Module Specification: Paediatric Assessment (newborn)
Version 1   FINAL

Purpose of this specification
This document makes explicit the knowledge and skills that are expected from an HTS candidate relevant to the scope of this module, and outlines additional elements needed to be completed prior to examination, such as secondments and case studies. All the prescribed elements of the module must be completed prior to application for the final examination.

It is important that this document is read together with the HTS regulations which clarifies requirements and gives further guidance.

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1.0 Scope of this Module
This module relates to M-level clinical training to develop practical skills to enable competency in the assessment of babies and children requiring objective assessment and peer review of cases. Typical cases for assessment or peer review will be those referred from the newborn hearing screen which will include both bilateral and unilateral No Clear Responses (NCR) as well as appropriate cases from those exempt from the newborn screen e.g. babies with a diagnosis of microtia / external ear atresia, bacterial meningitis / meningococcal septicaemia or confirmed congenital cytomegalovirus (cCMV) that do not present with likely complicating factors. Other cases for assessment might include older babies following bacterial meningitis/meningococcal septicaemia, interim testing (e.g. at 4 months) for those at risk of progressive hearing loss, testing children suspected of auditory neuropathy spectrum disorder (ANSD) or non-organic hearing loss (NOHL) and any child who is not developmentally suitable for behavioural testing or where behavioural testing has not been successful.

Testing will usually occur under natural sleep within the department but may also take place under natural sleep at home or on a ward, under sedation or under general anaesthetic within an operating theatre environment.

Candidates are not expected to be competent in leading the assessment of cases where there are other significant disabilities or disorders that would provide major challenges to assessment (e.g., presence of hydrocephalus). Although
candidates are not expected to assess cases with more complex needs, they are expected to be able to manage these cases appropriately should they present in a clinic, for example by referring on as needed. Candidates are expected to be familiar with assessment options and referral routes for such cases so they can advise parents and carers appropriately and answer routine questions.

While experience of testing and diagnosis of bilateral PCHI is ideal, it is not mandatory that a candidate is lead clinician for such cases and assistance from a more senior member of staff in such cases can be sought. As such, there is not a requirement for the candidate to have experience and demonstrate skills in bilateral PCHI diagnosis giving, but there is the expectation that the candidate will be able to manage such a situation appropriately, should it arise.

The peer review element to this module is designed to enable candidates to become adept at critiquing other results so they build on their knowledge and develop their own testing strategy to stand up to the rigours of peer review. Please note that this module does not lead to formal accreditation in this area.

This module is classed as a small HTS module.

2.0 Minimum requirements for this module

This module requires candidates to have existing skills and knowledge equivalent to that of a BSc in Audiology.

The detailed minimum requirements for completion, prior to examination are summarised in the following table. However, it should be noted this is a minimum requirement only, many candidates require more experience or training than this to enable them to meet the examination standard, and / or would benefit from a wider variety of learning opportunities such as placements with other professionals. The guidance notes should be followed, any experience which does not comply with this guidance cannot be counted towards the minimum requirements.

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<tr>
<td>M-level credits</td>
<td>10 credits</td>
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<tr>
<td>Total supervised clinical sessions *</td>
<td>15</td>
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<td>Tutorials</td>
<td>3</td>
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<td>Secondment sessions*</td>
<td>2</td>
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<tr>
<td>Placement sessions</td>
<td>No. minimum number</td>
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<tr>
<td>Part A – direct observations of clinical skills</td>
<td>N/A</td>
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<tr>
<td>Part B – Competencies - periodic appraisals of whole patient management and reflective diary.</td>
<td>5 appraisals in each category **</td>
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<td>Case Studies</td>
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*A session is a minimum of 3.5 hours to include clinic preparation, seeing patients and any subsequent record and report writing.

** for the peer review cases, there have to be a minimum of five cases of each type (discharge and non-discharge) appraised to be at examination standard

3.0 Theoretical knowledge

The candidate is expected to gain the following theoretical knowledge through academic study, tutorials, self-study and discussion:

1. To be able to contextualise childhood hearing loss from the socio-emotional, educational and medical perspective, to include:
   a. knowledge of epidemiology, aetiology and risk factors
   b. embryology and neuromaturation of hearing
c. genomics related to hearing loss and genetic counselling

d. the impact of childhood hearing loss on family and on child development

e. the importance of timely hearing assessment and its link to speech and language development

2. Critically evaluate the evidence relevant to benefit from early intervention for permanent hearing loss in children

3. Critically evaluate the evidence relevant to the effects, management and outcomes for children with temporary hearing loss

4. Appraise policies and guidelines, position statements and best practice with regard to child health and hearing including understanding of the principles and practice of surveillance and newborn hearing screening programmes and knowledge of national guidelines and recommended procedures that govern peer review and testing of babies and children

5. Knowledge of stage B calibration procedures for all equipment used in paediatric objective testing, with detailed knowledge of evoked response audiometry calibration

6. Content of a full and relevant history (including medical, developmental, and family aspects)

7. Integrative understanding of child maturation and development to choosing, interpreting and synthesizing different hearing assessment techniques in children

8. Knowledge of the different types of objective and behavioural assessment tests available for testing children, including their application at each stage of development

9. Detailed knowledge of objective hearing assessment techniques for babies and children

10. Understanding of the factors that contribute to successful objective hearing assessment of a child including accuracy, sensitivity, reliability and the scientific evidence underlying paediatric assessment methods

11. Knowledge of and ability to reflect upon the evidence and value of holistic, family-centred, and transdisciplinary care in paediatric audiology including informed choice, joint working, shared decision making and safeguarding, as well as sources of support

12. Knowledge of and the ability to critically evaluate the evidence for diagnostic, management and support approaches in a variety of paediatric conditions within and related to audiology e.g. PCHI, OME, ANSD, APD

13. Knowledge of safeguarding to include types of abuse, risk factors and local procedures should any concern arise

14. Awareness of communication strategies and appropriate language when working with children and their families / carers

15. Knowledge of risk factors and preventative measures, and appropriate public health messages with regard to hearing loss prevention

16. How to integrate relevant information to make a shared informed decision concerning the diagnosis and management of individual cases

17. Understand their own role and those of other professionals (e.g. Teachers of the Deaf/educational audiologists, speech and language therapist, paediatrician) and agencies who contribute to the management and welfare of the child and their family / carers, and local referral routes

4.0 Learning outcomes

On completion of the module the candidate should integrate theoretical knowledge and practical skills to enable them to:

1. Prepare test facilities & equipment, to include daily calibration checks and room set up

2. Formulate assessment plans, liaising with the relevant professionals to co-ordinate assessments & care, as appropriate

3. Plan clinical approaches, using clinical reasoning strategies, evidence-based practice

4. Take a full and relevant history

5. Carry out testing in a safe and effective manner adapting as required to ensure information gained is maximised within the time available

6. Show creativity, initiative and originality of thinking in tackling and solving practical problems

7. Collate relevant information, interpret and make an informed decision concerning the diagnosis and management of individual cases

8. Ensure that parents / carers are part of the decision making with use of person centred care
9. Ensure any concerns regarding safeguarding are recorded appropriately and are acted on, adhering to local protocol
10. Keep parent/carers and patients fully informed during all aspects of the appointment, obtaining consent for procedures as appropriate
11. Give clear information on results of hearing tests, advice and recommendation for follow-up actions/interventions to parents/carers and/or patients using appropriate language and communication strategies. This includes the ability to ‘share difficult news’ to parents/carers about hearing loss in infants and children
12. Through peer review, critically appraise the interpretation of results and management outcomes made by other clinicians; identify indicators for improvement, and feedback as appropriate
13. Keep appropriate clinical records
14. Write reports on test results and recommendations suitable for the intended audience, to include a range of professionals and parents/carers
15. Demonstrate the ability to, and articulate clearly through presentation and constructive discussion with colleagues:
   a. Relate their own practice to a supporting knowledge base – including reference to evidence-based and/or recognised good practice
   b. Clearly justify any of their own clinical decisions made in the assessment or management of patients
   c. Critically appraise the context of individual assessments within national and local structures/processes for assessment and diagnosis of hearing impairment
   d. Critically evaluate and reflect on their own actions
   e. Show independent thought through evaluation and presentation of alternative (and justified) approaches to existing local practice

In this module the above overarching learning outcomes will apply to the indicative content outlined in part A. These learning outcomes are used to assess competency in the part B appraisals and examination.

5.0 The range of procedures in which competence needs to demonstrated (Part A)

1. Preparation for appointment to include preparation of clinical facilities & equipment, to include daily calibration checks of tympanometers, OAE equipment and evoked response testing equipment, and room set up
2. Independently and succinctly obtain a relevant case history about the child in a logical but flexible progression, and
   a. Identify possible aetiological or contributing factors as they arise and spontaneously probe for more relevant information
   b. Show sensitivity to the parent/carer’s concerns both in questioning and information giving
   c. Record relevant information whilst maintaining a rapport with the parent/carer and being aware of their concerns
   d. Cover the main areas defined below, unless justifiably omitted
      i. What understanding the parents have regarding results obtained so far e.g. newborn hearing screen, previous diagnostic appointments
      ii. Pregnancy and birth history, neonatal and postnatal history and treatments (including serious illnesses, head injuries, presence of PVP shunts)
      iii. Any relevant ENT history
      iv. Family history of hearing impairment or disorders/syndromes associated with hearing impairment. This may include exploration of potential consanguinity in parents
      v. Involvement of other professional agencies
      vi. Establishing any new information since the last appointment, if appropriate
3. OAEs to include:
   a. Placement of probe
   b. Choice and type of emission
   c. Parameters and pass criterion
   d. Interpretation of results

4. Threshold auditory brainstem response testing using both air and bone conduction to include:
   a. Transducer selection
   b. Test parameters, and how these could be adapted to maximise results in the time available / conditions
   c. Use of different stimuli e.g. click, tone-pip and chirps
   d. Use of masking
   e. Problem solving, in particular with regard to interference
   f. Interpretation of results (including use of correction factors and patients with hearing losses as well as normal hearing)

5. Cochlear microphonics to include:
   a. Test parameters
   b. Interpretation of results

6. High frequency tympanometry to include:
   a. Positioning of the child
   b. Interpretation of results

7. Peer review of newborn assessment cases, to include:
   a. Local external and internal peer review protocols
   b. Criterion to assess against
   c. Use of improvement indicators

8. Debrief to child / parents / carers to include:
   a. Explaining results, implications for communication and proposed management using appropriate language
   b. Responding to questions from parents/carers in an appropriate way, showing sensitivity and rephrasing /re-explaining as necessary to ensure understanding
   c. Backing up information given with information materials for parent/child where possible
   d. Using appropriate methods to break difficult news to parents /carers (using role play if situation does not arise in practice)
   e. Involving child in debrief, as appropriate

9. Keep appropriate clinical records: record findings and interventions delivered clearly, in a consistent format, all of which must be dated and named

10. Write reports on assessment sessions, recommended treatment plans and / or outcome of treatment as required, suitable for the intended audience, to include a range of professionals

6.0 Types of cases for periodic appraisals of whole patient management (part B)

The specified case types for this module are given below.
- Clinical assessment of case with satisfactory hearing bilaterally
- Clinical assessment of case without satisfactory hearing bilaterally
- Peer review of discharge case
- Peer review of non-discharge case

Part B assessments will be assessed against the same criteria as the examination marking guidance. It is recognised that in the case of clinical assessment, the category into which the patient falls cannot be determined until the assessment is complete. Although peer reviews are not examined externally, it is expected that appraisals will be marked against the same guidance although note that only learning outcome 12 applies to these appraisals. Peer reviews can be completed on those sent in by an area group (overseen by an experienced colleague) or can be completed on in-house assessments.
by other staff members. NB: the experienced colleague is not required to have been formally accredited for peer review.

7.0 Examination details
Examination will take place over a maximum of a one-day period at the candidate’s training centre, assessing the candidate against the learning outcomes for this module. This examination has two components:

1. Practical assessment of clinical skills. This will involve the direct observation of the candidate in one appointment involving auditory brainstem response testing, followed by a case viva, plus a written report. If testing could not be completed, e.g. due to the child not sleeping, skills in clinical decision making and trace interpretation will be assessed using a staged case scenario.

2. General viva voce, to assess the level and scope of theoretical knowledge underpinning the learning outcomes. This may explore broader issues prompted by the practical exams, and the content of this module.
## 8.0 Examination marking guidance

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<th>Learning outcome</th>
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<tbody>
<tr>
<td><strong>1</strong> Prepare test facilities &amp; equipment, to include daily calibration checks and room set up</td>
<td>Omits or incorrectly performs calibration checks and equipment setup, OR is unable to identify the consequences of proceeding with incorrectly calibrated or faulty equipment, or room set up inappropriate for the session</td>
<td>Performs calibration checks and equipment setup correctly, and is able to identify the main consequences of proceeding with incorrectly calibrated or faulty equipment, and the room is set up appropriately for the session</td>
<td>Performs calibration checks and equipment setup skilfully, and is able to identify detailed consequences of proceeding with incorrectly calibrated or faulty equipment, and room is set up with a high attention to detail and patient needs</td>
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<td><strong>2,3</strong> Formulate assessment plans, liaising with the relevant professionals to co-ordinate assessments &amp; care, as appropriate. Plan clinical approaches, using clinical reasoning strategies, evidence based practice</td>
<td>Does not select appropriate or person-specific assessment or management plans, OR is unable to explain the reasoning behind the approach taken, OR does not show sufficient knowledge of the current research evidence and clinical guidance, OR does not liaise with relevant professionals as appropriate</td>
<td>Identifies appropriate assessment and management plans, and modified to meet individual needs. Is able to broadly explain the reasoning underpinning the approach taken using current research evidence and clinical guidance. Liaises with relevant professionals as appropriate</td>
<td>Creates an assessment or management plan which is highly tailored to the patient’s specific needs and consistent with current clinical guidance and evidence-based practice and liaises with the relevant professionals as appropriate</td>
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<td><strong>4</strong> Take a full and relevant history</td>
<td>Obtains insufficient information about the child’s history to date, family history or parent’s / carer’s understanding</td>
<td>Uses effective questioning and listening to elicit sufficient information about child’s history to date, family history AND parent’s / carer’s understanding</td>
<td>Uses skilful questioning, and active listening to elicit a comprehensive picture of the patient’s history to date, family history and parent’s / carer’s understanding</td>
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<td><strong>5</strong> Carry out testing in a safe and effective manner adapting as required to ensure testing is appropriate for the developmental age of the child, and information gained is maximised within the time available</td>
<td>Assessment is unsafe, OR does not follow local or national guidance (or without evidence based justifications as to why not), OR is not completed within an appropriate time, OR does not adapt the testing process to maximise data collection</td>
<td>Performs assessment safely, according to local and national guidance and within the appropriate appointment time allocation. Adapts the testing process where appropriate to ensure the most valuable data is prioritised</td>
<td>Performs assessment skilfully, according to local and national guidance and within the appropriate appointment time allocation. Adapts the testing process where appropriate to ensure the most valuable data is prioritised</td>
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<td><strong>6</strong> Show creativity, initiative and originality of thinking in tackling and solving practical problems</td>
<td>Does not show creativity, initiative and originality of thinking in tackling and solving practical problems if they arise during the session</td>
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<td><strong>7,8</strong> Collate relevant information, interpret and make an informed decision concerning the diagnosis and management of individual cases. Ensure that parents / carers are part of the decision making with use of patient centred care</td>
<td>Does not identify an appropriate range of diagnostic and management options for the patient or does not ensure parents / carers are part of the decision making process</td>
<td>Integrates the details from the history, test results, research evidence, current clinical guidance and patient preferences to identify a range of appropriate diagnostic and management options for the patient, including onward referral AND ensures the parents / carers are part of the decision making process</td>
<td>Integrates the details from the history, test results, research evidence, current clinical guidance to identify the full range of appropriate diagnostic and management options for the patient, (including onward referral) and their likely benefits and limitations, and fully involves the parents / carers in decision making</td>
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<td><strong>9</strong> Ensure any concerns regarding safeguarding are recorded appropriately and are acted on, adhering to local protocol</td>
<td>Does not pick up on safeguarding concerns OR does not record them appropriately, OR does not act according to local protocol</td>
<td>Picks up on safeguarding concerns and records them appropriately according to local protocol</td>
<td>Picks up on safeguarding concerns and shows a high level of knowledge about how to act on these, using appropriate documentation and referring to local protocols</td>
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<thead>
<tr>
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| 15 | Demonstrate the ability to, and articulate clearly through presentation and constructive discussion with colleagues:  
- Relate their own practice to a supporting knowledge base – including reference to evidence based and/or recognised good practice  
- Clearly justify any of their own clinical decisions made in the assessment or management of patients  
- Critically appraise the context of individual assessments within national and local structures/processes for assessment and diagnosis of hearing impairment  
- Critically evaluate and reflect on their own actions  
- Show independent thought through evaluation and presentation of alternative (and justified) approaches to existing local practice | Limited ability to reflect on and critically evaluate own clinical practice, or explain clinical reasoning. Demonstrates limited knowledge of subjects discussed  
OR  
Does not demonstrate a good working knowledge of relevant national guidelines or policies, or evidence base, or calibration aspects  
OR  
Unable to interpret or make informed decisions concerning the diagnosis, needs or management of individuals cases  
OR  
Does not demonstrate a good working knowledge of local structures, or offer critical comment  
OR  
Does not demonstrate critical evaluation or reflection skills of own practice and others, or not aware of the limits of own skills or knowledge, or when to seek advice  
OR  
Does not show independent thought during constructive discussion | Able to reflect on and critically evaluate own clinical practice, and explain clinical reasoning. Demonstrates comprehensive knowledge of subjects discussed  
AND  
Demonstrates a good working knowledge of relevant national guidelines and policies, relevant evidence base, has a good working knowledge of the relevant calibration aspects of any equipment used  
AND  
Demonstrates the ability to interpret and make informed decisions concerning the diagnosis, needs and management of individual cases  
AND  
Demonstrates a good working knowledge of the local structures (i.e. care pathways) for processing patients and offer critical comment  
AND  
Demonstrates critical evaluation and reflection skills of own practice and others, and awareness of the limits of own skills and knowledge and when to seek advice  
AND  
Shows independent thought during constructive discussion | Able to provide insightful reflection and critical evaluation of own clinical practice, and explain clinical reasoning with reference to research evidence and clinical practice  
AND  
Demonstrates wider knowledge of subjects discussed  
AND  
Demonstrates a high level of working knowledge of relevant national guidelines and policies, relevant evidence base, Has a high level of working knowledge of the relevant calibration aspects of any equipment used  
AND  
Demonstrates the ability to skilfully interpret and make informed decisions concerning the diagnosis, needs and management of individual cases  
AND  
Demonstrates critical evaluation and reflection skills of own practice and others, and high awareness of the limits of own skills and knowledge and when to seek advice  
AND  
Shows a high level of independent thought during constructive discussion |

Candidates must achieve a final rating of 1 or 2 in every section of the examination to achieve a pass.