A Smart Start – The Importance of Parent-Child Interaction

Jane Barlow Professor of Public Health In the Early Years Mote: In Prof Jane Barlow's absence, this presentation was slightly adapted and delivered by Dr John Linnane, Director of Public



Fair Society: Healthy Lives Marmot (2010)

- In order to equalise life chances we need to give every child the **best start in life**
- 2 key periods pregnancy; first 2 years of life
- Returns on investment on well-designed early years' interventions significantly exceed the costs

The First Year is			
Foundational			
	Emotional/ social development	Intellectual Development	Behavioural development
Infancy	Trust/attachment	Alertness/curiosity AFFECT REGULATION	Impulse control
Toddlerhood	Empathy	Communication/ mastery motivation	Coping
Childhood	Social Relationships	Reasoning/problem solving	Goal-directed behaviour
Adolescence	Supportive social network	Learning ability/achievement	Social responsibility

The importance of early parent-infant interaction



Parent-Infant Interaction

- Parent-infant interaction is important because it plays a key role in terms of:
 - the infants rapidly developing central nervous system (CNS)
 - the infant's developing attachment organisation

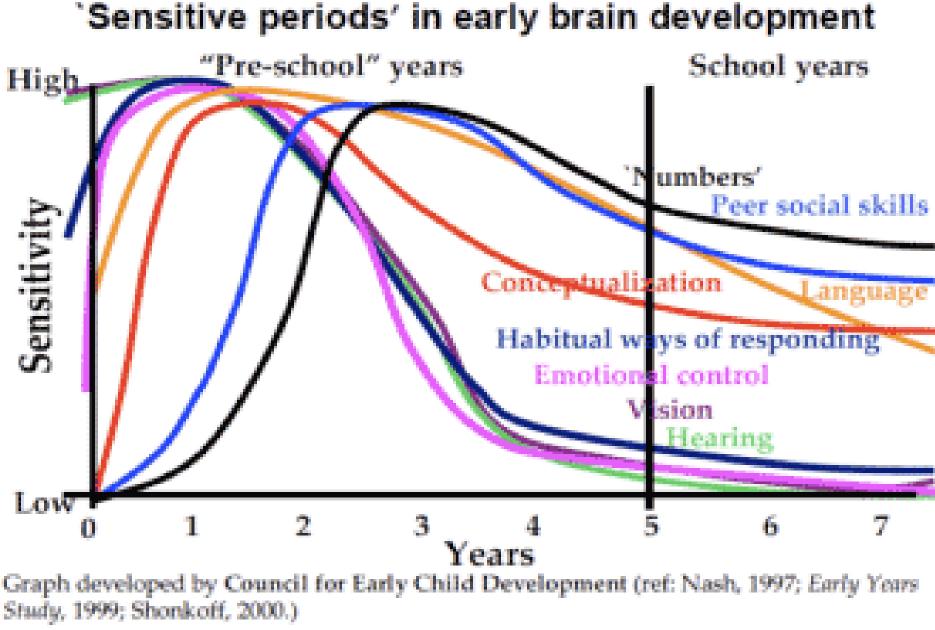
The Developing Brain



Early Brain Development



Figure 4.5 The connections between neurons develop rapidly after birth. This is a picture drawn from photomicrographs of infant brain tissue. Even so, it is only schematic, and not from one infant.

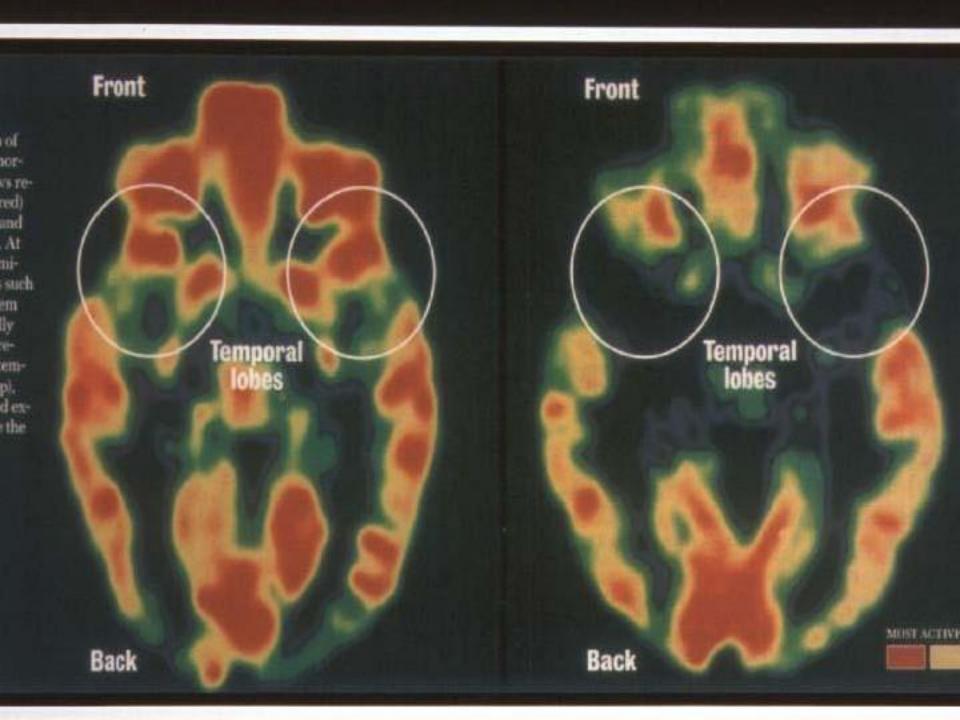


V V

Impact on the brain

- Babies of depressed mothers:
 - nearly half show reduced brain activity
 - much lower levels of left frontal brain activity (joy; interest; anger)
 - more likely to be depressed in adolescense
- Early experiences of persistent neglect and trauma:
 - Over development of neurophysiology of brainstem and midbrain (anxiety; impulsivity; poor affect regulation, hyperactivity)

-deficits in cortical functions (problem-solving) and limbic function (empathy)



What is attachment?



What is attachment?

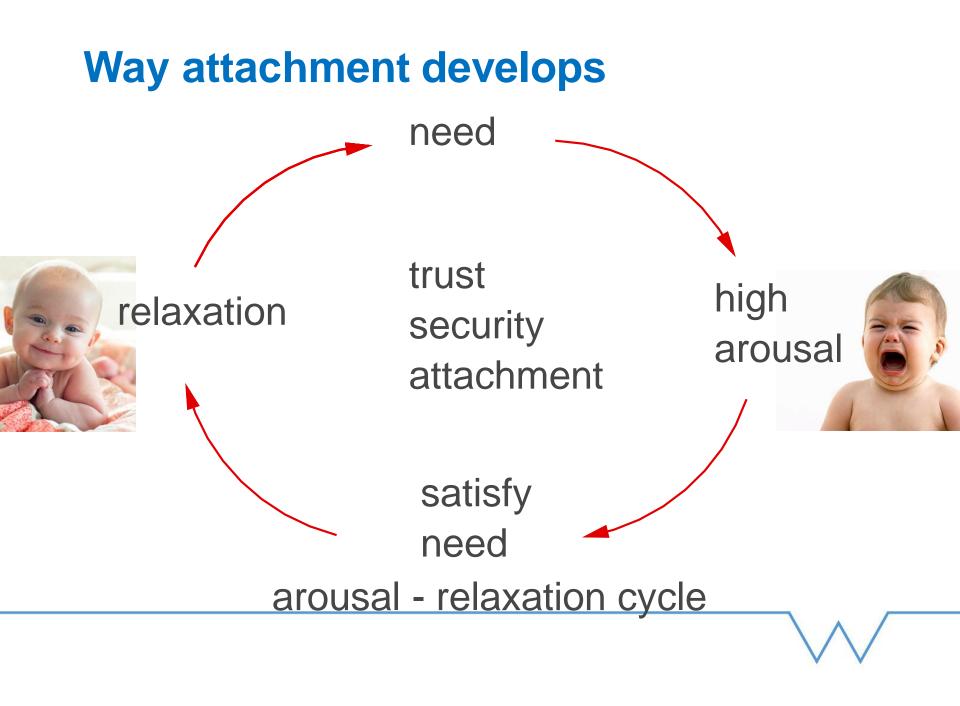
- A strong emotional connection that is developed in the first year of life
- Bowlby (1977) argued that the attachment relationship with the primary caregiver:

a) promotes the baby's survival and

b) is central to the child's later development

Difference between attachment and bonding





Infant Attachment Styles

Secure

Non-secure

- Ambivalent
- Avoidant
- Disorganised

Parenting begins in pregnancy...

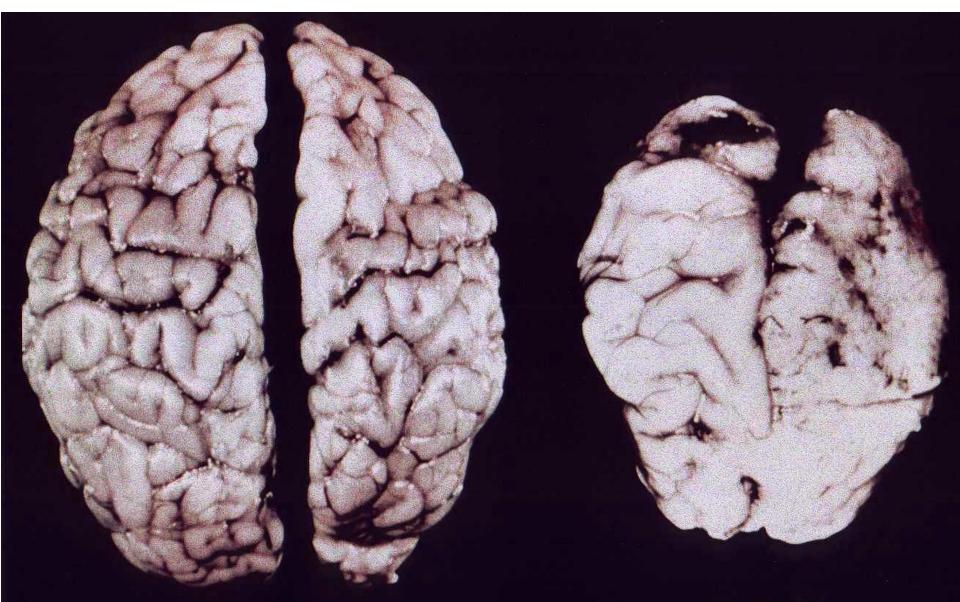
Parenting begins in pregnancy with:

- Prenatal behaviours that are designed to protect and promote the wellbeing of the foetus;
- A process of 'bonding' with the foetus that begins in the second trimester



Alcohol and Drug-Related Birth Defects

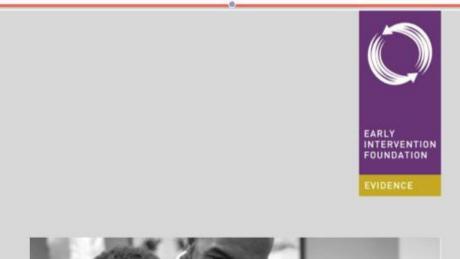




6-Week Old Baby "Normal" brain 6-Week Old Baby "Fetal Alcohol Syndrome" brain

Adverse Childhood Experiences (ACEs)







THE BEST START AT HOME

WHAT WORKS TO IMPROVE THE QUALITY OF PARENT-CHILD INTERACTIONS FROM CONCEPTION TO AGE 5 YEARS? A RAPID REVIEW OF INTERVENTIONS



NICK AXFORD, SHREYA SONTHALIA, ZOE WRIGLEY, AMY GOODWIN, CASSANDRA OHLSON AND GRETCHEN BJORNSTAD – DARTINGTON SOCIAL RESEARCH UNIT JANE BARLOW, ANITA SCHRADER-MCMILLAN – UNIVERSITY OF WARWICK

JANE COAD, ALEX TOFT - COVENTRY UNIVERSITY

What works to improve parentinfant interaction?

Key Features of Effective Approaches

- Dyadic approaches, ie. working with parent/s and infant together;
- Aimed at improving child attachment security by targeting parental sensitivity/attunement and reflective function, and thereby the interaction;
- Provided by trained practitioners receiving ongoing supervision from accessible locations.
- Incorporating Routine Enquiry into Childhood Experience (REACh)

Psychiatric and parent-infant treatment i.e. in-patient mother & baby unit.

1001 Critical Days Manifesto

Programmes include:

Family Nurse Partnership, Baby Steps, Parents under Pressure, Watch, Wait and Wonder, Video Interaction Guidance & Mellow Babies TIER 4 Severe mental illness

TIER 3

Specialised services for families experiencing high levels of stress, where problems are already apparent

TIER 2

Additional care for parents identified as needing extra clinical & universal care

TIER 1 Universal support for every parent: Prevention & early Identification

Tiered approach to parent-infant services

Specialist Clinical Intervention i.e. PIPUK, NorPIP, OxPIP, LivPIP, Anna Freud

> GPs, Maternity Services, Health Visitors, Children's Centres, Paediatrics



Sensitivity/ Attachment Interventions



Parent Training Programmes



Mentalisation-Based Approaches



Psychotherapeutic



- A range of evidence-based universal and targeted interventions to support mother-infant interaction;
- Requires high level of practitioner skill and training;
- Provided at local level;
- Ensure that the intervention works dyadically and target parental sensitivity and reflective functioning
- Assess functioning before and after the intervention