Webinar 1: Understanding Trauma in Practice

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Child development

- Mix of genetics and experience
- Each developmental stage has particular things that we expect to see
- At each stage we face developmental tasks that require the support of our parents and/or carers
 Delays in one area can affect our ability to consolidate skills and progress to the next developmental stage

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Child development
Using the child development and trauma guide:
Discuss the allocated developmental stage in your group
Provide an overview of normal development for the allocated stage
What might you notice in the allocated stage that you see in the children and young people in youth justice?
Did you notice any mismatch between the tasks of the

allocated stage and the expectations placed on children of that age?

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Culture is part of development



 Our culture influences our brain development
 Our relationships influence our culture and our culture influences our relationships

Sensory data is interpreted according to our culture long before our ability to think about and understand our culture



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Brain development

- The brain develops through a mix of genetics and environmental factors.
- Key to this development are relationships
- The brain develops sequentially from the bottom up

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Brainstem - basic life functions

- Basic life functions
- First part of our brain to developThis is the most developed brain part at
- birth
- Responsible for our heart beat, breathing, sucking, temperature control, blood pressure



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Cerebellum- movement and balance

- Helps us to know where our body is in space
- Helps us with our posture and balance
- Helps us not to fall over and to control our movements
- Has its own connective pathways between the 2 halves- cerebellar vermis

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Limbic lobe- emotional gateway

- The part of the brain that helps us attach an emotion to an experience or memory
- This part of the brain is particularly involved with the emotions of fear and anger
- Also heavily involved in attachment processes
- This area develops mainly after birth



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Hippocampus – Brain's historian Explicit memory system Develops approximately 2-3 years of age Provides context to memory and embeds long term memory





Cerebral cortex- complex thinking

- The largest part of the brain
- Associated with higher brain function such as thought and action
- Examples of functions:
 Reasoning
 - Logic
 - Judgement
 - Voluntary movement

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The prefrontal cortex- executive function

- Responsible for executive functions, such as judgement, reasoning, and self awareness
- Final part of the brain to reach maturity in one's mid 20s
- Under reconstruction in adolescents from the age of approximately 12 years

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Brainstem & Diencephalon	Basic survival & sensory processing	Pacification or stimulation. Activities in the child's preferred sensory modality
Cerebellum	Coordination of movement	Using music, rhyme and movement activities
Limbic	Emotional processing	Building relational connection through plays, animals, games
Cortex	Thinking processes	Linking experiences and sensations to words and descriptions
Prefrontal cortex	Analytical and abstract thinking	Challenges and safe risk taking activities

























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Attention and trauma

- Attention held on the experiences of trauma
- Difficult to focus on anything else.
- Often misdiagnosed with ADHD
- Cortex is often not fully 'online' as their attention is focused on survival.
- Impacts on learning







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