Down's Syndrome Pathway

Version 6.0



Updated by Downright Special with support from Hull and East Riding of Yorkshire Health and Care Partnership



Contents

- 3 Introduction
- 4 Antenatal screening pathway
- 5 Antenatal screening guidance
- 6 Post-Natal Diagnostic pathway
- 7 Diagnosis pathway guidance
- 8 Post diagnosis pathway
- 9 Post diagnosis guidance

Paediatrician review and checklists

- 10 3 months 2 years
- 11 3 years 18 years
- 12 Care pathway for adults with Down's Syndrome
- Health needs for adults with Down's Syndrome
- 14 Community Team for Learning Disability Adults offer
- 15 Dementia pathway for adults with Down's Syndrome

Appendices:

- 1. Children's Audiology 16
- 2. Children's Ophthalmology 17
- 3. Children's Speech and Language Therapy Pathway 18
- 4. Sleep Related Airway Obstruction 19
- 5. Children's Physiotherapy Pathway 20
- 6. Children's Occupational Therapy Pathway 21
- 7. Downright Special 22
- 8. DSMIG Suggested Schedule of Health Checks 23
- 9. Makaton Resources to Support Sepsis 24
- 10. PCHR infection alert and tips for triaging infection in children with DS 25
- 11. Children's Continence Service (Constipation) 26
- 12. GP Learning Disability Register 27
- 13. Specialist LD Gynaecology Clinic 28
- 14. Health Visiting & School Nursing (0-19 Service) 29
- 15. IPaSS (Hull) and SaPTS (East Riding) 30
- 16. Early Years Support (Including Portage) 31
- 17. References and Acknowledgements 32
- 18. Glossary 34

Please note the most up-to-date version of this pathway can be found on the Humber & North Yorkshire ICB website. https://humberandnorthyorkshire.org.uk/downsyndromepathway/ No one ever tells you just how amazing your child will be when they are born, you are just filled with fear. fear of the unknown, fear for your baby about how will society view my child?

You're met with such low expectations, doom and gloom, sombre looks and whispers.

In reality you are parent to a beautiful baby, who just wants to nurture and love them just as any other parent does.

The care pathway, it gives you hope, something we as parents need in those very precious early days.

You need a clear view of what to expect in the future and to know that your beautiful baby will be ok.

So thank you for listening to us (in developing and using the pathway)

I don't think you realise just how much this means

Local Parent (Vicky Abbott) of a child with Down's Syndrome

"But the first, most important thing I want you to always remember: everyone with Down Syndrome is a new and different person and it isn't the most important thing about them!"

Elizabeth Elliot, (author who happens to have Down's Syndrome) from her book Can I Tell You about Down Syndrome

Pathway development

This pathway was originally developed in 2018, through partnership working with parents/carers, health professionals and people with Down's Syndrome. This pathway continues to be reviewed and updated by Samantha Findlay (RNLD), Health Lead at Downright Special in consultation with health and Social Care services and in response to parent/carer feedback. Further information can be found at https://humberandnorthyorkshire.org.uk/downsyndromepathway/. If you would like to be involved in the future development of this pathway, please email sam@downrightspecial.co.uk.

If there are any errors noticed or changes required please email corrections to Hull Health and Care Partnership hnyicb-hull.contactus@nhs.net or sam@downrightspecial.co.uk If the error presents a significant clinical risk, please contact Hull Health and Care Partnership on Telephone: 01482 344700 or email hnyicb-hull.contactus@nhs.net

Introduction

Please refer to Glossary of terms, if required, at the back of this document

Any person who has Down's Syndrome is a person first. As with any other child or adult, they will have their own unique personality and attributes. It is important to consider the holistic experience of a person's whole life and to value and support the experience of Down's Syndrome as part of that. Down's Syndrome does not define someone.

Down's Syndrome is the commonest autosomal anomaly, present in 1 in 1000 live births. In the majority of cases (95%) there is an extra chromosome, 47 chromosomes rather than 46. The extra chromosome being number 21. In 2.5% there is mosaicism, with a population of normal cells being present and in the remainder of cases chromosome translocation involving chromosome 21. In Hull and East Yorkshire there are approximately five live births per year of babies who are diagnosed with Down's Syndrome.

Some families know that their child is going to be born with Down's Syndrome due to screening processes, while other families have no indication that their child will have Down's Syndrome until they receive a diagnosis after birth. Even though everyone who has Down's Syndrome is different, there are some clinical features present at birth, and some health conditions they may be more prone to.

What is a care pathway?

A care pathway aims to have:

- the right people
- in the right order
- in the right place
- doing the right thing
- in the right time
- with the right outcomes
- all with attention to the patient experience

Feedback from families identified the need for a clinical care pathway and clinical guideline for children with Down's Syndrome. Input has been sought from parent/carers and other services involved. Navigating the complex offer of services is exacerbated due to provision being across health, social care and education. The transition to adult services from children's services is often a time of anxiety for people. This pathway is

designed to provide clarity and can give reassurance that there are processes in place. This pathway will enable people to navigate their way through health services to ensure no one who has Down's Syndrome gets 'left behind'. It is effectively putting all the health and care information pertinent for people with Down's Syndrome in one place. This may be especially helpful at a time when families are also experiencing emotions associated with adjustment to diagnosis. The document is aimed at both families and professionals therefore contains a mix of informal and more technical information.

Multidisciplinary representatives from Community Services, Hull University Teaching Hospitals Trust, education, Humber Teaching NHS Foundation Trust, City Health Care Partnership, other local services, and parents, set up a working group to produce a clinical pathway emphasising the need for information and engagement with families. Services for adults who have learning disabilities have also been involved in the development of this pathway. This pathway does not replace those services that all children and adults have access to, e.g., GP services, midwifery, health visiting, school nursing, Therapy Services, Community Health Services and hospital services. It seeks to clarify additional services that may need to be involved in the care of a person with Down's Syndrome because of some common health difficulties experienced by some people who have Down's Syndrome.

These guidelines are largely based on work done by Down's Syndrome Medical Interest Group (DSMIG, UK and Ireland) who have produced guidelines for basic medical surveillance in children with a diagnosis of Down's Syndrome. These guidelines and a wide range of other health information can be found at www.dsmig.org.uk. The Down's Syndrome Association have a lot of useful information relating to health and wellbeing and other important issues for people who have Down's Syndrome, and their families. www.downs-syndrome.org.uk

We would also like to acknowledge the work done by Nottingham Down's Syndrome Children's Services team led by Elizabeth Marder and we have utilised their guidelines for this pathway. We have also used the Grampian and Leicestershire Down's Syndrome pathways as reference tools. Further acknowledgements can be found at the back of this Pathway.

Consent from parents and carers should be obtained prior to referral and notification of needs within the pathway as per local policy. Clarification regarding consent arrangements for each service should be sought.

Antenatal screening

Antenatal Screening
for Down's
Syndrome to be
offered to all
pregnant women
booking up to 20
weeks gestation.

Screening method depends on gestation date of test.

- Combined Screening Approx. 11+1 to 14+2
- Quadruple Test
 Approx. 14+2 to 20

Previous baby with Down's Syndrome

Woman offered appointment with screening coordinator or deputy to discuss options which will include screening and prenatal diagnosis. If woman opts for screening will be informed of results As soon as available

Low Chance > 1:150

Baby has a lower chance of having Down's syndrome if the test result is higher than 1 in 150
Or
Woman declines screening.

High Chance

< 1:150

woman informed by

telephone and offered face

to face appointment with

screening coordinator or

screening midwife

Woman given Downright

Special information packs

and link for Positive about

Down Syndrome

Scan findings

suggest baby may

have Down's

Routine antenatal care

Woman opts for NIPT.

Low chance result

Antenatal care will be dependent on maternal and foetal health and will form part of an individual

Care plan

Birth of baby

New-born and Infant Physical Examination (NIPE)

Woman decides no further action.

Options discussed

-no further action-NIPT screening-Prenatal diagnostictesting

Woman given Downright Special information packs and link for Positive about Down Syndrome

Typical QFPCR / Karyotype

Woman notified by pre-agreed method

Woman opts for prenatal diagnosis (amniocentesis/CVS) Options discussed

- -no further action
 -Prenatal diagnosis
- -Prenatal diagnosis

Woman opts for NIPT

High chance result.
Referral to Downright Special
with consent

Down's Syndrome QFPCR/ Karyotype Positive Diagnosis

- Result given by screening coordinator or deputy. Parents are notified by previously agreed method which is often by telephone.
- An appointment to discuss options face to face should be offered within 24 hours.
- Plan of care discussed, agreed with woman and documented diagnosis

Downright Special information pack given. Referral to Downright Special with consent (Appendix 7)

Personal care plan supplementary sheet for Down's Syndrome given (see link under support P5)

Infant Feeding
Co-ordinator notified.

Appointment offered with a Neonatologist.

Woman's GP and The 0-19 Service (Health Visiting) notified.

Health visitor notified to prepare for introduction to the family.

Foetal cardiac echo in Leeds

Syndrome

Pathway provided by Hull and East Yorkshire Hospitals Trust Neonatal Screening Co-ordinator, February 2022

Useful links and contacts

Information about the tests for Down's Syndrome

- Screening test for you and your baby [Public Health England, NHS Screening Programmes]
- Screening for Down's, Edwards' and Patau's syndromes [NHS Choices]

Information and contacts for positive diagnosis https://www.downs-syndrome.org.uk/about-downssyndrome/pregnancy-and-baby/looking-forward-to-your-baby-2/

Support for professionals delivering a positive diagnosis https://www.downs-syndrome.org.uk/our-work/servicesprojects/training/tell-it-right-webinar-for-maternity-services-anduniversities/

Support for parents telling friends and family https://www.downs-syndrome.org.uk/wpcontent/uploads/2022/12/Friends-and-family-leaflet-web-versionsingle-page.pdf

Antenatal and New-born Screening Co-ordinator 01482 382737

Downright Special (Hull & East Riding Down's Syndrome Support Group) 01482 420160 enquiries@downrightspecial.co.uk Or register/refer online

https://www.downrightspecial.co.uk/contact-us

Positive about Down Syndrome (PADS)

Positive About Down Syndrome – A website by parents for parents and parents-to-be

DSUK

Wide range of online peer support groups tailored to specific needs including expectant parents https://downsyndromeuk.co.uk/about-dsuk/support-groups/

Antenatal screening guidance

In England all pregnant women under 20 weeks gestation are offered screening for Down's Syndrome at their booking appointment by the community midwife or booking midwife.

The decision whether to accept or decline screening is up to the woman, and enough time should be given to enable them to come to a decision. If a woman has had a previous baby with Down's Syndrome, then the screening coordinator or deputy will discuss options which include screening and prenatal diagnosis. If the current NHS screening pathway is followed then the woman can be informed of her results by telephone as soon as they are available, if she wishes.

Prenatal options

Some women decline screening for Down's Syndrome. If however, the woman has accepted screening and gets a higher chance result, non-invasive prenatal testing (NIPT) and prenatal diagnostic testing will be offered. Further information can be found at:

https://www.gov.uk/government/publications/cvs-and-amniocentesis-diagnostic-tests-description-in-brief/nhs-fetal-anomaly-screeningprogramme-chorionic-villus-sampling-cvs-and-amniocentesis-information-for-parents

The decision whether to accept or decline further testing is up to the woman, and enough time should be given to talk through the options and come to a decision. Further information about diagnostic tests can be found on NHS choices website.

Screening in pregnancy: CVS and amniocentesis information for parents - GOV.UK (www.gov.uk)

Communicating diagnosis/results

At the point of prenatal diagnosis, agreement should be made between the woman and the health professional (usually the Screening Coordinator or Deputy) to establish how the results will be communicated. Results will usually be given over the phone with the opportunity to discuss face to face, however the woman will always have a choice as to how she wants to receive results.

Support

If a diagnosis is made antenatally, choices available to a woman and a personalised plan of care will be discussed including the supplementary sheet for Down's syndrome which can be found at: https://www.humberandnorthyorkshirematernity.org.uk/pregnancy-journey/choice-and-personalised- <u>care/personal-care-plans/</u> Information about Down's Syndrome including local and national support organisations such as the Down's Syndrome Association, Positive About Down's Syndrome and Downright Special will be offered.

Contact will be made with the 0-19 years Service in Hull or East Riding; and the child will be allocated a Health Visitor. A referral to Downright Special with parent/carer consent may also be made.

Counsellina

Being told that a baby may have Down's syndrome can be difficult news. Information and time should be offered to allow a woman and her partner to discuss the impact of the diagnosis upon them and their family and obtain the necessary support from services available to them.

Post-natal Diagnostic pathway (for professional reference)

Baby does not have Birth Down's Syndrome of baby Karyotyping Negative result With parent's consent Normal Karyotype Down's Syndrome Send to Hull Pathology suspected Service transport via hospital Clinical features present systems (See below). Notify laboratory by phone **Downright Special** Request transport via information pack offered to **BLOODFAST** to ensure arrival Positive result parents at Leeds Down's Syndrome Definitive diagnosis confirmed by of Down's Syndrome To be given to the parent/s antenatal testing by Consultant Paediatrician. and screening Blood tests within 1st 3 days

- Information pack given. Referral to Downright Special (Appendix 7)
- Infant Feeding Co-ordinator notified at Hull Royal Infirmary
- Appointment offered with a Neonatologist.
- Woman's GP and Health visitors notified
- Health visitor to prepare for birth visit contact (Appendix 14 and P9)
- Health Visitor notifies the local authority of birth of child with SEND (Section 23). In Hull this is the Early Years Access and Inclusion Team. In East Riding the Early Years Support Team. Portage sits within these teams (Appendix 16)
- Referral to Physio if baby presents with extreme hypotonia or other need identified

Clinical features at birth some babies may have some of the following

General

- Poor feeding
- Flat occiput (back of head)
- Short broad hands
- Single transverse palmar crease (crease across palm of hand)
- Low muscle tone
- Short neck

Facial and eyes

- Prominent epicanthic folds (Skin fold in upper eyelid)
- Upward slant of eyes
- Brushfield spots in the iris
- Low set small ears
- Flat nasal bridge
- Congenital cataract
- Glaucoma
- Tongue may protrude from mouth.

Abdomen

- Hirschsprung's disease (bowel problem)
- Intrahepatic biliary hypoplasia (Liver problem)
- Duodenal atresia/stenosis (Intestine problem)

Limbs

• Short incurved little fingers

of life: FBC, blood film.

- Sandal gap between first and second toes
- Dislocation of knee
- Hip problems.

Heart and blood

- Atrial and ventricular septal defects
- Congenital leukaemia –
 (Commonly AML and acute megakaryoblastic leukaemia)
- Mild Pancytopenia (reduction in blood cells)
- Neutropenia (low levels of a type of white blood cell)
- Transient abnormal myelopoiesis (abnormal number of certain blood cells)
- Polycythaemia (increased number of certain cells)

Useful links and contacts

Health Visiting Teams

Hul

Hull 0-19 Integrated Public Health Nursing Service (IPHNS) (humber.nhs.uk). Professionals, call or email us 08:30am -5:00pm Monday to Friday (excluding Bank Holidays). 01482 259600. hull.cypcommunityservices@nhs.net. Parents call or email 08:30am -5:00pm Monday to Friday (excluding Bank Holidays). 01482 259600 or via parent line text: 07312 263206 or use the QR code below



East Riding

East Riding Health Visitors and School Nurses | ISPHNS (humberisphn.nhs.uk)
East Riding Single Point of Contact (parent/carers or professionals) 01482 689689

Hull Early Years Access and Inclusion Team

Family information Service 01482 318318

<u>Early Years Access and Inclusion Team | Support in Early Years | Hull SEND Local Offer (mylocaloffer.org)</u>

East Riding Early Support Team

To make a request for Early Yrs. Support follow the link. You will be asked to open an ER account, but the process is brief. https://east-riding-self.achieveservice.com/service/Early-Support eyst@eastriding.gov.uk

Downright Special

01482 420160. enquiries@downrightspecial.co.uk Or register/refer online https://www.downrightspecial.co.uk/contact-us

DS UK

Wide range of online peer support groups tailored to specific needs e.g., Breastfeeding, NG tube feeding, Dads, grandparents, adoptive parents and new parents (0/18mths)
https://downsyndromeuk.co.uk/about-dsuk/support-groups/

Diagnosis pathway guidance

Chromosomal blood samples

Should be taken with consent from Parents and sent to Hull Pathology Service to be transported by hospital systems. It is essential to telephone the laboratory to inform them of the imminent arrival of the sample and to request transport by 'Bloodfast' and not the shuttle system. This would ensure the sample arrives at Leeds Cytogenic Laboratory the same day, and testing can be started as soon as possible, (preferably that day or the day after). Sending a sample by shuttle can add unnecessary delay. Non urgent samples or a very low likelihood of a positive diagnosis may be sent routinely if clinically appropriate.

Diagnosis and disclosure

Parents should be told of diagnosis as soon as possible, preferably by a senior Paediatrician and the responsible Consultant.

Chromosome analysis should be requested urgently, but advice of the likely diagnosis should not be delayed waiting for the results.

A Downright Special new parent information pack is available on the ward to give to parent/s which includes advice around adjusting to diagnosis. Contact can be made with Downright Special by family or staff at any time to request emotional or practical support (appendix 7)

Medical history and examination

Routine neonatal examination should pay particular attention to common complications of Down's Syndrome such as bowel atresias, Hirschprung's disease, cardiac defects and cataracts. See appendix 8 for DSMIG schedule of recommended health checks and appendix 2 for recommended ophthalmic screening.

Chromosomes: Ask for a rapid FISH test first and full test as soon as possible. Two millimetres of blood (less may be possible) in a lithium heparin bottle and send to lab straight away or store specimens in fridge if out of hours.

Full blood count (FBC) and blood film to check for a serious blood disorder: Minor abnormalities in a blood count are commonly seen and should be managed as for any other baby. Transient abnormal myelopoiesis (TAM) is reported to occur in 10% of babies with Down's Syndrome and may need advice from the Paediatric Haematologist. Thyroid screening: Routine New-born screen is satisfactory, but it is necessary to chase and record the result. Record TSH result from new-

born blood spot. Thyroid screening will need to take place routinely throughout life.

Clinical cardiac assessment:

This should be performed by a senior paediatric trainee or Consultant prior to the baby leaving the hospital and should include a physical examination. If cardiac murmur is present, then prior to discharge baby must be reviewed by the Neonatal Consultant and an echocardiogram take place before discharge. If a baby is asymptomatic and antenatal scans are normal, then a scan should be arranged within first 8 weeks of life as an outpatient.

Postnatally, all babies should have oxygen saturation monitoring whilst still in hospital on the post-natal ward or Special Care Baby Unit. If there is no murmur present, antenatal scans were normal, and the oxygen saturations have remained satisfactory, then follow up with the Paediatric Cardiologist can be arranged as an Outpatient.

Note: All babies with a significant left to right shunt should be referred for RSV prophylaxis.

Physio referral: Make referral if baby presents with extreme hypotonia or another need identified (Appendix 5). Baby will usually be seen on discharge.

Universal neonatal hearing screen.

Check this has been done and record the result.

Infant Feeding Coordinators

Should be notified of the birth of a baby who has Down's Syndrome regardless of the chosen/preferred method of feeding. This will enable the Co-ordinators to support the parent/s to establish feeding, as we know that babies who have Down's Syndrome can be poor feeders for a variety of reasons including sleepiness, jaw/tongue/ muscle tone/co-ordination issues.

Referrals/notifications to be arranged by Neonatal Team as part of discharge preparation

The 0-19 Years' Service should be contacted as soon as it is identified that a baby may have Down's Syndrome (Appendix 14). The Children's Community Nursing Team may also be contacted for further support and advice if there is a nursing need present. A comprehensive medical assessment according to the guidelines must be carried out prior to discharge. A Neonatal discharge letter for babies requiring inpatient treatment will be sent to the GP and Health Visitor ASAP and a clinic appointment arranged in Neonatology.

Post diagnosis pathway

If not already done, notify Infant Feeding Co-ordinators to support initiation of feeding.

Definitive diagnosis of Down's Syndrome, personalised plan in place

e.g., referrals to doctors or specialists to meet individual needs

Local Authority notified

0-19 Service referral (Appendix 14) to provide support and monitoring. Health Visitor (or other health professional notifies local authority of special educational needs (SEND), (Section 23).

Parent/s support

Downright Special referral/signposting: emotional and practical whole family specialist/peer support (Appendix 7).

Screening and management by specialist services.

E.g. Cardiology, Ophthalmology, Audiology. (Guidance notes P.9) For hearing and/or vision impairment support and/or physical difficulties refer to SaPTS (ER) and IPaSS (Hull) to support inclusion (Appendix 15). Referral to Speech and Language Therapy (appendix 3)

Neonatology

Clinic reviews in Neonatology led clinic. Neonatology Consultant to refer to Community Paediatric Team. The Community Paediatric team will start reviews from the 1 year follow up. To allow a period of overlap, involvement of both teams will happen until 2yrs of age depending on complexity of care needs (e.g., preterm < 33 weeks, significant cardiac abnormality etc.)

Parents informed they can request their child be added to their GP's Learning Disability Register (Appendix 12)

Ongoing screening/annual review by Community Paediatrician (Neuro-genetic clinic) P11/12

Refer to Down's Syndrome Medical Interest Group schedule (Appendix 8). (www.dsmig.org.uk). Referral based on need to Cardiology, ophthalmology, audiology, physiotherapy, Continence, OT and other specialist services

Early years education

Early yrs. access and inclusion Team (Hull) and Early Yrs. Support Team (ER) (including Portage and area SENCO) provide support/training to families and Early Years settings and choosing/transition to/from settings/starting school (Appendix 16). For hearing and/or vision impairment support and/or physical difficulties in settings refer to SaPTS (ER) and IPaSS (Hull) to support inclusion (appendix 15). 15 hrs Free childcare eligibility at age 2. Downright Special can provide specialist support with finding/starting and inclusion within Early Yrs. settings and deliver weekly early intervention/communication group sessions (appendix 7)

GP and 0-19 Service

Continuing involvement of HV, school nursing and GP (as with any child). GP aware that people with DS are more vulnerable to serious infections and may present atypically. Low threshold for suspecting serious infection, starting antibiotics and to review if viral infection diagnosed. Additional vaccinations

Neurodiversity Services

Children's LD Team support 0-18 with understanding & managing behaviour, sexual safety & emotional regulation. Sensory Processing Team and ASD/ADHD Assessment teams are also within this service. (P10 for referral info). KIDS (Yorks and Humber) for sleep difficulties as 1st level intervention.

Personalised Care Planning/school

EHCP process starts based on need when family and professionals agree appropriate and when sufficient evidence to support the EHCP request. Early yrs. Access & inclusion Team (Hull and Early Years Support Team (ER) maintain links, support with this process and continue involvement until school (Appendix 16)

School/Transition to adult

Personalised, needs led care planning throughout childhood by 0-19 Service, Specialist health Services, Education Services, Social Care, and family.

School Nursing (0-19 Service) can support to age 25 with e.g., toileting, sleep, PHSE, behaviours, weight management (Appendix 14). IPaSS and SaPTS may support to age 25 (Appendix 15)

Paediatrics discuss transition to mainstream adult health services within transition clinic review appointments from age 14 on. Relationship building with GP starts from age 16 on. Paediatric discharge at age 18. Paediatrics refer to adult Community Learning Disability Team from 17.5yrs (CTLD) if an appropriate unmet need exists.

Children's Learning Disability Team (Neurodiversity Service) involved in transition to CTLD (adult) only where a child is already open to the team and a nursing need remains. Adult Social Care to be invited to transition meetings to prepare for smooth transfer to adult services.

also recommended (Appendix 10)

Children's growth should be plotted on growth charts (centiles) specific to children with Down's Syndrome. These are to be kept in the PCHR (Red Book). The pages are green in colour. This 30 pg. insert also contains additional information for parents/professionals to help them maintain the health and wellbeing of children born with Down Syndrome. https://www.dsmig.org.uk/information-resources/personal-child-health-record-pchr/

Useful links and contacts

NB- Occasionally numbers may change – please refer to organisation's website if necessary.

Community Paediatric Secretaries 01482 315586

Paediatric Speech and Language Therapy 01482 692929 (option 3)

Children's Occupational Therapy Service
Hull 01482 692929 (option 4)/East Riding 01482 478898

Children's Community Physiotherapy Service Hull 01482 336774.

Email: hnf-tr.childrensphysio@nhs.net

Hull Royal Infirmary Acute Paediatric Physio Team Hull 01482 674532

Email: paedphysio.hri@nhs.net

Paediatric Audiology Service

Email: <u>hyp-tr.paediatric.audiology@nhs.net</u>

01482 623072

Children's Community Nursing-Continence Service 01482 344075

Hull and East Riding Children's Neurodiversity Service.

Autism/ADHD assessment, Children's LD Team, Sensory Processing Service. 01482 692929 (option2).

Hull and East Riding Children's Neurodiversity Service

(humber.nhs.uk). See website for updated information and referral forms.

KIDS (Sleep support)

Hull and East Riding SEND sleep service (East Riding) - Kids

IPaSS (Hull)

Email: <u>ipass@hullcc.gov.uk</u>

01482 318400 SaPTS (ER)

Email: specialistservices.hub@eastriding.gov.uk

01482 394000 (option 5)

Hull Local Offer Website

https://hull.mylocaloffer.org/

East Riding Local Offer Website https://eastridinglocaloffer.org.uk/

Post diagnosis professional guidance

The Midwifery Service involved up to 28 days after birth. Family will receive ongoing support from their Health Visitor (appendix 14). Health Visitor (or other professional) notifies Local Authority (Section 23, legal requirement) Early yrs. access and Inclusion Team (Hull) or East Riding Early Support Team (ER) of child's additional needs. Portage (and other) support e.g. Nursery transition also be discussed with these teams (Appendix 16). Family will receive ongoing care from the Neo-natal team Paediatrician (3 and 6 mth. reviews). Referral is then made to the Community Neurogenetic Clinic for the 1yr review. If Neonatal Team are supporting with ongoing medical needs, there may be a short overlap. Parent or professional to refer to Speech and Language Therapy (Appendix 3).

Initial visits – Health Visitor (0-19 Years Service)

The initial visits (contacts) take place within the statutory scheduled time frames (appendix 14). The purpose of visits (in addition to universal baby related support/advice) is to give parent/carers information about Down's Syndrome, about local services and opportunity to talk about diagnosis/ask questions. IHV Good Practice Points for Health Visitors about supporting children with DS and their families (including growth, feeding and development) can be found here https://ihv.org.uk/for-health-visitors/resources-for-members/resource/good-practice-points/generic-gpps/supporting-children-with-downs-syndrome/

Information to be gathered prior to initial visit: In addition to the usual information, you would need for first visits, also consider:

- Confirm parents are ready to meet the Health visitor
- Was the child expected to have Down's Syndrome?
- What do the family already know about DS (P5 and 7 for useful links)
- Is the chromosome result available? If not, when will it be?
- Associated health/feeding difficulties e.g., are they discharged home with tube feeding. (If so, has a competency training pack been completed? Is there adequate supplies and arrangements for consumables)

Information to be given to the family on first visits:

- -Downright special new parent pack (if not given in hospital)
- -Green Personal Child Health Record (PCHR) inserts, provided as soon as possible to ensure growth is plotted on appropriate charts specific for Down's Syndrome. The insert also contains additional information for parents/professionals to help them maintain the health and wellbeing of children with Down Syndrome.

https://www.dsmig.org.uk/information-resources/personal-child-health-record-pchr/

Encourage access to community Child Health clinics for weighing, advice on development and general child health. Share information about specialist infant feeding support and perinatal mental health service (East Riding).

Follow up visits (Appendix 14)

Usually take place at home but may need to be in hospital if the child is still an inpatient. General discussion and provision of further information regarding Down's Syndrome and locally available services (e.g. Downright special, Appendix 7). Specific Down's Syndrome literature from the Down's Syndrome Association to be given to the

family. Offer the family the opportunity to meet with other families if not already had contact with Downright Special. Consider signposting to PADS information/niche online peer support groups (info P7). Remind families they can request their child be added to the LD Register from birth and discuss benefits (Appendix 12)

Health Visitor to confirm that the Neonatal team have:

- Arranged the following investigations and completed a discharge letter to the GP and Health Visitor.
- Echocardiogram done or booked through Outpatients with paediatric cardiologist (follow-up arranged if necessary)
- Hearing Screen
- Karyotype and, if parents not aware of result, when and how will this be communicated with them.
- GP informed.

Transition to school and beyond. Ongoing Notes for professionals Ongoing support from Health Visitor and school nursing on a needs led basis (Appendix 14).

At least annual review by Community Paediatric Service (Neuro-Genetic Clinic) up to age 18 (P 10 and 11)

Always enquire regarding continence (whether frequency and consistency of stool is abnormal) and any delay with toilet training. Referral to continence team or 0-19 service if appropriate following examination by GP (Appendix 11). NHS National Primary Care Clinical Pathway for Constipation in Children (england.nhs.uk)

Disability Living Allowance (PIP age 16+): The family have a right to apply with support from agencies including Downright Special.

Health Visitor, Portage, Early yrs. support teams or settings (lead professional) to request discussions (TAF meeting) about/request for initial EHCP (Appendix 16) and to support transitions to nursery/school. Downright Special can also support/advise with school transition and inclusion. Annual review of EHCP within school/college. EHCP Transition reviews (primary-secondary and secondary-post 16) must happen in Autumn term prior.

Neurodiversity Service can support with managing behaviour, emotional regulation, sexual safety (Children's LD Team) sensory processing difficulties and Autism/ADHD assessment. KIDS can support with sleep difficulties.

Child entitled to Needs Assessment (Children's Act 1989) and parent/carer/s to a Carers assessment (Children and Families Act 2014) via Social Care. Social Care support where assessed as appropriate.

Transition to adult health services, age 14-18

Annual review by Community Paediatrician includes preparation for adult services (transition clinic) from age 14 on (P11). In addition GP LD Annual health check from age 14. Referral to Adult Community Learning Disability Team just before 18 if need identified (P 14). Children's LD Team involved in transition to adult CTLD where child is open to the service and nursing need remains.

needed. Downright Special/KIDS

Paediatrician review schedule & checklists

(Appendix 5)

3 Month Review	6 Month Review	1 Year Review	2 Year Review	
Medical review; plot growth onto Down's Syndrome chart	As 3 months including vision check (Appendix 2/Appendix 15)	First review in Community Paediatric Neurogenetic Clinic; care overlaps with neonatal team as required for 1 year. Review and full examination, including ENT and eyes (Appendix 2). Plot	Clinical examination as previous review. Particular attention to growth (plot on DS chart, low threshold for investigation of coeliac Disease), Any unusual or recurrent infections. Review	
Feeding and Gastro Oesophageal Reflux (GOR) symptoms	Investigations: Thyroid blood test at 4-6 months (DSMIG schedule Appendix 8)	growth on Down's Syndrome specific charts (red book)	development. Investigations: See DSMIG schedule of investigations (appendix 8):	
Cardiac assessment, check ECHO	Immunity: Discuss maximising via	See DSMIG schedule of investigations (appendix 8): Thyroid bloods, vision, hearing, growth, heart, breathing.	Thyroid, vision, hearing, growth, heart, breathing, blood.	
reported - refer to Cardiology if necessary	vaccinations as per childhood schedule with additional yearly influenza vaccine. For household	Infection: Discuss unusual/recurrent (Appendix 10). Immunity:	Immunity: Discuss maximising via vaccinations per childhood schedule with additional single dose of Pneumovax II (at least 2 months after final dose PCV. Pneumovax II should not be repeated	
Hearing (Appendix 1) and vision (Appendix 2/Appendix 15)	members annual influenza vaccine (Appendix 10) and COVID vaccine when available	Discuss immunisation, recommendations as 6-month review	within 5 yrs. (Appendix 10). Consider blood tests for immune function at discretion of paediatrician. If on testing pneumococcal antibodies low (despite recent Pneumovax II) or concern regarding	
Frequency of urination, bowel function, stool frequency and consistency	Check new-born hearing results are known; write to Paediatric Audiology to ensure full review at 8-	Discuss breathing in sleep, annual oximetry test (Appendix 4) and DSMIG schedule (Appendix 8) or if clinical concern and/or refer to ENT; Ensure hearing assessed at 8-10 months	immunodeficiency discuss with immunology. Yearly influenza vaccine for child and household members. COVID vaccine for household members when available	
Infections (recurrent or unusual), Appendix 10	9 months	Discuss therapies input. Referral to physio if concerns about extreme hypotonia and/or gross motor skill development	Check hips, knees, foot position and spine. If not weight bearing, request hip x-ray and ensure physiotherapy input.	
Referral to physio if concerns about extreme hypotonia and/or	If not referred/seen already, refer to SALT for review at 9 months	(Appendix 5). Consider referrals to orthotics for assessment; review development (see red book insert for DS milestones)	Discuss toilet training, signpost to Health Visitor for advice in first instance (contact P7). Discuss bowels. If stool frequency or type	
gross motor skill development (Appendix 5)	Infancy Oximetry test. (Appendix 4) and DSMIG schedule (Appendix 8)	Cervical spine (Atlanto-axial instability) discussion; signpost to	abnormal refer to Continence service (Appendix 11). Low threshold of investigation for Coeliac Disease.	
Immunity: Discuss maximising via vaccinations as per childhood	Check Section 23 SEND notification made to the Local Authority	the DSA website for information.	Discuss whether any emerging differences in social communication/social interaction (SALT may have noted)	
schedule. For household members annual influenza vaccine (appendix 10) and COVID	(Appendix 16). Health visitor (or any health professional) can do this	Check hips, knees, foot position. Review spine	compared to other children with Down's Syndrome. Consider possible dual diagnosis of DS/Autism, make family aware of the co-existing diagnoses.	
vaccine when available	Frequency of urination, bowel	Frequency of urination, bowel function and stool frequency/consistency (low threshold for investigation of	Vision checks. See Appendix 2 guidelines for referral to ophthalmology. Dental care- referral to specialist dentist indicated?	
Health Visitor in place?	function, stool frequency and consistency	coeliac disease)		
(Appendix 14)		Family aware they can apply for Disability Living Allowance? Early Help, children's centres or Downright Special can support.		
Discuss family life & adjustment to diagnosis. Refer for support if	Referral to physio if concerns about extreme hypotonia and/or gross	Check child referred to L.A Early Yrs. Team for support including portage (Appendix 16)	Early education plans underway e.g. Early Yrs. Support Team (including portage) to support setting inclusion (Appendix 16)	

(Appendix 15).

3 and 4-Year Reviews

Clinical examination as previous reviews. Particular attention to growth (plot on DS chart, low threshold for investigation of coeliac Disease), Any unusual or recurrent infections. Review development.

Musculoskeletal review: Hips, knee position, foot posture, ambulation, scoliosis, perthes, pes planus, arthritis.

Discuss general health. Investigations: See DSMIG schedule of investigations (appendix 8): Thyroid bloods, vision, hearing, growth, heart, breathing.

Discuss breathing in sleep, annual oximetry test (Appendix 4 and DSMIG schedule Appendix 8) or if clinical concern and/or refer to ENT if symptomatic.

Vision checks including squint. Check referral/attendance at eye clinic. Appendix 2 guidelines for referral to ophthalmology

Discuss toilet training, signpost to Health Visitor for advice in 1st instance if not achieved. Refer to continence service for advice/support/ product. Discuss bowels. If stool frequency/type abnormal refer to Continence service. Low threshold for investigation of Coeliac Disease

Immunity: Discuss maximising via vaccinations per childhood schedule with additional single dose of Pneumovax II (at least 2 months after final dose PCV. Pneumovax II should not be repeated within 5 yrs. (Appendix 10). Consider blood tests for immune function at discretion of paediatrician. If on testing pneumococcal antibodies low (despite recent Pneumovax II) or concern regarding immunodeficiency discuss with immunology. Yearly influenza vaccine for child and household members. COVID vaccine for household members when available

Dental care discussion

Discuss Strengths, skills, progress. If concerns about development, behaviours or sensory processing refer to Neurodiversity Service (includes children's LD Team, sensory processing and ASD/ADHD assessment Teams). Signpost to KIDS for sleep difficulties support

Discuss any emerging differences in social communication or social interaction (compared to peers with DS). Consider possible dual diagnosis of DS/Autism, make family aware of co-existing diagnoses.

Ask whether child has an ED alert on HUTH EPR. Ask whether child has a health passport document in case of emergency. Refer to Downright Special for support with health passport.

Early Yrs. Teams (Appendix 16) IPaSS/SaPTS (Appendix 15) involved to support with transition/inclusion. If school transition is complex the 0-19 Years Service may be able to support (needs led basis). Downright Special can support with transition to school.

5 Year Review & Annual Review

As for other reviews, repeat full clinical examination. Ensure DSMIG (appendix 8) investigations are continuing as per schedule.

Discuss unusual or recurrent infections

Immunity: As 3 yr. check (Appendix 10)

Discuss breathing in sleep, oximetry test if not had already by age 5 (Appendix 4 and DSMIG schedule Appendix 8) or if clinical concern above age 5 and/or refer to ENT if symptomatic.

Discuss bowels (low threshold for investigation of coeliac). If stool frequency or type abnormal refer to continence service. Discuss toilet training. If not achieved refer to continence service for continence support and product (appendix 11)

Discuss therapy and educational input. Consider referral to orthotics for assessment or to physio via MSK pathway (Appendix 5). IPaSS or SaPTS (Appendix 15) supporting access/inclusion in school if vision/hearing impairment or physical difficulties.

Vision checks including squint. See Appendix 2 guidelines for referral to ophthalmology

Dental care discussion

Discuss Strengths, skills, developmental progress. Any differences in social communication/interaction (compared to peers with DS consider possible dual diagnosis of DS/Autism). If concern about behaviours, development, sensory processing refer to Neurodiversity service (Children's LD Team, sensory team, ASD/ADHD assessment team). Signpost to KIDS for sleep support

Discussion about puberty and sex/relationship education when time appropriate. If extra support required, consider referral to Neurodiversity Service (Children's LD Team)

Family aware they can apply for Disability Living Allowance if not refer to Early Help, Children's Centres or Downright Special for advice.

Does child have an Emergency Dept alert on HUTH EPR. Does child have a health passport in case of emergency/admission. Refer to Downright Special for support with this. Is child on GP LD Register? (Appendix 12)

Transition to adulthood reviews (14-18)

Transition to relevant (need dependent) adult secondary care specialisms discussed at annual paediatric reviews between ages 14-18. If specialist adult secondary services may be needed (rather than GP care) case discussion at hospital neuro transition MDT. Relationship building with GP from age 16 onwards. Prompt families regarding GP Annual health check (from age 14, appendix 12). If need identified, consider referral to Adult Community Team Learning Disability (CTLD) from age 17.5 as part of transition planning. CTLD work alongside paediatrics. Page 14 for full range of support provided by CTLD. Discharge from paediatrics at 18

Repeat full clinical examination.

Discuss bowels. If stool frequency or type abnormal refer to continence service. Discuss toilet training. If not achieved refer to continence service for continence support and product. Review and transition to adult bowel and bladder service at age 18 (appendix 11). Low threshold of investigation of Coeliac Disease.

Dental care- referral to specialist dental team indicated?

Immunity: Discuss annual influenza vaccine and COVID vaccine when available for YP and household members.

Discussion about puberty and sex/relationship education when time appropriate. If extra support required, consider Referral to Neurodiversity Service (Children's LD Team).

Males: Discuss that advisable to regularly check the testes. If YP not able to do this himself then it can be included as part of the annual health check with GP." Refer to McMillan Easy-read guide to self-checking.

Discuss Strengths, skills, aspirations, progress. (To age 17.5) If concern about behaviour, development or sensory processing refer to Neurodiversity Service (Children's LD Team, Sensory Processing team, ASD/ADHD Assessment team). Signpost to KIDS for sleep support. The children's LD Team involved in transition to Adult LD Team (CTLD) where child is open to team and nursing need remains.

Does young person have an Emergency Dept. alert on HUTH EPR. Does young person have a health passport in case of emergency/admission. Refer to Downright Special for support with this. Is young person on GP LD Register and receiving an LD Annual Health Check with GP (14 yrs. +) (Appendix 12)

Care Pathway for adults with Down's Syndrome

Discharge from Paediatrics age 18. Young person (14-18) supported by paediatrics to transition to any specialist secondary adult services identified as needed and/or CTLD if need identified. Relationship built with GP from age 16 onwards.

Care provided by **GP**. In addition to GP appointments on request (as available to any citizen), from age 14 GP best practice is to offer a **Learning Disability Annual Health Check (AHC)**. A Health Check Booklet should be given to the person with Down's Syndrome to complete prior. A Health Action Plan will be given after the AHC. For further information (including Easy-read) see http://www.chcpcic.org.uk/pages/wellbeing-service. If not already, the person should be added to the practice learning disability register (Appendix 12). NB-People with Down's Syndrome have the same access to any universal health services as anyone else and are legally entitled to "reasonable adjustments" to enable them to access mainstream services. GP to refer to **ENT or Audiology** (if over age 50) with any suspected hearing problems identified at AHC. For females (from 1st menses onwards) with difficulty accessing universal services Conifer House **Specialist Learning Disability Gynaecology Clinic** can be accessed via parent or GP referral (Appendix 13). **School Nursing support** can be requested on a needs led basis (to age 25 with EHCP) if a public health need (Appendix 14)

Any adult with Down's Syndrome, any health or social care professional, any parent or carer identifies a need for specialist support from the CTLD (P 14) details full scope of support provided by CTLD. CTLD welcomes phone contact to make enquiries prior to referral.

Need for support by CTLD identified e.g. Behavioural distress, nursing need, mental health need, psychology or therapy need present? Page 14 details full scope of support provided by CTLD

Primary Care GP Baseline assessments and health checks.

Prior to referral to rule out physical ill health e.g., urine infection

From age 17.5, Young person transitions into care of (adult) CTLD with a nursing need identified by paediatrics, therapies or children's LD Team. CTLD work alongside other services during transition period.

Referral to the Community Learning Disability (CTLD)

Service for assessment.

Liaison Nurse (Currently Theresa Lambert) if needed. Contact HRI hospital safeguarding team. When a patient with a LD is admitted, an alert is placed on their electronic record. The nurse sees this alert and can offer additional support as/if needed. The nurse can then attend the ward to monitor the patient's well-being, support the patient, carers/relatives or provide education for staff/doctor regarding M.C.A/Best Interest processes. The nurse will try to facilitate a safe/speedy discharge and may liaise with community LD teams to avoid further admissions. The Hospital Communication Handbook and a Hospital passport help staff to care for individuals. This should include baseline presentation to enable health professionals to effectively assess condition. The Wellbeing Service, Liaison Nurse or Downright Special can support with creation of a hospital passport

If appropriate, CTLD intervention to address issue and either discharge, or signpost appropriately to other services

If indicators of developing

Dementia, referral to be made
to the combined Down's

Syndrome Dementia clinic. See
page 15.

More information about healthcare for people with learning disabilities on the following website. http://www.chcpcic.org.uk/pages/wellbeing-service

Useful links and contacts

Adult Community Learning Disability Team (CTLD)

Hull 01482 336740 East Riding 01377208800

Wellbeing Service

City Health Care Partnership (chcpcic.org.uk)

01482 335642. Service covers Hull however website content accessible to all. Information about Annual Health Checks and Health Action plans including accessible information.

Acute Learning Disability Liaison Nurse

Hull Royal Infirmary. The Liaison Nurse sits within the hospital safeguarding team. Phone the main switch board (01482 875875) And Request to be connected.

Hull Safeguarding Teams

Children 01482 616092 Adults 01482 616092

East Riding Safeguarding Teams

Children 01482 395500 Adults 01482 396940

Please Note

A person with Down's Syndrome can develop any medical condition as with the general population. The conditions (right) are highlighted as we know there is a higher incidence of those occurring in people who have Down's Syndrome. From age 14 everyone with Down's Syndrome should be able to access an Annual Health Check (AHC) with their GP/primary care team. This is in addition to the universal, needs led access to the GP available to all adults and ensures that physical and mental health needs are pro-actively and regularly reviewed. Between health checks If there are concerns regarding any other health needs, conducting a GP consultation is essential.

Health needs for adults with Down's Syndrome

The following conditions are more prevalent in adults who have Down's Syndrome, therefore screening and a **lower threshold for further investigation** is important. Annual Health Checks should be comprehensive and include assessment and discussion about the following in particular. A Health Action plan to be created/provided following health check. The Down Syndrome Medical Interest Group (DSMIG) exists to help clinicians in their medical management of people with Down Syndrome. <u>DSMIG – Down Syndrome Medical Interest Group</u>

- Obesity
- Hearing impairment
- Gastro-oesophageal reflux
- Eye problems
- Osteoporosis
- Lower immunity hence more infections
- Diabetes Mellitus
- Dementia and Alzheimer's Disease
- Hypothyroidism
- Constipation
- Hypermobility and joint problems
- Teeth/Dental problems
- Coeliac
- Spinal problems
- Cardiac difficulties
- Epilepsy

	Thyroid Function Test
Č	Cardiovascular examination
	Sleep discussion, including somnolence. Possible sleep apnoea assessment if indicated.
	Throat and neck examination
	Vision and hearing check (or confirmation these are being checked)
	Immunisations – including Influenza and Pneumococcal Vaccination
	Communication needs
	Medication review
	Lifestyle factors such as smoking, alcohol consumption, nutrition and exercise
	Sexual health (Appendix 13)
	Foot care
	Continence
	Weight, height, blood pressure and heart rate
	Mental health and emotional wellbeing, including mood and anxiety
	Well woman awareness: cervical and breast care screening (Appendix 13) Well man awareness (testicular and prostate health
	Consideration should also be given to the carer's health and wellbeing.

Be aware that signs of infection present differently in people with Down's Syndrome. Appendices 9 and 10 contain supporting Sepsis and infection information. The Sepsis Trust offer an online training package Sepsis for Learning Disability Care Workers | The UK Sepsis Trust

What the Community Team for Learning Disability (CTLD), adults can offer.

The community learning disability team work systematically as a multi-disciplinary team. We work with clients, carers and family in different environments including the family home, day service, supported living and residential settings. The health professionals in the team offer training to internal and external sources to support care of clients.

Psychology

- Talking therapies e.g. loss, negative experiences
- Anxiety management
- Anger management
- Mood problems
- Psychometric testing
- Positive behavioural support plan
- Psycho education
- Relationships
- Supervision and consultation
- Assessment and formulation
- Reminiscence work i.e., memory books, life story work (completed by carers and families following signposting to resources and tools

Occupational Therapy

- Moving and handling assessment
- Postural management
- Specialist seating
- Developing independence
- Sensory profile
- Environment adaptations
- Equipment provision
- Volunteering or employment
- Personal care
- Daily living skills assessment
- Positive behavioural support plan
- Visual supports e.g., daily routine, activity plans
- Meaningful occupation
- Budgeting
- Travel practice
- Behavioural interventions e.g., mindfulness, sensory strategies, anger management
- Assessment and interventions relating to leisure, social activities and education

Psychiatrist

• Medication management

Speech and Language Therapy

- Dysphagia assessment
- Dysphagia intervention
- Communication assessment
- Visual supports e.g., visual timetables, conversation books, visual aids
- Communication passports
- Communication and behaviour work
- Intensive interaction
- Reminiscence work i.e., memory books, life story work (completed by carers and families following signposting to resources and tools
- Carer support and advice
- Communication friendly environments
- Staff training
- Advance care planning
- Positive behavioural support plan
- Family/systemic Therapy

Physiotherapy

- Mobility assessment
- Postural management
- Transfers
- Seating
- Exercise advice
- Tone management
- Abdominal massage for chronic constipation
- Falls assessments.
- Chest care at end of life
- Positive behavioural support plan

Epilepsy

- If seizures are suspected we provide assessment, diagnosis and treatment of epilepsy from specialist nurses and consultant neurologist.
- Each individual will have individualised epilepsy management plans which if required will include rescue medication.

- We look at medication management and optimisation providing ongoing support and advice for carers and families as appropriate to the individual.
- Epilepsy awareness and administration of rescue medication training is available for carers if required.
- We also work closely with our colleagues in palliative care to manage the individual's epilepsy at the end of life as there can be complex adjustments required to medications.

Nursing

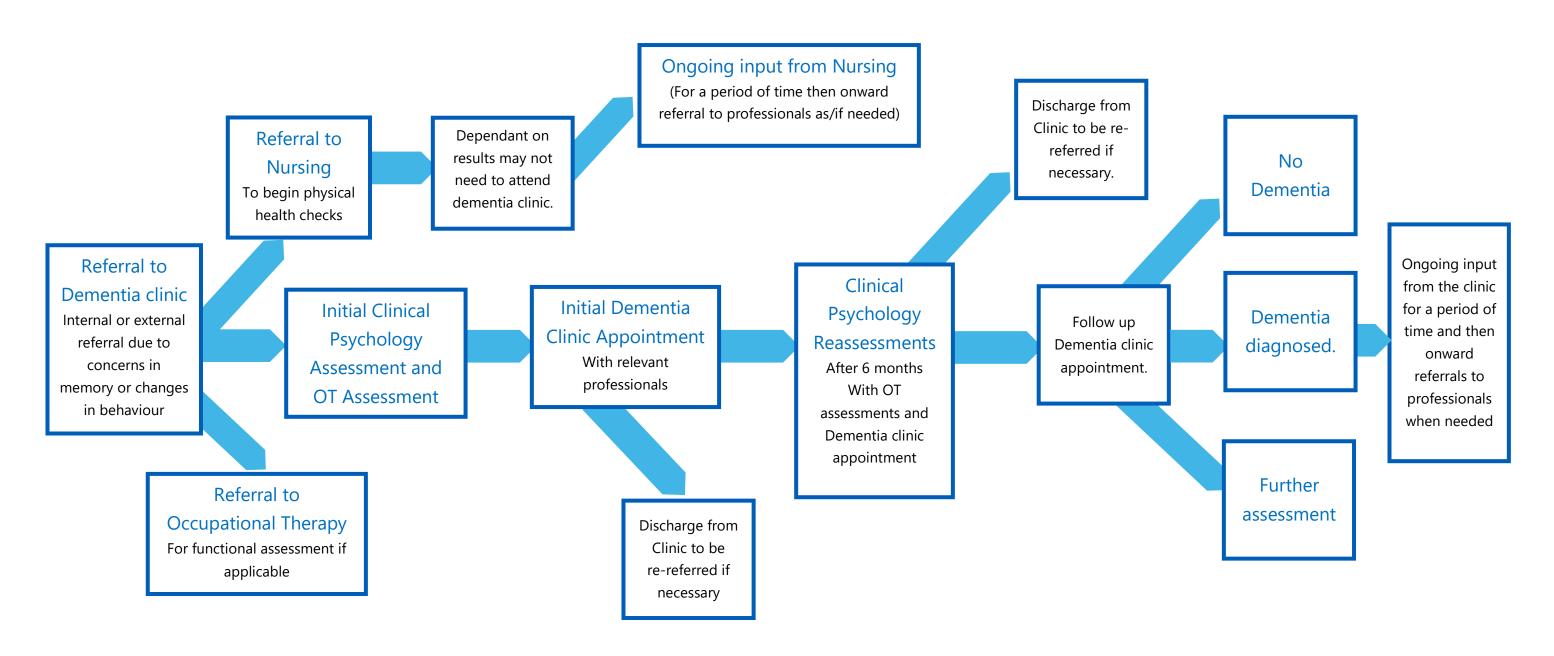
- Health screening: routine and as part of the national screening programs
- Health Facilitation: health action planning
- In depth nursing assessments: to consider holistic needs and strengths.
- Health promotion of any relevant health issues, inclusive of addressing health inequalities and making reasonable adjustments
- Total bowel management assessments
- Functional analysis of behaviour
- Positive behavioural support plan
- Relationship guidance
- Anger management
- Training for families, carers, providers and individuals re: health related topics
- Advocating for individuals
- Joint working with other health, education and social care as part of young person's education and health care plan when in transition
- Medication optimisation
- Desensitisation in relation to treatments: dental, hospital, bloods and any health investigations.
- Interagency working within acute and primary care
- Social inclusion opportunities: friendship groups, RED disco, etc.
- Developing independence
- Continuing health care applications
- End of life support

IST

The learning disability intensive support team is a multidisciplinary team comprised of Occupational Therapists, Speech and Language Therapist, Nursing, Psychologist and Healthcare assistants. They typically work with complex clients who range of interventions aimed at supporting people in the community.

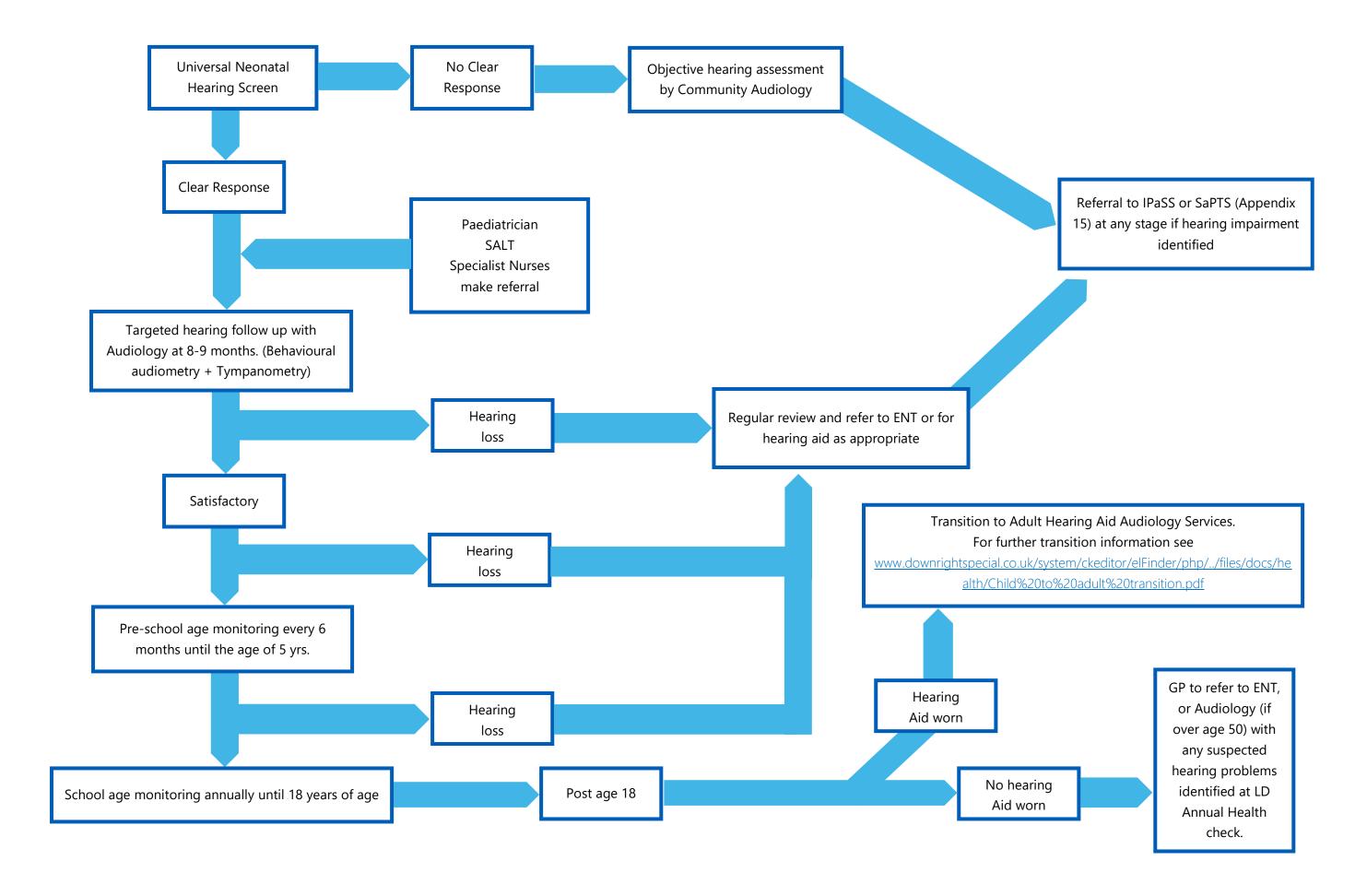
Hull & East Riding Down's Syndrome and Dementia Clinic

Multidisciplinary pathway for pro-active identification diagnosis and management of dementia for people with Down's syndrome



Prevalence rates increase to 30 - 75% in people aged 60 - 69 with Down's Syndrome (BPS 2015)

Appendix 1 – Children with Down's Syndrome. Hearing Care Pathway (also see Appendix 15)



Appendix 2 Guidelines for referral to Ophthalmology service

Children with Down's Syndrome are very likely to develop vision problems of one sort or another throughout life, so it is especially important that the visual behaviour of children is checked regularly. Look for signs of squint, nystagmus, change in visual behaviour with time and any other parental concern.

If in doubt - refer to Ophthalmology.

The recommended structure devised by Down's Syndrome Medical Interest Group (Down's Syndrome MIG) 2000 for ophthalmic screening is as follows.

Birth to 6 weeks

- Check visual behaviour.
- Check red reflex for congenital cataract and other congenital abnormality such as coloboma of the iris
- Refer urgently to ophthalmology if problem identified/suspected at this stage

3-month review

- Check visual behaviour and red reflex as above.
- Refer to ophthalmology if any concerns are raised

6-month review

- Check visual behaviour and red reflex as above.
- Look for presence of nystagmus either on fixation of target or when following
- Look for presence of squint.
- Ask about any parental concerns regarding visual behaviour.
- Refer to ophthalmology if any concerns.

1 year review

- Check as above.
- Problems with naso lacrimal duct may be a problem so consider referral for this if parents are concerned.

• At age 18 months an alert on system 1 to alert Health Visitors of need to refer to Orthoptic Screening for routine review. Attendance at a local screening clinic will be followed by a referral to an ophthalmologist regardless of outcome.

2-year review

- Check that referral to Orthoptic/Ophthalmic screening has taken place. If not, it is recommended that
 at this stage all children should be reviewed by an ophthalmologist for a fundus and refraction check.
 This assessment will also include an orthoptic assessment to check vision levels and presence of
 squint.
- Paediatricians and GPs can refer directly to ophthalmology.
- Health Visitors can refer to orthoptic screening following which the child will be referred on to ophthalmology

3- and 4-year review

- Checks as above including squint.
- Check that referral and attendance at the eye clinic has taken place.
- If unclear, then refer to ophthalmology.

Ongoing

Repeat vision test at least annually.

Appendix 3 Speech and Language

Care pathway for children with Down's Syndrome from birth to 18 years. (Transition to adult Speech and Language Service at 18yrs)

Referred to Speech and Language by parents or professional

Pre-school Service

Mainstream Service

Special School Service

Initial assessment of speech,
language and social
interaction/social communication
skills including a case history

Signposted to specialist SLT care pathway e.g., social communication or dysfluency

Parents/settings provided with advice, resources and recommendations (including Downright Special offer)

Signposted to training

Episode of care to be implemented by SLT/SLTA

Targeted interventions implemented by parents/setting following guidance of SLT.

Onward referral to other professionals e.g., Neurodiversity Service, audiology

Review planned by SLT or initiated by parents or setting

Transfer to "review on request" with clear guidance about how to re-access the service

Pathway provided by Speech and Language Therapy Service, December 2021

Sleep-related upper airway obstruction (SRUAO) or Sleep related breathing disorder (SRBD)

The RCPCH Working Party on Sleep Physiology and Respiratory Control Disorders in childhood reported that:

- Children with Down's Syndrome are at high risk of SRBD and nocturnal hypoxaemia, and the high incidence of congenital heart disease in these children makes the development of pulmonary hypertension a significant risk.
- SRBD may be difficult to identify on symptoms in this group.
- Adenotonsillectomy may have a lower rate of success but is still indicated.
- Other interventions including CPAP are effective but may be difficult to institute.

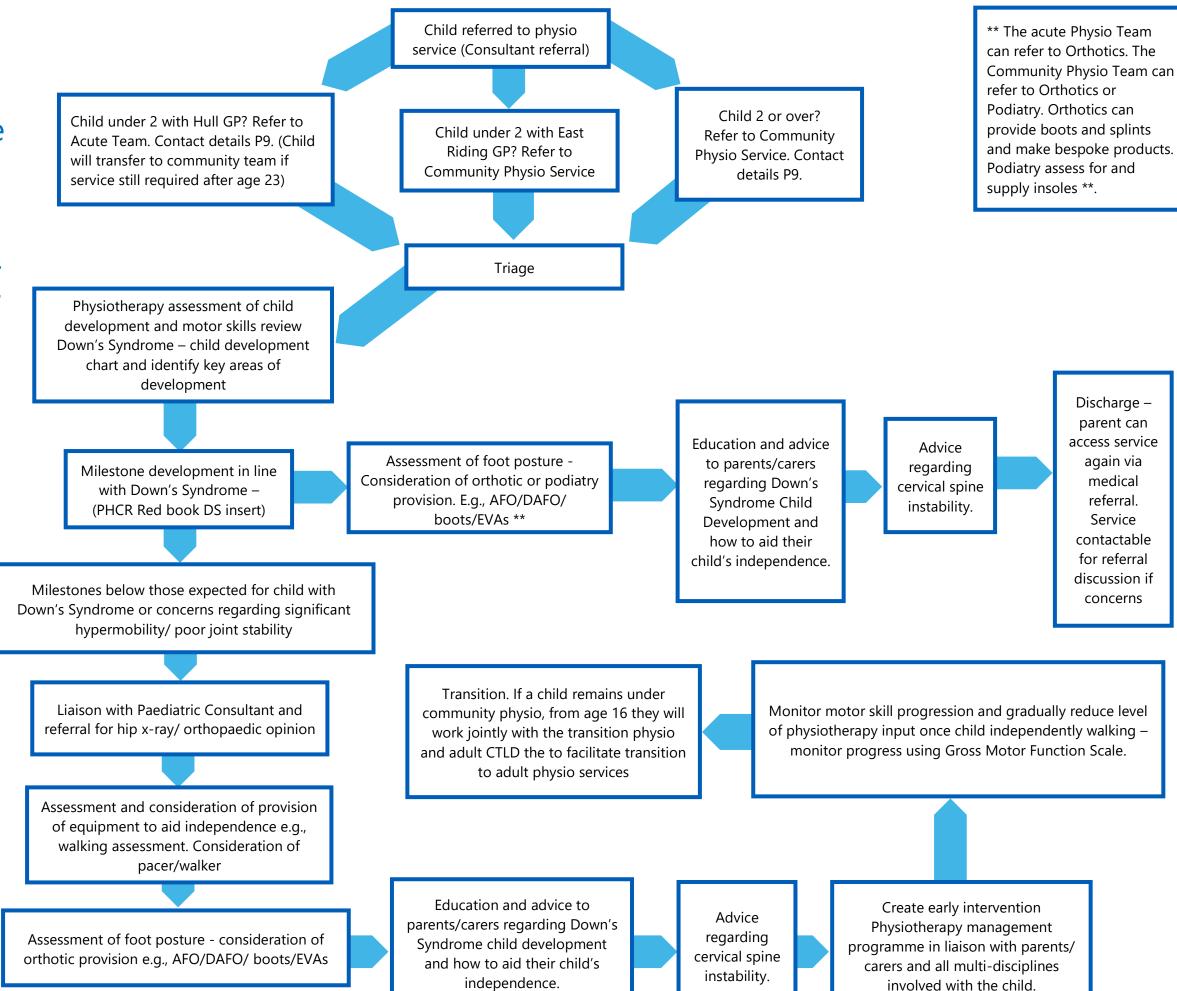
They recommended the following:

- All children with Down's Syndrome should be offered screening for SRBD, using at least oximetry; suggested screening ages are at least once in infancy then annually until age 3-5 years.
- Children with Down's Syndrome with abnormalities on screening for SRBD, or where there is a clinical suspicion of a false negative screening test, should have polysomnography, including oximetry, airflow, effort and CO2 measurement. Video should be included if possible.
- If significant SRBD with hypoxia is present in children with Down's Syndrome, then appropriate treatment should be offered.
- Further research is needed on the benefits and risks of screening for SRBD and Down's Syndrome.
- It is acknowledged in the report that "there is no evidence about how long screening should continue in these children". We have arbitrarily taken 3-5 years as including the period of highest risk of OSA. If screening tests are negative up to this age it would seem reasonable not to undertake further tests subsequently unless there are suggestive symptoms.

Symptoms to consider include:

- Snoring
- Sleep disturbance
- Mouth breathing and halitosis.
- Restless sleep
- Chronic rhinorrhoea
- Subcostal and sternal recession
- Odd sleep positions, such as hanging over the bed or sleeping upright with head extended to optimise the upper airway
- Swallowing difficulties
- Recurrent upper respiratory tract infections
- Nausea and vomiting
- Daytime sleepiness
- Persistent or secondary enuresis
- Nocturnal sweating
- Cyanosis
- Apnoea

Down's Syndrome
Physiotherapy
Pathway
For Community &
Acute Services for
Children



Down's Syndrome Occupational Therapy Pathway (children)

Large size buggies and wheelchairs are provided by Wheelchair Services. Referral to Wheelchair Services is via OT/Physio (if under their care) or by GP otherwise Child referred to community OT via GP, Consultant, Speech and Language Therapy or Physiotherapy

Referral screened according to service criteria

Referral accepted and placed on departments waiting list if it meets the service referral and priority criteria

Occupational therapy assessment of child's level of development and functional skills

Milestones (PHCR Red book DS insert) below those expected for child with Down's Syndrome e.g., child unable to sit to bathe/eat/play or mobilise independently

OT intervention includes goal setting, assessment and recommendation for specialist equipment and strategies to assist with positioning, development of sitting and parents with moving and handling bathing, feeding etc.

Education and advice to parents/carers/nursery/school on how to promote development of their child's functional independence skills

Liaison with other professionals involved Early Support meetings or contributing to EHCP

Implement Occupational Therapy advice in liaison with parents/carers and all professionals involved with the child.

Review OT intervention and goals/ equipment

Discharge at the end of the episode of care when OT input no longer required. Parent can access service again via GP, Consultant, Physio or Speech and Language Therapy referral. Parents can contact the service directly for advice

Referral not accepted as fails to meet criteria (e.g., child meeting expected DS milestones, functional difficulties rather than physical). Referrer informed or signposted to another service e.g., Wheelchair Services **, Local Authority OT.

All referrals received are carefully considered. Advice and signposting to other services or to useful resources will be made. OT Service advises parents to always ask Consultant/GP/Physio/SLT to refer if they think OT could benefit their child.

Version 5 March 2023

Appendix 7 - Downright Special Service Provision

Downright Special is a charity which provides support to families with children and young people with Down's Syndrome in Hull and East Yorkshire as follows:

Antenatal support

- Our information packs are stocked in the Antenatal Clinic at Hull Royal Infirmary, Women and Children's Hospital, for distribution to families with an antenatal diagnosis of Down's Syndrome, or those with a high probability of diagnosis. Packs can also be downloaded from our website.
- Our volunteers are available to talk to families in such a situation, if required.

Neonatal support

- We are involved in providing training to midwives, neonatal nurses and Paediatricians regarding early support and communication of diagnosis.
- Our new baby information packs are available to all families with new babies who happen to have Down's Syndrome. These include leaflets regarding Downright Special and information provided by the national Down's Syndrome Association.
- When and if families wish, our volunteers can make contact to provide information and peer support.

Health

- Our Health Lead is able to offer 1:1 evidence-based advice and support with health-related matters by phone, online or face to face at group sessions
- Families of children with specific health needs (e.g. heart conditions) can be put in touch with other families with similar experiences
- A directory of Down Syndrome specific health, education and social service provision is provided to parents of children 0-18 months. A link to the directory can be found on our website
- We work with parents to create a bespoke Hospital Passport document for their child to aid communication in times of emergency
- We have a template letter to assist families requesting their child be added to the Learning Disability Register
- We provide information and signposting to support young people to access GP Annual Health check from age 13.5 yrs.
- With parental consent we can facilitate adding an alert highlighting a child has Down's Syndrome on Hull Royal Infirmary children's Emergency Department's electronic system
- We deliver training sessions for parents and professionals and work closely with members of the speech and language therapy team, who also visit our educational sessions to enable sharing of best practice.

Early Years Support

• Our Downright Special Friday sessions are for children from birth to 5 years old and offer a chance for parents to meet and to enjoy their babies in a relaxed environment.

• Through our baby group we provide an introduction to signing, speech sound production, communication skills and sensory stimulation.

Education

- Our specialist teachers provide support to children, teachers and teaching assistants in pre-school, primary and secondary school settings. This includes advising on annual reviews, special educational provision and target-setting for Individual Education Plans (IEPs).
- Schools are provided with an education pack which includes valuable resources used to support the specific learning profiles of children with Down's Syndrome.
- We deliver training to teachers and teaching assistants regarding specific techniques used in teaching children with Down's Syndrome.
- Each Friday our specialist teachers deliver targeted small group lessons within our group session.

 These have the added bonus of providing on-going training and support to parents and teaching assistants.

Social

- We host regular social activities for the whole family to allow children and young people with Down's Syndrome, siblings and parents an opportunity to interact in a relaxed environment.
- Our Friday group session includes both structured and unstructured time for children to develop their social and play skills and for parents to meet other parents.

Information

- Our website provides information regarding a number of issues important to families with children with Down's Syndrome.
- We have an active private Facebook group for parents as well as a Facebook page, Instagram, X/Twitter and LinkedIn accounts which provide information to the wider public.
- We have books and resources available to borrow through our online library
- We provide advice, advocacy and support to families in person, over the telephone, by email or social media. We can provide qualified support in applying for DLA and PIP

Referral Pathways to Downright Special

- Families can register with us, either via telephone (01482 420160), email (enquiries@downrightspecial.co.uk) or via website https://www.downrightspecial.co.uk/contact-us
- Those with an antenatal diagnosis can be referred by the antenatal clinic.
- Referrals are made with permission from the family by any health or education professional by phone, e-mail or online using the referral form https://www.downrightspecial.co.uk/contact-us

* Local Children's audiology exceeds recommended schedule below (see Appendix 1)

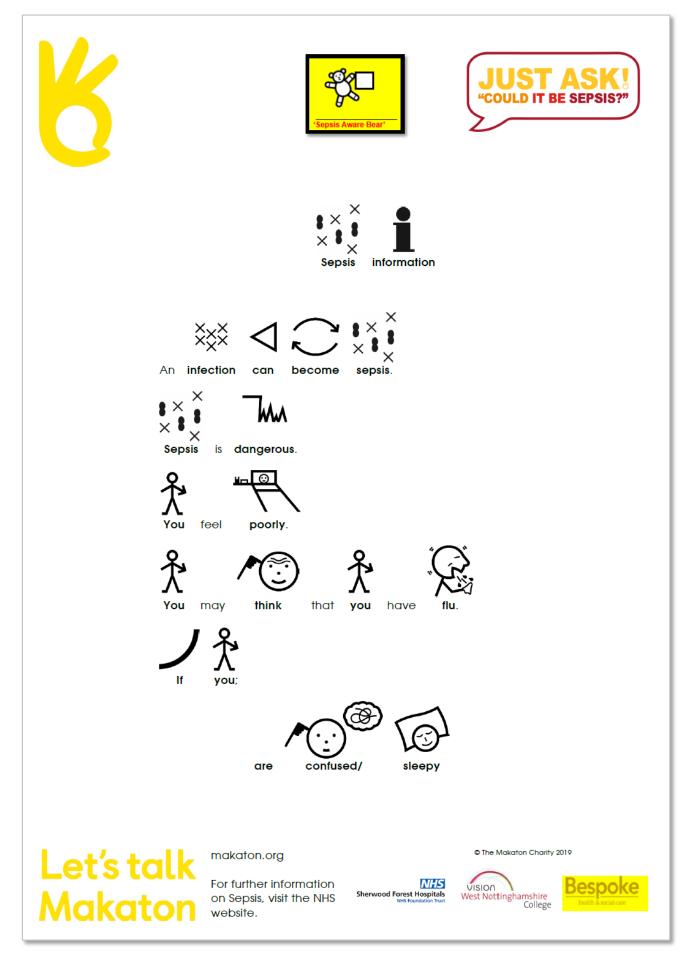
DOWN SYNDROME - SUGGESTED SCHEDULE OF HEALTH CHECKS

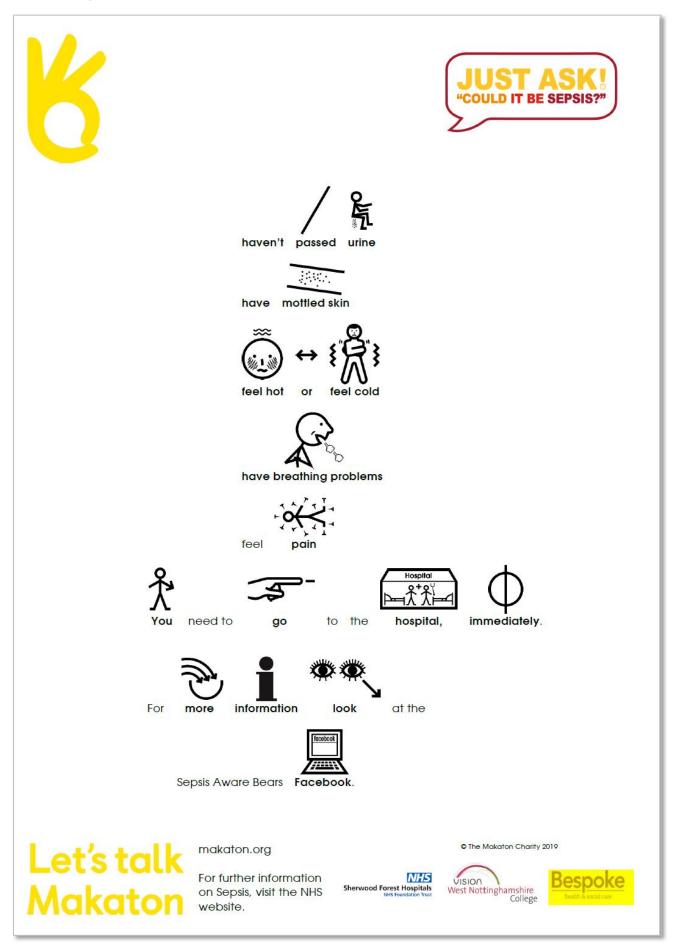
The following are suggested ages for health checks. Check at any other time if there are parental or other concerns.

	Birth - 6 weeks	Special checks under 2 years	Preschool checks	School age
Thyroid blood tests	Newborn routine heel prick - blood spot test	clinically indicated:	every year from the age of 1 cluding thyroid antibodies <u>or</u> 1	
Eye checks	Newborn routine check including congenital cataract check	Age 18-24 months: Formal eye and vision examination including check for squint, and refraction for long or or short sight	Age 4 years: Formal eye and vision examination including check for squint. Refraction and assessment of near and distant vision and visual acuity	Repeat vision test every 2 years, or more frequently if recommended by optometrist or ophthalmologist or if concerns
	Visual behaviour to be monit	ored at every review particula	rly in first year	
Hearing checks	Universal newborn hearing screen	Full audiological review by 10 months including hearing test impedance check	Annual audiological review or more frequently and if indicated 2 yearly audiological review or more frequently if recommended	
Growth monitoring	Length, weight and head circ checked frequently and plott growth charts	recumference should be ted on Down syndrome Height and weight should be checked and plotted on Down syndrome growth charts at least annually (BMI checked if concern regarding overweight)		charts at least annually
Heart checks	By age 6 weeks, formal heart assessment including Echocardiogram	At all ages low threshold fo signs or symptoms develop	r reviewing heart status if	From adolescence onwards as part of routine health checks listen to heart for signs of acquired heart disease
Breathing checks	Screen with an overnight pu	uneven breathing during slee lse oximetery once in infancy a threshold for detailed sleep st	and yearly until the age of 5,	
Blood checks	Within the first three days of life, full blood count and blood film to check for a serious blood disorder	If blood film is abnormal trea may be required	atment or monitoring	

Detailed recommendations for Medical Surveillance Essentials for children with Down syndrome can be found at www.dsmig.org.uk

Appendix 9 – Makaton resources to support Sepsis management.





DOWN SYNDROME

Taken from the Down's Syndrome PCHR (Red book) Page 16.

A5-Downs-charts.pdf (healthforallchildren.com)

Most kids with Down's Syndrome (trisomy 21) have some physiological and behavioural differences that make it difficult to assess how sick they actually are.

1. Poor temp control:

may not develop a fever at all, or may be hypothermic instead

4. Co-morbidities common

Remember cardiac problems, GORD, coeliac and autism (& don't forget the drug history)

2. Weak immune system:

Infections that usually cause only minor illnesses can be dangerous to kids with DS. Amy (in the photo below) spent a week ventilated in PICU when she had chicken pox!

3. Mottle easily:

Kids with DS have poor control of SVR, and get mottled ("corn beefy") with temperature change as well as sepsis, making assessment tricky.

5. Leukaemia is more common

and may present atypically

kids with Down's Syndrome

Top tips for triaging & treating

6. Ask what's normal for this individual child

Assessing levels of alertness, responsiveness, tone etc. can all be difficult if you don't know the individual child at baseline. Ask parents: they know their child best!

9. Beware of atypical presentations of serious illness

Sepsis can present atypically (as well as leukaemia, see #5) - e.g. chest infections/ pneumonia with sepsis presenting as D&V

7. Narrow tubes, thicker mucus

Kids with DS get more chest & ear infections, and generally produce more snot!

8. Explain and reassure

Kids with DS often have sensory processing difficulties and can be very wary of new sensations: BP cuffs and sats probes may be terrifying. Take time to explain and reassure.

10. Optimise communication strategies

Speech & language development lags behind understanding, so kids with DS often understand more than they can express. They're often great visual learners (but have poor short-term auditory memory and fluctuating hearing loss) so use sign, pictures and gestures. Speak slowly, clearly and maintain eye contact. Allow for sensory processing delay of several seconds: don't hurry a reply

Keep calm! Just don't forget the extra chromosome



© Elizabeth Herrieven - @Lizjl78 (EM consultant & mum of Amy) & Linda Dykes - @mmbangor (EM Consultant & GP) Produced as a #FOAMed resource by Bangor ED, North Wales. Please *do* share and use, but maintain source credentials.

INFECTION ALERT

This page has been included to highlight to health professionals and parents/carers that children who have Down syndrome may respond differently to infections and need special consideration.

If you are worried that your child may have a serious infection please seek medical advice and show this page.

Children who have Down syndrome are more vulnerable to serious infections and may present atypically. They may not 'appear' to be unwell, so checking with their parents/carers about what is usual for them is important.

If a child who has Down syndrome presents with a possible infection, have a low threshold for:

- Suspecting serious infections such as sepsis or pneumonia and seek prompt paediatric advice
- . Starting antibiotics and continuing them for double the length of time, e.g. 10 days instead of 5 days
- · Arrange to review the child, if a viral infection is diagnosed and antibiotics are not commenced.

Please offer the recommended universal immunisations as well as, the Flu vaccine every year from the age of 6 months and the Pneumovax II at the age of 2 years.

16 Down syndrome insert © DSMIG 2020

Appendix 11 – Children's Continence Service (constipation)

Constipation symptoms identified by GP / Consultant or other health professional

Referral form to be completed including checklist. See right

Referral received through admin with checklist

Triage by registered nurse within one working day

Accepted by triage

Rejected by triage does not meet criteria – see checklist. Letter / task to referrer explaining reasons for rejection.

Telephone appointment made by nurse and appointment letter sent by admin.

Triage appointment within 9 working days of date of referral

Telephone assessment performed and plan of care discussed, and appointment made for full initial assessment in nurse led clinic.

Child assessed in nurse led clinic. Following NICE Guidelines CG99 (NICE 2010) NICE Constipation in Children & Young People: Diagnosis and Management Pathway

https://pathways.nice.org.uk/pathways/constipation

Following initial assessment child to be reviewed by registered nurse in 4-6 weeks. Subsequent follow-ups at 6-week intervals unless closer monitoring required

If toileting support identified CCN referral form to be completed for support to be offered by health and development practitioners

If after following the pathway, there is no improvement care to be discharged to the GP with a letter asking for referral to consultant for further investigation

Appendix - Constipation Checklist

CONTINENCE SERVICE CONSTIPATION CHECKLIST

D.O.B: _____

The service will only	accept referrals for cl	hildren with the	e following criteria:	

	Please Tick
The child is over 2 years old	
The child has received a diagnosis of constipation	
The child has been examined by GP or consultant to rule our organic cause for constipation.	

Prior to referral to the Community Nurse-led Constipation Clinic, the referrer should have completed the checklist below. Please include this checklist with the referral and tick off each box when completed.

Advice has been given to parents/child/young person (if appropriate) to take 6-8 glasses of water/juice (not milk) a day, totalling 2 pints of fluid. Higher intakes of total water will be required for those who are physically active or who are exposed to hot environments. It should be noted that obese children may also require higher total intakes of water.	YES / NO
Adequate fibre has been introduced into the diet. Foods with a high fibre content (such as fruit, vegetables, high-fibre bread, baked beans and wholegrain breakfast cereals) have been discussed.	YES / NO
Advice has been given about the importance of daily physical activity that is tailored to the child or young person's stage of development and individual ability as part of ongoing maintenance in children and young people with idiopathic constipation.	YES / NO
Advised on correct sitting position and implemented a 'good sitting routine' using sticker/reward charts where appropriate.	YES / NO
Ensured the family have kept a diary of diet and bowel movements for at least two weeks (attached)	YES / NO
Child has been examined by the GP / Consultant or suitably trained health professional .(To include neurological examination, spine, abdominal and perineal area) as per Nice clinical guidelines table 3.to rule out underlying causes for constipation Should be commenced on Movicol Paediatric Plain on a maintenance dose and taken regularly.	YES / NO

Appendix 12 – GP Learning Disability Register.

What is learning disability?

The definition of learning disability (LD) can be found here <u>Learning disabilities - NHS (www.nhs.uk)</u>. A LD is not to be confused with a learning difficulty. This refers to differences affecting academic performance such as dyslexia <u>Learning difficulties | Mencap</u>. Down's syndrome is a common cause of learning disability (LD).

What is the register?

The Learning Disability Register (also known as the QOF Register) records those with LD registered with each UK GP practice. It aims to ensure complete and accurate knowledge about LD in the UK is developed. The information will give a clearer indication about the prevalence and demographics of the lives and deaths of people with LD. Better data should lead to improved planning, commissioning, funding and provision of health and social care services for people with LD in future. It is estimated that there are 1 million people in the UK with LD, only a fifth are currently on the register.

Why be on the register?

- The register helps GP practice staff identify in advance patients who might need extra help or support to access care. The needs of your child/adult when using health services can be discussed. For example, do they need longer appointment times? Or to attend at quiet times? Or to be given Easy Read information about a procedure? These measures are known as "reasonable adjustments" NHS England » Reasonable adjustments. Health services have a duty to make care accessible in this way.
- People with a learning disability are entitled to an Annual Health Check when they reach age 14. annual health check NHS NHS (www.nhs.uk) . If a person is on the register, they will be invited for this from age 14. Most (but not all) GPs offer this service. Link provides additional information about Annual health checks. https://www.chcpcic.org.uk/chcp-services/wellbeing-service/pages/annual-health-checks
- Being on the register helps to raise awareness and improve future health care for everyone with LD by contributing to more
 accurate data collection.
 - Joining the register when young means adjustments and support are established before the person starts using adult services.
- Being registered should mean an automatic invitation for a flu vaccination each year.
- Parent/carers or siblings can be identified by the practice as carers. The LD register has been used to identify those eligible for the COVID vaccine.

How do I get my loved one on the register?

Phone your GP (or receptionist) to check whether they are on the LD Register. If not, then simply ask for them to be put on. If you prefer to write or e-mail your GP to request placement on the register, there is a template letter on the Downright Special website https://www.downrightspecial.co.uk/resources to which you can add your own details. The doctor may have recorded that a person has Down's syndrome, but this does not automatically mean they are on the register. You can join the register at any age. If the person is 16 or over, they must consent. Mencap have a template Easy read letter which a young person can use to make their own request to the GP along with lots of accessible information around this topic for the young person to look at. https://www.mencap.org.uk/advice-and-support/health/learning-disability-register. If your child is 16 + and you feel they do not have capacity to consent to being placed on the register, you can discuss with your GP about making a best interests decision on their behalf using the Mental Capacity Act (2005).

Down's Syndrome Pathway – Hull & East Riding Page 27

Appendix 13 – Learning Disability Gynaecology Clinic.





Learning disability Gynaecology Clinic



Every 2nd
Wednesday
of the month
8:30am 12pm noon

conifersexhealth.co.uk





How to get a referral

You can be referred by your doctor, or by contacting 01482 247111.

When: Every 2nd Wednesday of the month, 8:30am - 12:00pm noon.

A support worker will contact you to get a little bit more information and make sure you get an appointment that is right for you. You will be then sent some handy information about the appointment to make sure you don't forget.

Don't worry if you need a little extra time in the clinic, our team are friendly and caring, and more than happy to help.

For further help or information

Visit conifersexhealth.co.uk

City Health Care Partnership CitC is an Independent for better profit and co-owned Community Interest Company responsible for providing local health and care services. Registered in England No: 06273905.



Appendix 14. Hull (IPHNS) & East Riding (ISPHN) 0-19 Service (health visiting and school nursing)

Intensive support pathway Child with Down Syndrome placed on a Health Visitor's

early years specialist caseload

Family *may* have additional visits to the core contacts (left). These would be on a **NEEDS LED** basis up to age 2.5 and agreed with family and/or other services at each contact.

Additional support may be needed around parents' emotional health, seeking Social care support, feeding, developmental delay or sleep

IN EAST RIDING

Core contacts.

Contact= See a member of the

HV Team face to face

Antenatal contact

From 28 wks. of pregnancy

Birth visit Day 10-14

6-8 week review

1 yr. review

2 yr. review Between 2-2.5yrs

Healthy Child Programme

Pathways in Hull and ER align with the Healthy Child Programme nationally.

https://www.e-lfh.org.uk/pathways-healthy-child/

Early visit actions

Down syndrome specific "red book" (PCHR) green insert provided to family.

Section 23 notification made to Local Authority with a view to requesting portage input (n.b other health professionals can also action this)

IN HULL

Core contacts.

Contact= See a member of the HV

Team face to face

Antenatal contact

From 28 wks. of pregnancy

Birth visit
Day 10-14

6-8 week review.

1yr review

2 yr. review Between 2-2.5yrs Health Visitors can be contacted between contacts for advice/support Monday to Friday 8.30 –5pm 01482 259600 Text Parentline 07312 263206



Child Health clinics- please drop in. Follow us for times and places.



Occasionally family *may* require additional visits to the core contacts (left) up to age 2.5.

These would be on a **NEEDS LED**, targeted basis and agreed with family/social care/ health visitor (usually antenatally).

2.5-5yrs

Request support from Health visitor via single point of contact (Page 7) for support with e.g. development, sleep, behaviour, feeding, toilet training, Child remains on Health visitor's early years specialist caseload until school entry

5-25 yrs.

Request support from School Nurse via single point of contact 01482 689689 support up to age 25 (with EHCP) for any public health need e.g. Sexual health advice, PHSE work, Hygiene, diet/weight, emotional wellbeing (low level), continence

2.5-5 yrs.

Request support from health visitor via single point of contact 01482 259600 OR Text Parentline 07312 263206

5-25 yrs.

Request support from School Nurse via single point of contact 01482 259600 for any public health need e.g. Sexual health, PSHE, Hygiene, diet, weight, emotional wellbeing, continence. Young people from 11-19 years (25 with EHCP) can text Chat health 07312 263199 or

Appendix 15 IPaSS (Integrated Physical and Sensory Service; Hull) and SaPTS (Sensory and Physical teaching Services; East Riding).

HEARING

Support Service for Deaf Children

0-18 mths.

Referral by audiology (Appendix 1) or Local Authority if move from out of area, after newborn hearing screen with no clear response to support with modes of communication and assess/monitor development

18 mths-School age.

Referral by audiology following routine scheduled testing/hearing aids advised (Appendix 1).

Support as above & to monitor use of hearing technology/equipment. Support to child's EYFS setting, with resources, awareness training and monitoring

School (Key stage 1/2/3)

Referral by audiology, Local Authority or educational setting. Deaf awareness training for staff support to parent/child and staff with modes of communication. Monitor development and use of hearing technology/equipment

VISION

Vision support Team

Visual impairment is impairment that glasses don't correct. Can be diagnosed by an ophthalmologist, or be a visual difference that is affecting access to education

0-18 mths.

Referral by Eye Clinic, GP, other health professional or parent if additional Visual impairment needs. Support teacher to assess and advise/support/provide resources to parent.

18 mths-School age.

Referral by Eye Clinic, early yrs. setting, school EYFS, GP, other health professional or parent if additional Visual impairment needs. Support teacher to assess and advise/support/provide resources to parent and setting e.g. Large print

School (Key stage 1/2/3)

Referral by Eye Clinic or school if additional Visual impairment needs. Support teacher to assess and advise/support/provide resources parent and school e.g. Large print

PHYSICAL DIFFICULTIES

PD Team

From age 2yrs (SaPTS only)

Referral by Early yrs. setting (inc. private nursery and childminders) to support curriculum access. Health professionals can refer however referral from setting advised for maximum effectiveness as support is setting focussed. Children with Down Syndrome automatically meet criteria for SaPTS PD Team involvement

Early Yrs. Foundation Stage and Key stage 1 (SaPTS & IPaSS)

Referral by EYFS stage setting e.g. nursery/school to support curriculum access e.g. work recording, motor skills, supporting safety of pupils and staff (e.g. moving/handling). Nb Health professionals can refer however referral from school/nursery advised for maximum effectiveness as support is setting focussed.

School (Key stage 2/3)

Referral by school to support curriculum access e.g. work recording, and access to PE and other practical subjects

Discharge and transition

Support at Key stage 4 /FE college or a social care (educating) setting provided up to 25 if needed/EHCP in place and need remains. Service no longer involved after a young person leaves education. Level of support is determined annually against eligibility criteria. Support ceases when person no longer meets the criteria for further support, for example when the person's physical needs improve sufficiently and/or are being met as well as possible in the setting.

Support is based on individual need. Children with Down Syndrome may receive support with either all, some or none of these three areas. Anyone can contact the services to ask whether a child/YP may be eligible for support or to determine whether support will be via IPaSS or SaPTS (this can vary a little depending on location of setting/home address and/or team/s providing support). https://ipass.org.uk/index.html. Sensory and Physical Teaching Service (SaPTS) (eastridinglocaloffer.org.uk).

Appendix 16. Hull & East Riding early years support (Including Portage)

Signposting or

wider package of

social care support if other family needs

identified.

HULL CITY COUNCIL

Early Years Access & Inclusion Team (EYAIT)

EAST RIDING OF YORKSHIRE COUNCIL

Early Years Support Team (EYST)

After birth (or later diagnosis) Health Visitor notifies EYAIT (Hull) or EYST (ER) of child's Special Educational need. (Section 23). Child moves into area: Health Visitor or setting notifies the EYAIT of child's Special Educational need.

Child allocated to a "Pod" of professional support (Area SENCO, Inclusion & Support Officer, Portage Home Visitor). Portage take lead for child under 2.

Portage home visitor makes contact with family. Makes assessment of need for package of support.

Portage offered on needs-led basis and regularly reviewed. e.g. 6 portage sessions then re-assessment

Child reaches age 5: discharge from Portage (may be earlier, needs led). Child accesses setting (nursery, pre-school, childminder etc) Portage support setting with transition/inclusion then discharge.

Pod continues to support setting with inclusion e.g. financial support, staff training, access to enhanced provision setting if need, TAF meetings for transition planning, EHCP request, finding/choosing education setting, reviewing progress.

EHCP Process starts based on need (not age dependent). Recommended that at least 2 terms of evidence available (from setting/portage) to inform EHCP. EHCP funding not needed to support/include a child in Early Years settings (Early Yrs. inclusion fund)

Child in Foundation (F2) at school (mainstream/special, regardless of chronological age). EYAIT support transition to school then discharge. Ongoing support provided by school.

The EYST (including Area SENCO and Portage) identify a lead practitioner, advise/support with transition to early years settings (e.g. nursery, preschool and childminders) and support settings with strategies to support inclusion/additional inclusion support funding. Support from EYST ongoing until the term after child turns 5. Each ER Children's Centre has a SEND link worker who can be a point of contact for advice and support on what is on locally

EYST liaise with wider services inc. Children's Social Care, SaPTS, SALT and Continuing Care team if further support needs identified.

EYST offer up to 12 sessions of Portage if child meets criteria. Portage sessions can be accessed at any time up to child starting school (timing agreed with Portage Worker during Next Steps Discussion). Portage Stamp of Approval settings and parents accessing the Portage Workshop also discussed. Link to Portage page on East Riding Local Offer.

https://www.eastridinglocaloffer.org.uk/portage/

EHCP process starts when family and supporting professionals agree appropriate and there is sufficient evidence to support EHCP request. EHCP does not need to be in place to access Early Yrs. education setting (setting accesses additional inclusion Support funding).

EYST advise and support around transitions to early years settings and reception year at school and a full transition guide is available at every setting in East Riding. Link to EYST information & referral form. https://www.eastridinglocaloffer.org.uk/early-years-support/.

The 0-25 SEND Team support children and families with an EHCP in place and who require support with coordinating services. They also review social care packages of support when in place. Link to the 0-25 SEND Team online referral form

https://www.eastridinglocaloffer.org.uk/directory-entry/?entry=0 25 send team

Health professionals/bodies have a legal duty (Section 23 of Children and Families Act 2014) to notify Local Authority of any child under statutory school-age (5), who they consider may need extra arrangements when starting school and has special educational needs or disability (SEND). All children in receipt of DLA eligible for 15 hrs funded childcare from age 2 (term after).

References and Acknowledgements

The development and ongoing maintenance of this pathway has been facilitated with the support of the following people, services and organisations.

Helen Chamberlain – Principal Physiotherapist Humber Teaching NHS Foundation Trust (HTFT)

Vicky Ingram-Paediatric Physiotherapist (HUTH).

Dr Joanna Preece – Consultant Neonatologist, Hull and East Yorkshire Hospitals Trust (HUTH)

Vicky Abbott – Parent

Janette Waddingham – Parent

Anna Daniels – Clinical Trainer, City Healthcare Partnership (CHCP)

Gillian Bowlas – Manager, Downright Special

Samantha Findlay (RNLD) - Health Lead, Downright Special

The Parents and Carers of Downright Special in original focus groups and consultation

Laura Jones – Parent Forum Manager, Yorkshire & Humber KIDS

Suzanne Nichols - Lead Primary Care Liaison Nurse, Wellbeing Service (CHCP)

Claire McGregor-Hull CTLD (HTFT)

Helen Hanson, Julie Robinson and Kathryn Alterskye – Speech & Language Therapists, (HTFT)

Community Paediatric Nursing Team in original focus groups, CHCP

Colin Hurst, Engagement Manager, NHS Hull CCG

Children's Occupational Therapy Team (HTFT)

Jill Atkinson - Antenatal and New-born Screening Co-ordinator (HUTH)

Dr Lorna Highet – Consultant Paediatrician, (HUTH)

Kate Woodrow – Community Paediatric Service (HUTH)

Philip Vokes-Head of Audiology (HUTH)

Andrea Wallace-Principal Occupational Therapist (Paediatrics) (HTFT)

Jennie Batty-0-19 Service (East Riding)

Louise Chadwick-Specialist Public Health Nurse for Children with SEND (Hull 0-19 Service)

Joanna Bailey-Early Yrs. Inclusion Officer (East Riding of Yorkshire Council)

Debbie Mitchell-Early Years Standards & Improvement Officer (Access & Inclusion), Hull City Council

Robert Grayson-(IPaSS)

Sarah Fox- Sensory and Physical Lead Teacher - HI & PD

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Developmental Journal For Babies and Children with Down's Syndrome

https://www.downrightspecial.co.uk/system/ckeditor/elFinder/files/docs/development/ES13-2010.pdf

https://www.downrightspecial.co.uk/system/ckeditor/elFinder/files/docs/development/ES49-How_To.pdf

https://www.downrightspecial.co.uk/system/ckeditor/elFinder/files/docs/development/ES49-Journal.pdf

Down's Syndrome Medical Interest Group Children's Centre City Hospital Campus Hucknall Road Nottingham NG5 1PB

Website: www.dsmig.org.uk

Down's Syndrome Association Langdon Down Centre 2a Langdon Park Teddington TW11 9PS

Tel: 0333 1212 300

Website www.downs-syndrome.org.uk

Parent support, and information on range of issues including health, education and legal.

Issues

Down Syndrome UK (DSUK)

Tel: 0330 111 2121

https://downsyndromeuk.co.uk/

Down's Syndrome Pathway – Hull & East Riding | Page 33

Glossary of terms, including abbreviations

0-19 Years' Service

Health Visitors and School Nurses Hull 019 IPHNS East Riding 0-19 ISPHNS

AFO

Ankle Foot Orthosis (brace worn on lower leg to support ankle)

Amniocentesis

Test carried out during pregnancy to assess whether the baby may have a genetic or chromosomal condition.

Annual Health Check (AHC)

From age 14 onwards someone with Down's Syndrome should have an Annual Health check and Health Action plan via their GP Practice

Audiology

Hearing team

Cardiac/Cardiovascular

Heart/ circulation/blood vessels

Cardiology

Department who deals with health of the heart

Cataract

clouding of the eye lens which can lead to a decrease in vision

CHCP

City Health Care Partnership https://www.chcpcic.org.uk/

Children's Learning Disability Team

Covers Hull and East Riding. Part of the Neurodiversity Service. Supports 0-18 yrs. with understanding and managing behaviours, emotional regulation and sexual safety.

Coeliac disease

Lifelong autoimmune disease caused by a reaction to gluten. It can cause diarrhoea, abdominal pain, bloating and the inability to absorb certain nutrients.

Continence

The ability to control bladder and bowel.

CPAP

Continuous positive airway pressure.

CR

Clear response
(Relating to audiology/ ear/ hearing)

CTLD

Community team for adults with Learning Disability (18+)

CVS

Chorionic Villus Sampling

DAFO

Dynamic Ankle Foot Orthosis (brace worn on lower leg to support ankle)

DSMIG

Down's Syndrome Medical Interest Group

Early Support Team

East Riding service that supports children with additional needs up to school age; includes Portage and Area SENCO.

ENT

Ear, nose and throat team based in the hospital.

EVA

It is a foam-based material, used for insoles.

FBC

Full Blood Count

FISH Test

Fluorescence in situ hybridization test (type of blood test)

Gestation

The length of pregnancy or amount of time a baby is in the uterus (A typical pregnancy gestation is around 38-42 weeks with 'full term' being classed as 40 weeks)

GOR

Gastroesophageal reflux – where acid from the stomach leaks up into the oesophagus (gullet).

HA

Hearing Aid

HUTH

Hull University Teaching Hospital NHS Trust (Services provided at Hull Royal and Castle Hill hospitals)

Hirschsprung's disease

Condition affecting the large intestine and causes problems passing bowel movements.

Hypermobility

Joints are flexible and easily move beyond expected range.

Hypothyroidism

Under active thyroid gland

ICB

Integrated Care Board (replaced CCGs)

Infant Feeding Co-ordinator

A professional who specialises in supporting people to feed their baby and advises on different feeding techniques and those who may require additional support.

Integrated Physical and sensory service (HULL). Appendix 15

Karyotype

laboratory test done on blood.

Makaton

language programme that uses signs and symbols to help communication. It is designed to support spoken language.

NCR

No Clear Response (Relating to audiology/ear/hearing)

NICU

Neonatal Intensive Care Unit

NIPE

New-born and Infant Physical Examination

Neurodiversity Service

The term neurodiversity covers both 'neurodisability' and 'neurodevelopmental' needs and conditions as defined by NHS^[1] and the National Institute for Health Research^[2]. Neurodiversity is the concept that when it comes to the human brain/nervous system, people don't all end up the same. In other words, it's a

The Hull and East Riding Children's Neurodiversity Service

(0-18 yrs.) includes the following:

- The Front Door Team: Autism (ASD) & Attention Deficit Hyperactivity Disorder (ADHD) assessment
- Children's Community Learning Disability Team (Hull and East Riding)
- Children's Humber Sensory Processing Service

The Neurodiversity service website provides up to date information for parents and professionals about seeking support or making referral Hull and East Riding Children's Neurodiversity Service (humber.nhs.uk)

Numicon

multi-sensory approach to teaching maths

OSA

Obstructive sleep apnoea

Osteoporosis

medical condition where the bones can become brittle and fragile.

IPaSS

concept that describes uniqueness in cognitive functioning.

 $^{^{[1]}}$ https://www.england.nhs.uk/wp-content/uploads/2013/06/e09-paedineurodisability.pdf

^[2] Informing the NHS Outcomes Framework: evaluating meaningful health outcomes for children with neurodisability using multiple methods including systematic review, qualitative research, Delphi survey and consensus meeting

Ophthalmology

Eye/vision team

OT

Occupational Therapy – a team who assess patients and provide therapy, and recommendations.

Oximetry test

test used to measure the oxygen levels in the blood. This may be done overnight as a 'sleep study' to see if the oxygen levels are dropping overnight (which could possibly be due to sleep obstruction or apnoea).

Paediatrician

Doctor who specialises in health of a child

PCHR

Paediatric Child Health Record. The "Red book".

There is a 30 pg. (green) insert specific to children with Down Syndrome that goes inside the red book

Physiotherapy

Team who looks at physical movement and function of joints, limbs, muscles, posture and core including strength, gait and balance.

Podiatry

Team who specialise in the assessment and treatment of feet, including their position

Portage

Home-visiting educational service for pre-school children with additional needs. In Hull the Early Years Access and Inclusion Team offer this service. In East Riding the Early Support Team

QFPCR

Quantitative Fluorescence-Polymerase Chain Reaction; laboratory test done on blood.

RSV

Respiratory Syncytial Virus

SALT

Speech & Language Therapy. Team advise on speech, communication and dysphagia (mechanical difficulties with eating and swallowing).

SaPTS

Sensory and Physical Teaching Service (equivalent to IPaSS in Hull). See Appendix 15

SCBU

Special Care Baby Unit

SEND

Special Educational Needs and Disabilities

SENDART (SEND Assessment and Review Team)

Local Authority Team responsible for statutory processes relating to Education, Health and Care Plans (EHCPs) for example the issuing of draft and final Plans, the annual review of plans, and related processes, for example, school placements.

SENDIASS

Impartial, confidential advice and support for parents, children and young people up to age 25 with special educational needs (Sendiass Service is provided by KIDS in Hull).

SLA

Speech & Language Therapy Assistant

TAM

Transient Abnormal Myelopoiesis

Thyroid

Thyroid gland releases important hormones that keep your body functioning at the correct speed.