory infection or intercurrant illness

Low oxygen saturations

Vomiting/Diarrhoea

What to do

Dial 999

Full Cardiopulmonary resuscitation should be given.

Maintain OXYGEN SATURATIONS 75-85%

Full Ventilation as appropriate and ECMO

Please contact FREEMAN CARDIOLOGY TEAM.

Parents are trained in CPR

has open access to the Paediatric unit at Carlisle Hospital. should be assessed and discussed with a senior Paediatrician promptly. PLEASE INFORM THE FREEMAN HOSPITAL OF ADMISSION

If oxygen saturation below 70% consistently for more than 5-10 minutes please administer oxygen to keep saturations between 70-85% and inform FREEMAN CARDIOLOGY TEAM

If Vomiting or Diarrhoea:

S SHUNT DEPENDENT FOR PULMONARY BLOOD FLOW

Risk of Shunt blockage and circulatory collapse if she becomes dehydrated for a prolonged period.

Please maintain at least 120mls/kg/day of fluid/milk to prevent shunt blockage

If a DNACPR decision has been agreed, complete the regional DNACPR document

EHCP - Who?

- All Norwood, BT Shunt and Ductal Stent babies.
- Life threatening Arrthymia
- Cardiomyopathies where heart function is poor and at risk of sudden collapse
- Complex congenital and single ventricle circulations
- Ventilated and children with a tracheostomy
- Warfarin
- Palliation

Life long Support

Parental support

- Telephone and answering service
- Team email address
- Letters of support; school, DLA and housing
- Referral to other services

Community Support

- Education and training
- Collaboration

The good news

- cardiac centre with excellent outcomes
- 3 congenital cardiac surgeons
- Heart failure / transplant centre
- 'can do' attitude
- Professional practical and emotional support
 - o CCNS, social workers, psychology team, nursing, medical.

Nutrition nurse specialist

Early intervention

 to prevent exacerbation of problems and repeated hospital admission

Regular monitoring

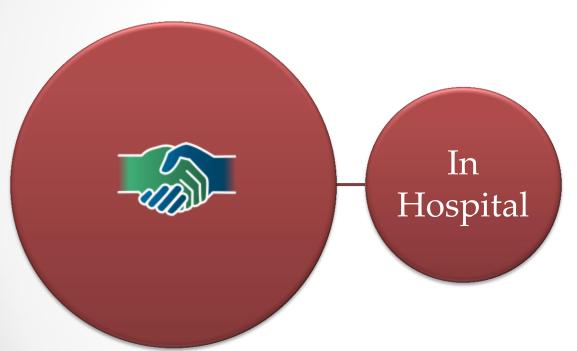
 complex cases - especially those requiring more than one surgery

Support, advice and education

 To families and other professionals involved in care of the family

Facilitating early discharge

How is this achieved?



- Weekly ward rounds
- Attendance Gastro MDT's GNCH site
- Liaison between of all teams
- Competencies
- Streamlining gastrostomy surgery FRH site
- Telephone contact (Massive!)

Outreach?



Children's cardiac nurse specialist team

