Australasian Cerebral Palsy Clinical Trials Network

CENTRE FOR RESEARCH EXCELLENCE

Early Neurodevelopmental Assessment Beyond CP: Updated Evidence on Transdiagnostic and Innovative Tools (MOS-R, HINE, BabyOSCAR) to Inform Developmental Trajectories

Led by Dr Carly Luke & Prof Ros Boyd

In Acknowledgement of the Original Authors of the HINE:
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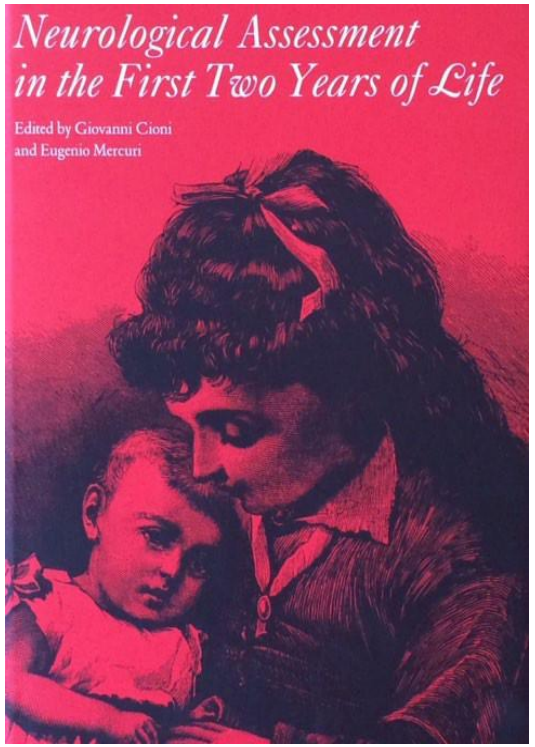
About the Early Detection UPDATE

This 1-day course provides **an update on the latest evidence on early detection, including use of the General Movement Assessment (GMA) - Motor Optimality Score (MOS-R) and Baby OSCAR with the Hammersmith Infant Neurological Examination (HINE) for the early identification of CP and the other (non-CP) conditions. The workshop provides a refresher on theoretical/practical training in the HINE** embedded within a contemporary, evidence-based approach to early neurodevelopmental screening. Participants will receive an update on the latest evidence and guidelines supporting early identification of Cerebral Palsy (CP) and other neurodevelopmental disabilities (including autism, FASD and Developmental Delay), with a strong focus on translating this evidence into clinical practice.

The Hammersmith Infant Neurological Examination (HINE) is a simple, standardised, and scoreable clinical neurological examination to identify infants with a high probability of CP, and as a transdiagnostic tool for other, non-cerebral palsy neurodevelopmental disability, including cognitive and motor delays in babies with newborn-detectable risk factors (preterm & term). Participants will explore how the **GMA, MOS-R, Baby OSCAR and HINE** can be effectively integrated to strengthen early risk stratification and prognosis for CP and broader neurodisability or neurodivergent outcomes such as autism, FASD, motor and cognitive delays, to guide targeted interventions.

A key theme is moving beyond diagnosis alone, using early assessment tools to inform functional trajectories, clinical decision-making, and meaningful early intervention.

Cork, Ireland - Thursday 28th May from 9.00 am to 5:00pm
Venue: INFANT Research centre, Paediatric Academic Unit, 1st floor Seahorse Unit, Cork University Hospital, Wilton, Cork
Morning tea, lunch and afternoon tea will be provided.



Workshop Overview and Objectives

This course emphasises the use of the **HINE not only for early identification of CP, but also for early prediction of functional outcomes and CP distribution,** supporting earlier prognostic discussions and targeted intervention planning. Participants will learn accurate administration and scoring of the HINE through practical, small-group training using infants aged 4–24 months. The course also introduces evidence-based and emerging tools, including the General Movements Assessment, Motor Optimality Score–Revised (MOS-R), and BabyOSCAR, demonstrating how combined assessments can be used to interpret infant developmental trajectories and identify broader non-CP neurodevelopmental disability and delay. Participants will receive an updated resource booklet and access to key readings to support ongoing learning and clinical implementation.

Training objectives

By the end of this workshop, participants will be able to:

- Outline the current evidence supporting the use of the Hammersmith Infant Neurological Examination (HINE) for the early identification of infants at high risk of cerebral palsy and other neurodevelopmental disabilities and delays.
- Demonstrate accurate administration of the HINE using video examples and hands-on, case-based learning in infants with neurodevelopmental risk factors.
- Apply HINE scoring in practice, including scoring infant case examples to determine risk status and interpret clinical findings.
- Use the HINE to inform clinical decision-making, including prioritising early, targeted intervention goals and integrating findings with complementary and emerging tools (such as the General Movements Assessment, Motor Optimality Score–Revised [MOS-R], and BabyOSCAR) to interpret infant developmental trajectories and support early risk stratification.

Who should attend?

Any individual interested in or currently involved in clinical practice and research for early identification and provision of early intervention for infants at high risk of cerebral palsy (including Physiotherapists, Paediatricians, Child Neurologists, Occupational Therapists). This training is suitable for any level and there are no pre-requisites

Pricing (includes catering)

Clinicians & Allied Health Professionals	$320AUD (€200)
Medical Physicians	$490AUD (€300)

All prices are charged in AUD. GBP prices are provided as an estimate only.

Course outline

Time	Activity
8.45 – 9:00am	Registration
9.00 – 10.00 am	Introduction to Early Detection • Why early detection? • Key evidence-based tools (GMA/HINE/ MOS-R/ Baby Oscar) and clinical practice guidelines • Thinking beyond CP – transdiagnostic utility of ED tools
9.45 – 10.30am	HINE refresher • Single item description • Scoring and administration • Interpretation
10.30 – 11:00am	Morning tea/coffee break (provided)
11.00 – 11:45pm	Babies – Practical session • Participants practice administering the HINE items, mat see HINE performed in full for scoring
11.45 – 1:00pm	HINE in the infants at risk of CP • Update on the evidence • Optimality scores • Cut scores for CP • Preterm vs term infants • Asymmetries • Prognostic scores for GMFCS, gross motor development
1.00 – 1.30pm	Lunch (provided)
1.30 – 2.30pm	Video scoring cases
2:30 – 3:30pm	Latest evidence in early detection and new innovative tools • Evidence for the use of HINE for outcomes other than CP • Developmental trajectories: Combining evidence-based tools for early risk stratification. • Tools for prognostication of CP distribution and future functional abilities – BabyOSCAR
3:30 – 3:45pm	Afternoon tea/coffee break (provided)
3.45 – 4.30pm	Case studies – Tying it all together
4.30 – 5.00pm	Conclusion • Key take home messages • Resources