

## Unit 5 Learning Objectives

### Research

- ✓ I am aware that extremity joint dysfunction is a common occurrence within the neonate and infant population.
- ✓ I have downloaded and read the paper, *'The prevalence of extremity joint dysfunction in neonates and infants within a paediatric chiropractic clinic'*.
- ✓ I understand that there is an alarming lack of data regarding the prevalence of extremity joint dysfunctions in infants and children.
- ✓ I acknowledge that the authors note that there is well documented discussions of clinically significant presentations associated with joint dysfunction, such as brachial plexus palsy, developmental dysplasia of the hip or clavicular fracture.
- ✓ I understand that within this study there was evidence of multiple conditions per case, in other words some children presented with more than one extremity dysfunction. And I acknowledge the clinical importance of this information when assessing a paediatric patient for extremity dysfunction.
- ✓ I recognize that when discussing extremity joint dysfunction in neonates and infants it is important to identify the three main timeframes when extremity joint dysfunction may develop during prenatal and neonatal development.
- ✓ I understand that as a paediatric chiropractor it is important to recognize the relevance in terms of potential long-term consequences associated with extremity joint dysfunction in children.
- ✓ I am aware of the numerous studies that have demonstrated cortical changes, specifically in the motor and somatosensory regions of the brain, as well as the cerebellum in response to alterations of proprioceptive input due to joint dysfunction, peripheral restraint, or limb loss.
- ✓ I have absorbed the importance of the closing remarks by the authors of this study, and will take this into account when performing paediatric assessments. *'Extremity joint dysfunction is a common and frequently overlooked significant issue in neonates and infants. All neonates and infants attending a chiropractor should be assessed to identify the presence of extremity joint dysfunction and receive appropriate treatment.'*
- ✓ **Content**
- ✓ I understand the difference between primary and secondary subluxations in an infant.
- ✓ I recognise the most important areas to address when assessing the spine of a child; the upper cervical area (including the occiput and cranial bones) and the L5/sacral area.
- ✓ I understand the importance of an infant having a balanced dural system
- ✓ I appreciate that when adjusting a child, your role should be to apply the technique or procedure that offers the best chance of optimising both the function of that joint as well as the neurological system of that child, while at the same time having the least possible input into that child's spine
- ✓ I have the ability to identify and relieve any dural tension in an infant.

- ✓ I recognise and understand the contraindications to the inverted swing test.
- ✓ I have the ability to assess for biomechanical dysfunction at the lumbosacral region of an infant.
- ✓ I have the ability to assess for biomechanical dysfunction at the lumbar and lower thoracic spine of an infant.
- ✓ I have the ability to assess for biomechanical dysfunction of the sacrum of an infant.
- ✓ I have the ability to assess for biomechanical dysfunction of the sacroiliac joints of an infant.
- ✓ I have the ability to use the Logan Basic technique to assess for a sacral subluxation in an infant.
- ✓ I have the ability to assess for biomechanical dysfunction of the mid to upper thoracic spine in an infant.
- ✓ I have the ability to assess for biomechanical dysfunction of the lower cervical spine in an infant.
- ✓ I recognise that the most frequent presentation of the upper cervical spine in an infant is the subluxation of the occiput on the atlas.
- ✓ I understand the simple step by step process to assess the upper cervical region of an infant correctly.
- ✓ **FAQ**
- ✓ I understand the importance of determining whether you are adjusting a primary or secondary subluxation.
- ✓ I understand the importance of explaining everything to a parent during an examination including what you propose to do and why you are doing it