# **DEVELOPMENTAL CARE**

#### INTRODUCTION

 Developmental needs are an integral part of care planning; these differ according to gestational age, postnatal age and health status. Assess developmental needs and plan care responsive to baby's stress threshold and sleep/wake pattern

## **Key concepts**

- Promoting organised neurobehavioural and physiological function
- Altering the physical environment to protect vulnerable developing sensory systems
- Family integrated care

#### Goals

- Improved physiological stability
- · Reduced stress and pain
- Appropriate sensory experience
- Protection of postural development
- Improved sleep patterns
- Improved feeding
- Confident parenting and attachment and to support parents taking lead in care giving
- Staff satisfaction
- Improved neurodevelopmental outcomes

## **OBSERVATION AND RECOGNISING BEHAVIOURAL CUES**

 Recognition of signs that baby may be experiencing stress is vital. Babies will display different cues at different stages of development according to their behavioural state (wake/sleep state)

#### Defensive/avoidance behaviour Coping/approach behaviour · Any of the following indicate baby may need help The following may indicate how well baby is able to settle itself, cope with or some time-out: interventions and to interact: respiratory pauses, tachypnoea, gasping yawning, sighing able to regulate colour and breathing pattern gagging, posseting reduction of tremors, twitches and hiccoughing autonomic stress cues sneezing smooth well-modulated posture and coughing normal tone straining smooth movements flaccidity (limp posture) trunk, limbs, face, mouth hand and foot clasping hypertonicity with hyperextension (stiff posture) araspina arching hand-to-mouth activity finger splays, 'high guard hands', 'saluting' hand holding hand-on-face, fisting hands to midline facial grimace rooting/sucking · Frantic diffuse motor activity: defined sleep states squirming focused, shiny-eyed alertness or disorganised transition between and rapid changes animated facial expression of behavioural state 'ooh' face fussing or irritability cooing staring or gaze averting attentional smiling hyper alertness easily consoled crying/whimpering

### CARE-GIVING AND INTERVENTIONS

- Handling and invasive procedures may cause:
- destabilisation of blood flow, cardiac regulation, oxygenation and digestive functions

- discomfort, pain and iatrogenic injury
- poor thermoregulation
- disrupted growth
- altered sleep patterns with disordered transition between states
- delay in development of normal movement and posture
- diminished parental confidence and competence

Whenever possible all care-giving and intervention should be carried out by 2 people, 1 person performs the intervention; the other provides the baby with comfort and support

#### Method Aim Plan and deliver individualised care and • Closely observe baby's physiological, motor and behavioural cues. Plan, adapt and pace interventions (nursing and medical), in accordance with baby's cues, promoting care-giving and interventions in response physiological stability and self-calming • Have all necessary equipment ready before behaviours starting • Protect baby's sleep and ability to self-• Approach baby carefully, using soft voice and gentle touch, allowing time to adjust regulate Avoid pain, distress and iatrogenic injury before beginning • Protect developing musculoskeletal Keep lighting and noise levels low systems by promoting midline postures and • Support and comfort baby throughout: symmetry administer appropriate analgesia including • Increase parents' confidence and sucrose and MEBM competence avoid totally exposing baby facilitate baby's self-calming strategies according to behavioural cues e.g. nonnutritive sucking, grasping, hand-to-mouth and foot bracing use swaddling and containment (hands/nest/soft blanket or clothing) to provide support during care or procedure allow baby 'time-out' to recover if cues indicate stress. Recommence when baby is • Use side-lying position for cares, including nappy changes. Promote a flexed position with limbs tucked in. Do not lift baby's legs. place soles of feet together and roll side-toside instead • Use containment and swaddling for transfers into/out of incubator/cot, weighing, and bathing. Move baby slowly, in flexed, sidelying position, close to carer's body • Promote positive touch and active parental • Promote kangaroo care as soon as possible (see Kangaroo care guideline) • Ensure baby settled, comfortable and stable before leaving bedside