



Session outline - examine brain development in children - understand the impact of trauma on children's and young people's development and functioning - develop strategies for working with traumatised children - discuss whole school or service approaches to supporting

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traumatised children

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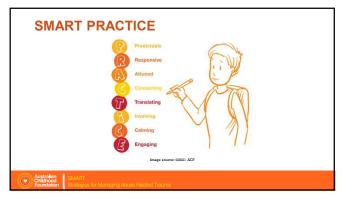
Key learning outcomes - success criteria

- develop an enhanced understanding of complex abuse related trauma, with a particular focus on its effects on brain functioning.
- apply a framework for responding to children who have been impacted by trauma
- build on practice skills and interventions which promote recovery for children in education settings.



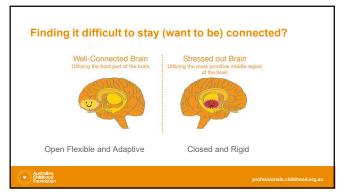
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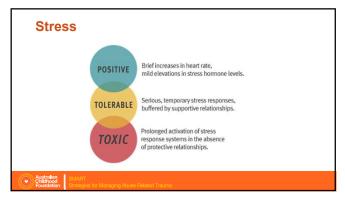




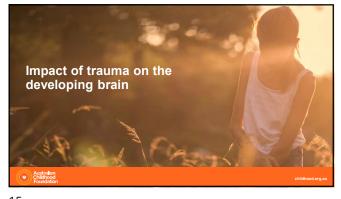


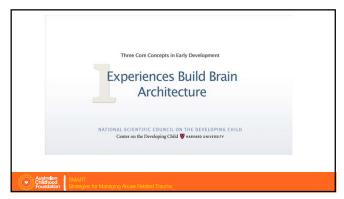
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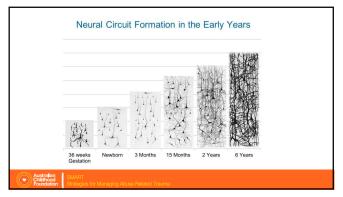


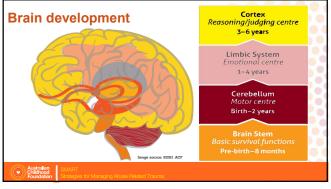












Strengthening neuronal connections Provide opportunities for repeated experiences • Ensure students have an opportunity to practice tasks over and over • Provide encouragement when tasks are achieved as this will connect to the brains' reward system • Include lots of physical activities that are repetitive – playing musical instruments, skipping, dancing etc • Model positive relational connections, emotion, fun and relational attunement

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The brain stem under stress and trauma may experience fast or slower heart rate shortness of breath or breathing difficulties sleep disturbances and unsettledness sucking and swallowing and digestion difficulties may feel hot or cold or not notice changes in temperature What do you notice?

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Cerebellum – body and balance centre • helps us with our posture and balance • helps us with our coordination and to control our movements • helps us to know where our body is in space • helps us with our voluntary movements such as walking and writing

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The cerebellum under stress and trauma lack of coordination and balance difficulty in maintaining posture difficulty in undertaking tasks that require balance lack of awareness of their body in space difficulty with voluntary movement tasks – walking or writing What do you notice?

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Provide activities which are rhythmical and synchronous with others: Rhythmic sounds - stories, songs, rhymes & music Rhythmic movement Rhythmic touch SMART PRACTICE Focus - Predictable and Calming Mart Practice Focus - Predictable and Calming

Growing and regulating the cerebellum

Provide activities which have support and balance, develops gross and fine motor skill elements and are synchronous with others

- Balancing activities
- Stretching aligning the spine activities
- Spine/lumbar support
- Throwing and catching objects
- Writing, drawing, colouring, making



Image course: #2021 F



SMART Stratenies for Mananing Abuse Related Trauma

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Diencephalon - sorting and sending centre

- develops mainly after birth
- sorts out "messages" coming into the brain and sends them out to other parts of the brain
- uses hormones to send signals to body
- hormonal signals tell your body what it needs, eg. food, water, love



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The diencephalon under stress and trauma

- becomes overwhelmed and cannot sort the information
- is unable to send information to the memory and thinking parts of the brain that pathway shuts down
- it alerts the amygdala which sets of a sensory information response sequence

What do you notice?

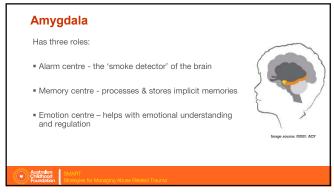
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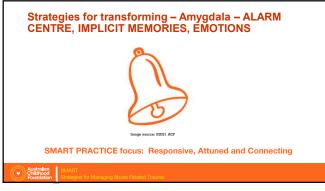






The amygdala under stress and trauma • can be over active or under active • can evoke reminders and flashbacks of the trauma (awakenings) • may have difficulty in emotional regulation • may have difficulty in reading facial expressions What do you notice?

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Growing and regulating the amygdala

Provide activities that support emotional and social connection, understand the implicit memory needs and that calm and connect

- Explicit emotional literacy teaching
- Calm, sensory supportive environments
- Support the child, reassure
- Stay present provide safety



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Hippocampus

- explicit memory centre
- provides context to memories
- provides consolidation of information from short term memory to long term memory
- memory puzzle sorting centre

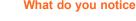


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The hippocampus under stress and trauma

- doesn't function properly it feels as if the trauma hasn't ended.
- reduction of hippocampal volume up to 25% as a result of high levels of cortisol
- working memory, retention and recall (retrieval) capacity is severely impacted

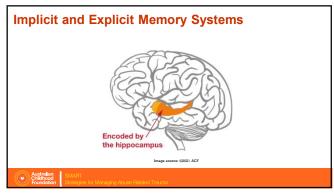


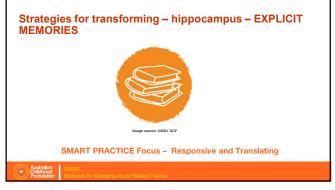




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Provide activities that support memory retention and recall and review and repetition Practice activities and learning skills over and over Reinforce learning through repetition Provide playful opportunities to learn Use visuals to assist

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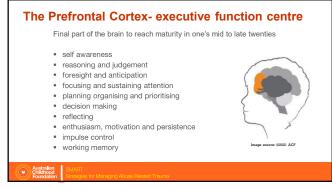
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The largest part of the brain associated with higher brain function such as thought and action examples of functions: oreasoning ologic ojudgement ovoluntary movement

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Unable to: use foresight and anticipation, focus or sustain attention plan, organise or prioritise or make decisions well reflect or have self-awareness be enthusiastic, motivated or persist with activities use impulse control What do you notice?

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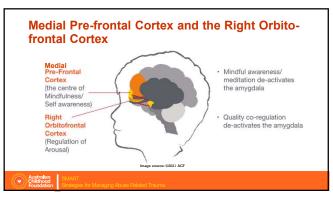
Growing and regulating the cortical areas Provide activities that connect the cortical areas, through choice, problem solving, planning and voluntary movement ■ Play thinking and choice games ■ Map out and plan activities together ■ Break down problems to work through

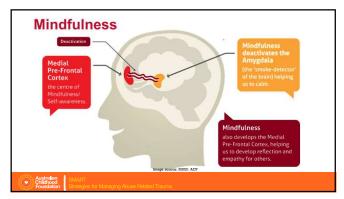
Allow choice and options ■ Use voluntary movement activities



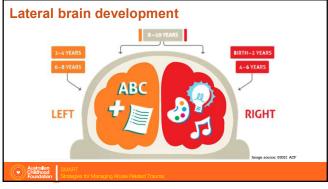


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Hemispheres under stress and trauma

- will struggle to process the content of our words (left hemisphere Wernicke's area)
- may not be able to speak or articulate (left hemisphere Broca's area)
- will be tuned into the tone of voice, not the content (right hemisphere)
- difficulties with understanding and knowing feelings and articulating
- difficulties with tuning into, understanding and responding to social cues in communication
- will be acutely aware of facial expressions, posture, gestures, intensity of movements and eye contact and searching for signs of disapproval, rejection & danger

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SMART Strategies for Managing Abuse Related Trauma

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Strategies for transforming – building RH/LH connection and the Corpus Callosum



SMART PRACTICE Focus - Involving, Connecting, and Engaging

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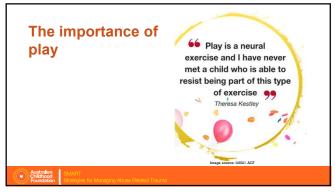
Attachment and the right brain

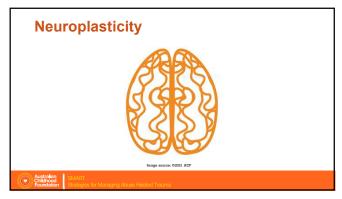
- Neuroimaging studies show areas of the right hemisphere lighting up in the brains of parents & infants during nonverbal interactions. (Schore, 2003)
- A secure attachment relationship facilitates right brain development and promotes efficient affect regulation.



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| Predictability is a metaphor for safety. "The removal of threat is not the same as the presence of safety" (Porges, 2014) |
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| the same as the presence of |
| |
| safety" (Porges, 2014) |
| |

Building predictability

Predictability is achieved by:

- Reliable routines e.g. bedtime story/song, start to day
- Using visual cues to help children prepare for the day sequencing...better to use photos of the actual child, than clipart
- Preparing children for what's coming next
- Talking to baby/child about your intentions
- Same staff & caregiver/s every day



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Transitions

List all the transitions you expect children to traverse in one ordinary day $% \left(1\right) =\left(1\right) \left(1$

- How many are essential?
- How can you provide safe passage for children through the transition?
 - Safe Person
 - Safe Activity
 - Safe Place

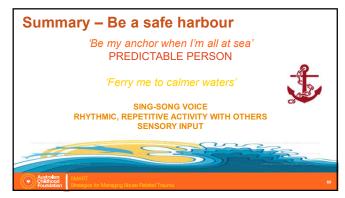
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Building safety and connection Managing transitions and change is extremely difficult for traumatised children transitions are experienced as a threat they feel a lose of their sense of safety they may revert to survival mode How can you help children to feel safe during TRANSITIONS?

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understand & respect the child's need for distance in relationship increase your tolerance for 'stuckness' and 'crisis' practise mindfulness use phrases like: 'I noticed that...', 'Isn't that interesting!' practise self-care and seek support practise calming techniques

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Day 2 Strategies – what's coming up in our next session...

In Day 2 you will

- Be introduced to the Polyvagal Theory and the concept of the Window of Tolerance.
- Explore the different arousal levels and consider supportive strategies for each.
- Explore further the meaning of the behaviours we see in our students.
- Build a toolkit of strategies, focusing on the SMART Audit Tool

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Holding hope



What are your hopes for the children you work with?

What are your hopes for your school?

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Thank you for your participation...



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