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PAEDIATRIC TRACHEOSTOMY CASE STUDY NG

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A BIT OF HISTORY....

DIAGNOSES & PROBLEMS Transient tachypnoea of newborn. Hypocalcaemia. Hypoglycaemia. Presumed diabetic embryopathy with VACTERL features. Truncus arteriosus - type A3. Unrestricted membranous VSD and moderate, unrestricted ASD.

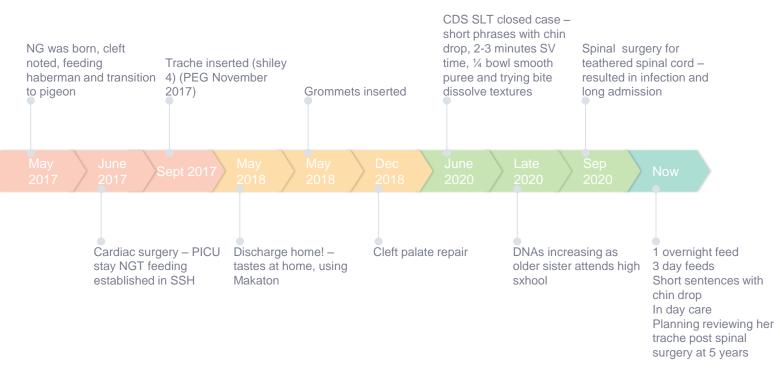
CONGENITAL ANOMALIES

Truncus arteriosus. Scoliosis. Cleft hard palate NOS. short right femur. Talipes NOS, asymmetric. multiple osseus abnormalities. wide spaced nipples.

Spinal cord malformations. Hip: Congenital Dislocation of hip: unilateral.



TIMELINE



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	 Multiple congenital abnormalities thought to be secondary to diabetic embryopathy & VACTE RL association 			
	2. Congenital cardiac disease:			
	 Pulmonary atresia with tetralogy of Fallot and confluent pulmonary arteries S/P Modified BT shunt innominate artery to RPA2017 			
	 S/P Ligation of PDA S/P Complete repair with closure of the VSD and PFO RV to PA 			
	conduit			
	Most recent echo November 2019, yearly follow up R ight multicystic dysplastic kidney:			
	Yearly monitoring of blood pressure and proteinuria Multilevel airway abnormalities, tracheobronchomalacia			
	Tracheostom y September 2017, no oxygen requirement			
	 C left of soft and hard palate 			
	Repaired December 2018			
	 Nissen fundoplication & gastrostom y 			
	due to confirm ed aspiration			
	7. Multiple orthopaedic issues			
	Tethered spine Club fast (restad with Respectti technique)			
	Club feet (treated with Ponsetti technique) Markadu shartanad jicht famus and jicht his displacia			
	 Markedly shortened right fem ur and right hip dysplasia Congenital Hemivertebra T12 with associated spinal deformity & 			
	significant hypokyphosis - plan for hemivertebrectomy and short			
	segment fusion in near future 8. Right-sided hemihypertrophy			
	 Sensorineural hearing loss - BAHA device 			
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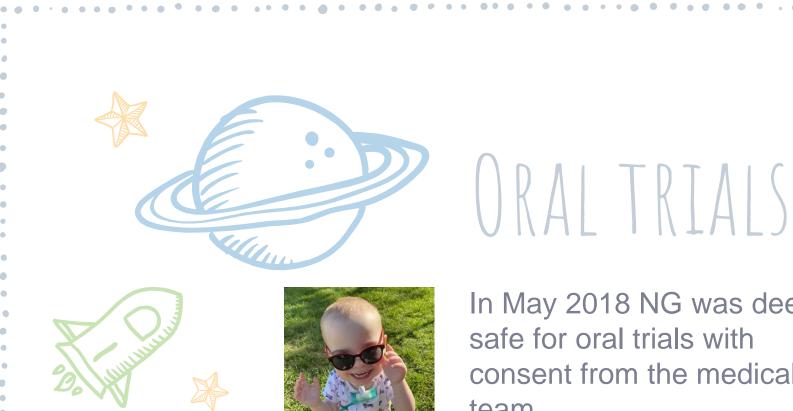






HOME CARES

- NG had frequent suctioning both oral and tracheal
- Swedish nose for humidification
- Continuous feed overnight and 4 bolus feeds



In May 2018 NG was deemed safe for oral trials with consent from the medical team.

FEEDING ASSESSMENT

Assessed and consent from team

Assessed while in hospital for oral trials and discharged home on smooth puree with consent to move forward



PRE FEEDING STRATEGIES

- Upright in a supported seating system
- Suction before trials and messy play
- HME worn for trials and play to protect airway
- Careful observation throughout pay attention to NG's cues
- No SV for subglottal pressure
- Keep upright post meals
- Winded and suctioned post



Messy play

NG loved splashing food and engaging with wet foods.



Tasting and utensils

NG was happy to put things in her mouth and tended to overstuff.

She was happy to lick foods and family began giving her ice creams.

Chew and spit

NG had a block of SOS style therapy – loved the 'reject' bowl!

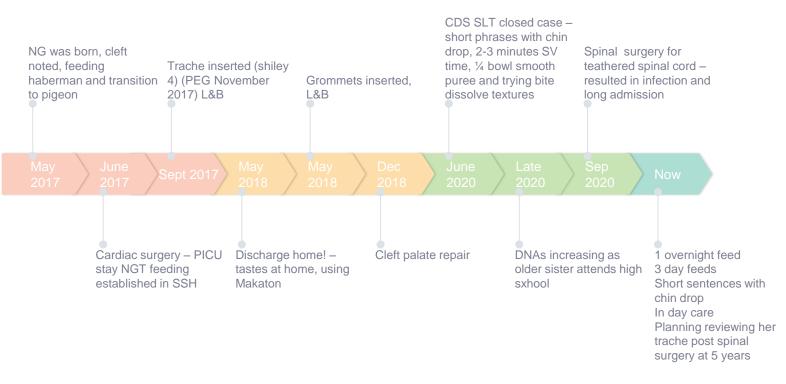
Confidently mouths family foods.



SLT feeding Fluids: recommendations: Offer fluids (as per Dietitian advice) via a free flow sippy cup or open is sitting upright and there are minimal distractions. cup. Ensure There is no limit on the amount can have, offer her as much as she will accept. Be aware of her communicating that she has had enough (e.g. refusing the cup, shutting her mouth, turning her head away). When indicates she has had enough, stop. If she starts to cough, stop offering and inform SLT. Solids: 1. Allow to play with and to use a spoon or fork and at snack times when being fed. to self-feed during snack times - allow her to 2. Encourage mouth hard munchable textures (observe and remove if she gags or chokes). Continue to offer small snacks and family meals throughout the day. Main meals are be soft solids and therapy snacks are to be hard munchables. 4. Seat Nina-Grace with the family for meals.

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TIMELINE



EARLY COMMUNICATION

Early therapy focused on preverbal communication strategies and Makaton signs.

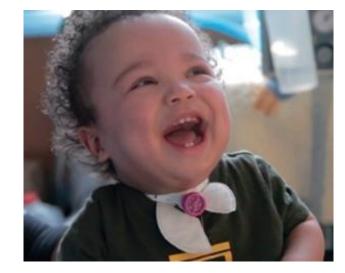
NG loved Makaton signs and used; more, finished, Mum and turn very consistently!

Then she began to get an airleak as she grew....



SPEAKING VALVE DISCUSSIONS

In 2019 discussions were had with Dr Barber and consent was gained to order a speaking valve!



Speaki

- Initially trialled ... with RN support and O2 monitoring
- Tolerating for short periods of a few seconds
- A few coughs and giggles when trialed

SPEAKING VALVE JOURNEY

- Practice continued at home
- NG began some leak speech
- NG self occluding with chin drop
- Signs still used by NG to communicate wants/ needs at single word level

- NG mastered leak speech using 2-3 words together
- Refusal to wear SV
- Throwing away the SV when placed and loosing 3!
- Family decided not to continue with SV at home – only when out

NG TURNS 3

- At 3 years of age our CDT no longer provides a service
- NG was transferred to CCS Disability Action
- 3 monthly follow ups and support through feeding and nutrition clinic to continue building on her feeding skills
- NG is doing well!



SUMMARY POINTS

- Interesting history with lots of hospital admissions and surgeries
- She had a trache 'later' in her infant life
- NG and her family had so much confidence which heled her feeding
- Despite not liking her SV at all NG is a great communicator!



Any questions? Discussion points:

- What are your local services like?
- What is your follow up for children with ongoing needs?
 - What supports are out there?

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(REDITS Presentation template by SlidesCarnival -Photographs by <u>Google images</u> Tshirt images from Stoma Stoma 20