

Rationale for paediatric MSK care Cheat Sheet by Siffi (Siffi) via cheatography.com/122609/cs/22895/

Ages	
Newborns	Premature (<38
	weeks)
	Term (>38 weeks)
Neonate	0-30 days
Infant	Early (1-12 months),
	Late (13-24 months)
Young child/-	2-6 years
toddler	
Child/school child	6-12 years
Adolescent	12-18 years

General MSI	C in utero conditions
MSK from intrauterine enviro-nment	Pathologies, uterus differences, growth restriction and arthrogryposis
Congenital contra-ctures	AROM + PROM reduced with structural and or functional abnormalities of soft tissues
Congenital anomalies	Malformations, disruptions, deformations, dysplasia
Arthrogrypos joints - curve	is: Abnormal contracture of d joints

Signs that a child needs manual therapy

Signs of a neck problem

Decreased cx Decreased neck tone + ROM strength Asymmetric head Difficulty sleeping

shape supine

Palpable lesion in joints/muscles of the cx spine

Swaddling	
Increases risk of SID - more likely to be prone	Negative effect on mother-infant relationship compared to skin to skin
Later breast- feeding	Developmental hip dysplasia
Acute respiratory infection	Vitamin D deficiency
Decreases pain scores	Decreases spontaneous awakening and arousa- bility, greater quality sleep
Increased risk of	f hyperthermia

Pain in later life	
Pain - increased heart rate	Hypothalamic pituitary adrenal axis reprogramming
Higher risk of malada- ptive responses to anxiety & stress provoking stimuli	Anxiety, depression, OCD, panic & PTSD
Cognitive functioning	Reduced cognition and visual motor integration

Increased size of amygdala

Periaqueductal grey Immediate & permanent

Increased endorphin & encephalin protein

changes

Prevention:

Non pharma therapies: Kangeroo care, massage, skin to skin contact, breastfeeding, NNS, oral sweeteners

Parents:

Increase emotional sensitivity Increase education

Lower parental stress

Not published yet. Last updated 31st May, 2020.

Foetal akinesia Lasting >3 weeks:

Lack of Reduced compliance of the normal capsule and peri-articular muscle ligaments

stretching

Fibrosis and contractures Causing:

of the affected joints

Assessed by: **PROM**

Multiple gestations

Was your baby moving all throughout the pregnancy or staying still? Movements are important for normal MSK development

Risk factors for intrauterine constraint

Primigravida (first pregnancy) Small maternal size Uterine malformation Uterine Fibromata Early Pelvic engagement of the foetal head Aberrant foetal positioning Oligohydramnios (too much amniotic fluid)

Birthing injuries Forceps + Nasal septal deviation perineal pressure Mild injuries **Head Asymmetry** Facial asymmetry Torticollis Mandibular asymmetry Spinal, rib, clavicular dysfunction Moderate injuries Clavicular f# Facial nerve injury Bruising & tearing spinal nerve root

Brachial plexus



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Birthing injuries (cont)

Severe Extra/sub-dural haemorrhages into joint capsules, torn ligaments, injuries

Haemorrhages of vertebral

arteries

Types of birth interventions + Risks

71	
Vaginal Birth	Clavicular f#
Forceps	Skull f#
	CN palsy
	Brachial plexus injuries
	Facial nerve palsy
	Torticollis
Ventouse	Cephalohaematoma
	Cranial f#
Risks	Male (larger)
	First born
	Assisted delivery

Ventouse: Cup like suction device, attaches to the baby's head

Non-pharma pain management

Enviro-	Feeding methods	Other
nment		
Skin to Skin contact	Non-Nutritive sucking (NNS)	Acupun cture
Swaddl- ing(?)	Breast Feeding	Sucrose

Tucking

Touch, massage

Music

Non-Nutritive sucking:

Sucking not for the purpose of feeding

Benefits:

Improved digestion

Behavioral organization (able to settle down after crying)

Pain management

Decreased risk of SIDs

NNS if baby resists Consider: Because of early breast weaning? Shortened breast-Nipple confusion feeding duration? Otitis media Dental malocculusions Suffocation Allergies Infection Poisoning

Recommended:

Minimise pacifier use

Delay introduction up to 1 month of age

Limit use for soothing

Wean from pacifier from 2-6 months of age

NP & NC pain

NC – superficial somatic	Skin, mucosa	Well localised	Sharp May be burning or pricking	None
NC – deep somatic	Bone, joints, muscles, CT	Well localised, tenderness to palpation	Dull Aching Throbbing	May refer over skin
NC – visceral	Internal organs	Poorly localised, Palpation may create pain	Vague dull, achy, cramping, tightness, deep pressure, spasms, squeezing	May refer over skin May be radiation of visceral pain
NP	Various sites, not always stimulus dependent	Poorly localised, diffuse + Sensory dysfunction	Difficult to describe Burning, pricking, needle like pain Sharp, shooting	Within nerve territory May be abnormal radiation

Neuropathic (NP) Nociceptive (NC)

Prevention of aspiration



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