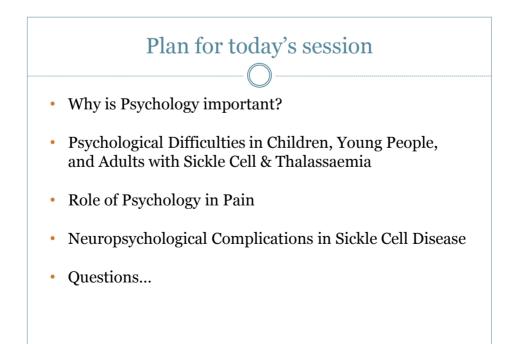


Introduction to Sickle Cell and Thalassaemia Study Day King's College Hospital September 2017





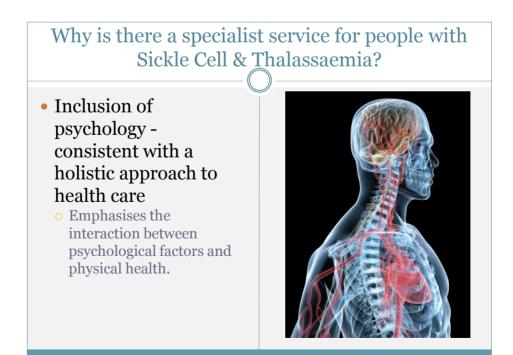
- Turn to the person next to you, and think about what thoughts or feelings you might have as:
 - o an 8 year old with sickle cell disease
 - \circ a 16 year old with sickle cell disease
 - o a 28 year old with sickle cell disease
- Share with the group...

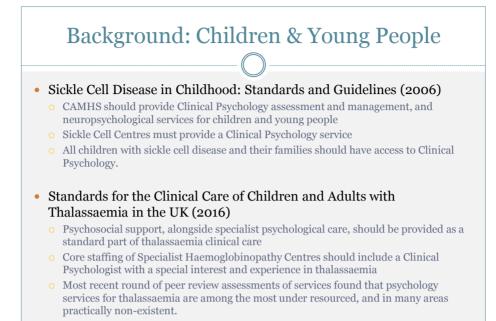


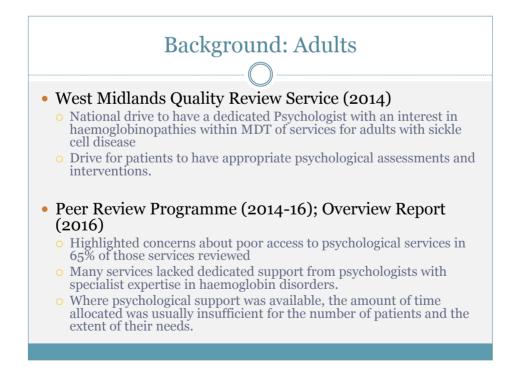
Sickle cell disease and thalassaemia is a chronic illness with psychological, social, and physical complications....

Why Psychology?

- Psychological support is particularly important for people with haemoglobin disorders because of:
 - lifelong nature of the disease
 - o ongoing, frequent interactions with hospital services
 - impact on all stages of development, including cognitive development
 - psychological consequences of a lifetime living with pain.
- Needs are addition to underlying socio-economic challenges already faced by many people with haemoglobin disorders, as well as stigmatisation and discrimination.







Psychological Difficulties in Children, Young People, and Adults with Sickle Cell & Thalassaemia





Psychological Difficulties in Children, Young People, and Families – Demographic Differences

• Demographic variables (such as age and gender) can influence psychosocial adjustment:

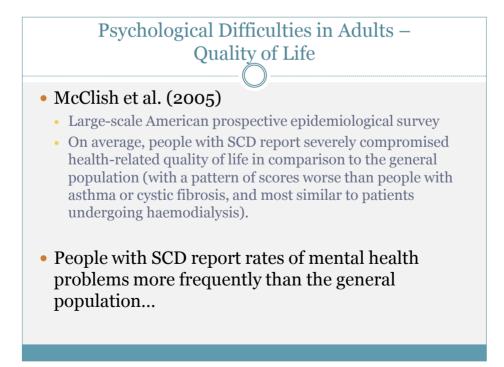
- Children with SCD appear more concerned about family and social relationships (Schaeffer et al., 1999)
- Adolescents seem more worried about delayed puberty and physical development, the liability of SCD on family and friends, and death and dying (Schaeffer et al., 1999)
- Females tend to use more active coping strategies, and tend to report a better QOL than males (Casey et al., 2000; Lutz et al., 2004)
- Males use denial as a coping strategies more than females, and utilise health care services more often than females (Royal et al., 2000; Lutz et al., 2004)
- Girls with SCD are rated as less sociable and less well accepted by their peers, and boys are rated as less aggressive (Noll et al., 1996).

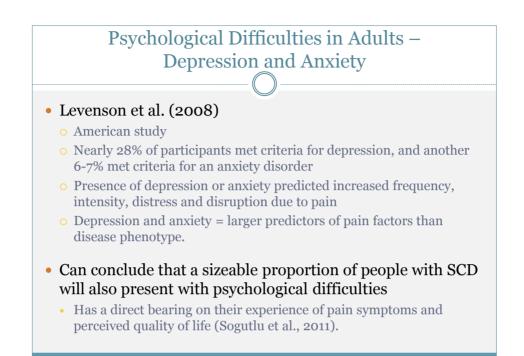
Psychological Difficulties in Children, Young People, and Families – Family Functioning

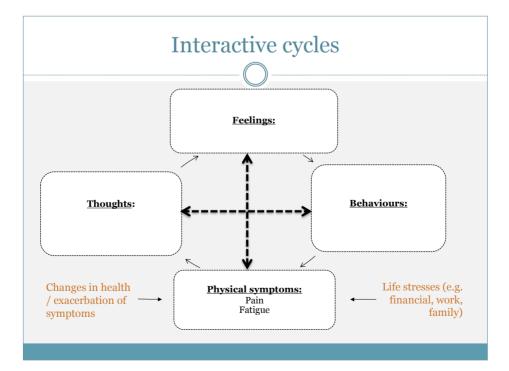
- Family distress appears to be related to family conflict and typical child rearing tasks, rather than diagnosis of SCD or its severity (Thompson et al., 2003).
- Parents and caregivers need to be:
 - Knowledgeable about SCD and its treatment
 - Skilled in recognising symptoms and implementing treatment plans at home
 - Persistent in coordinating other family responsibilities and activities.
- Coping strategies used by caregivers as they incorporate SCD into lives:
 - Active strategies information seeking, using social support
 - Passive strategies prayer
- Key psychological interventions for families:
 - Addressing family functioning through systemic interventions
 - Parenting skills (reduce stress/distress, improve knowledge and skills)

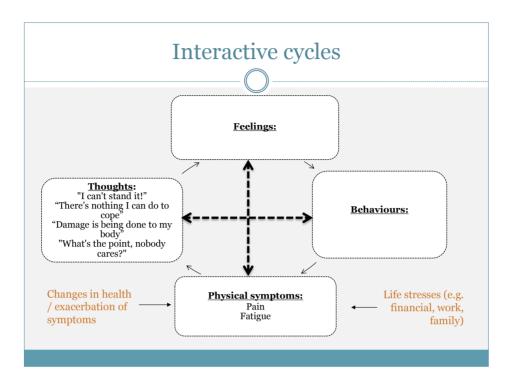
Psychological Difficulties in Children, Young People, and Families – Adherence

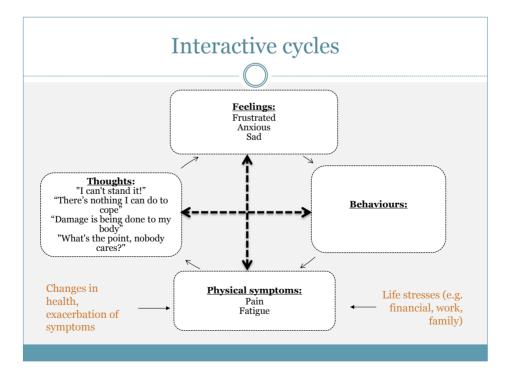
- Adherence to pharmacological treatments (e.g. analgesics, oral antibiotics) and non-pharmacological treatments (e.g. hydration) for SCD in children and adolescents varies widely.
- Family flexibility in problem solving and use of fewer passive coping strategies appear to promote adherence (Barakat et al., 2002).
- Adherence is higher for more concrete recommendations (e.g. followup clinic appointments), and worse for vague recommendations (e.g. hydration) (Barakat et al., 2005).
- Common issues associated with adherence:
 - Forgetting
 - Time constraints
 - Falling asleep
 - Running out of medication
 - Issues with obtaining refills

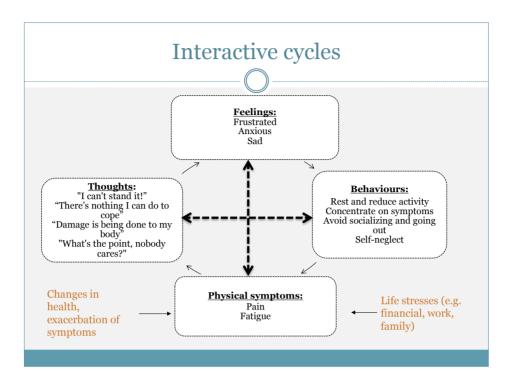


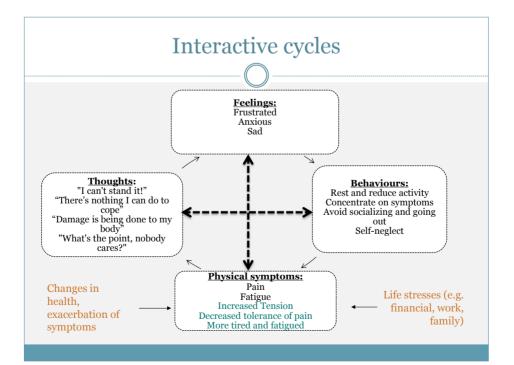






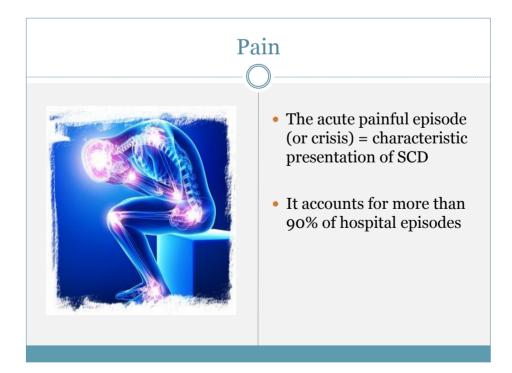


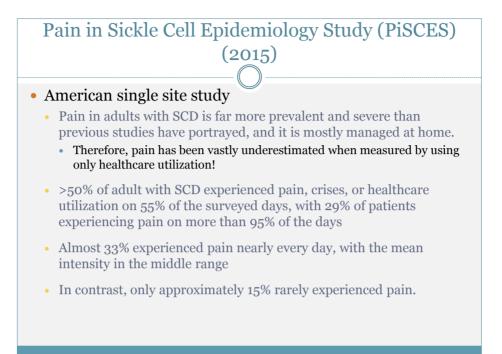


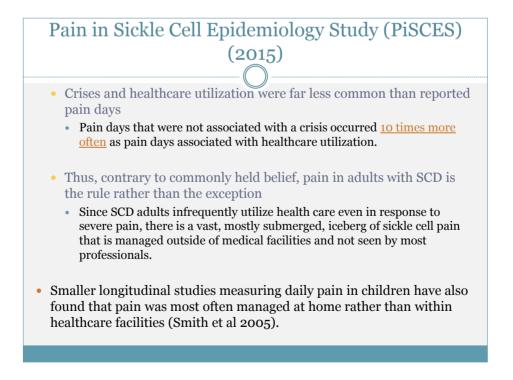


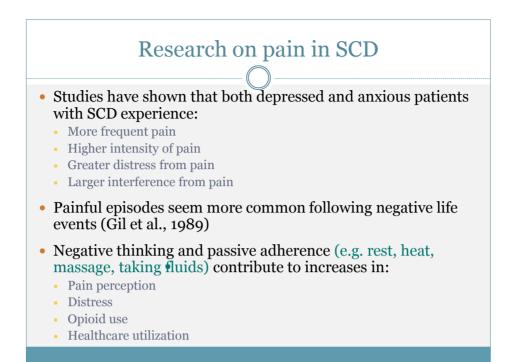
Role of Psychology in Pain





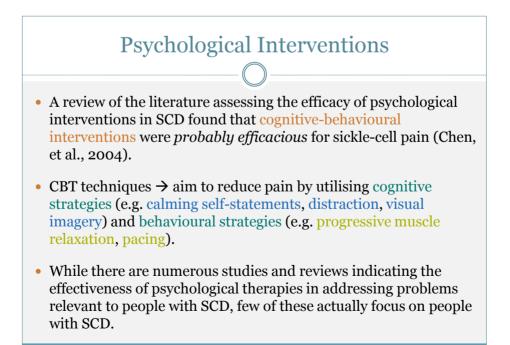




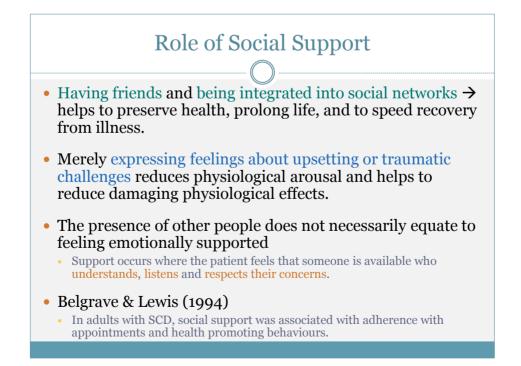




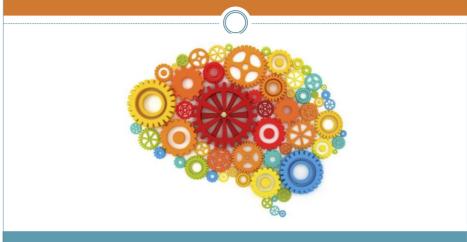


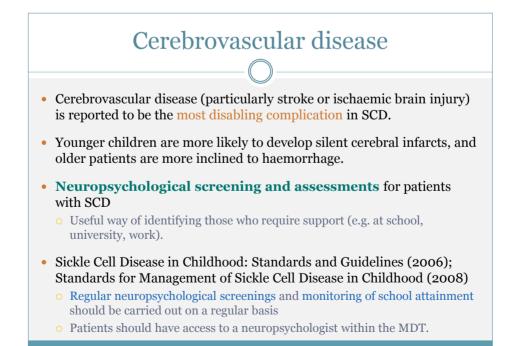


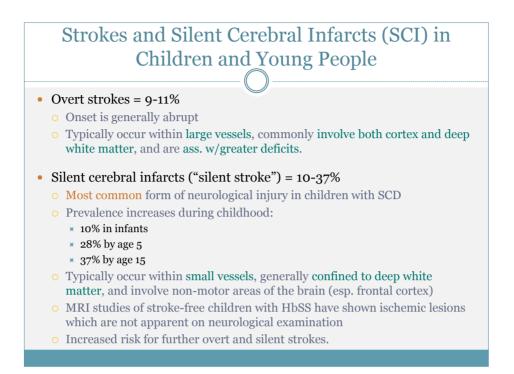




Neuropsychological complications of Sickle Cell Disease







Cognitive and Academic Functioning: Children and Young People

- Individuals with SCD of <u>all ages</u> are at risk for developmental delays, cognitive difficulties, and/or academic deficits.
- Overt strokes in patients with SCD:
 - Deficits in measures of general intelligence, language abilities, visual motor skills, sequential memory, and attention
- Silent strokes in patients with SCD:
 - Poor school/work performance
 - o Deficits in measures of executive functioning and attention/concentration
 - ★ Difficulties with paying attention, short-term memory, organising and planning, initiating tasks and staying focused on them, regulating emotions, self-monitoring
 - Becomes more apparent in later stages of primary education, when intellectual demands increase.

