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Developing simulation-based training for paediatric registrars using best evidence: Sepsis and the Phoenix Sepsis Criteria

Sepsis remains a major cause of childhood mortality worldwide. Approximately what proportion of paediatric sepsis cases and deaths occur in low- and middle-income countries (LMICs)?

- A. 25%
- B. 40%
- C. 60%
- D. 85%

Which of the following is considered a key component of the initial management of paediatric sepsis?

- A. Delayed antibiotic administration until culture confirmation
- B. Rapid but cautious fluid resuscitation with early antimicrobial therapy
- C. Avoidance of vasoactive drugs during early resuscitation
- D. Waiting for ICU admission before initiating treatment

Simulation-based learning experiences (SBLEs) are increasingly used in postgraduate medical training. What is the primary educational advantage of SBLEs in emergency care training?

- A. They replace the need for clinical exposure
- B. They allow repeated practice with feedback in a safe environment without risk to patients
- C. They focus mainly on theoretical knowledge acquisition
- D. They eliminate the need for structured debriefing

Precision prevention interventions for non-communicable diseases among youth in sub-Saharan Africa: A scoping review

Which statement best summarises the main finding of this scoping review regarding youth hypertension prevention in sub-Saharan Africa?

- A. Most interventions specifically targeted hypertension and used genomic risk profiling
- B. Several interventions targeted hypertension directly, but none used lifestyle modification
- C. Only a small number of interventions were identified, and none specifically targeted hypertension or used precision prevention
- D. The review found strong evidence that mobile health interventions were the most effective approach

According to the authors' criteria, which of the following would be considered a key component of a true precision prevention approach?

- A. Delivery of the same health education message to all participants
- B. Use of individual risk assessment with genetic or biometric data
- C. Restricting interventions to school-based settings only
- D. Using only media campaigns to improve awareness

Which of the following, identified in the review, could potentially aid hypertension-prevention interventions among youth in sub-Saharan Africa?

- A. Excluding household members to simplify delivery
- B. Embedding interventions in existing structures such as schools

- C. Relying only on one-off awareness sessions
- D. Avoiding involvement of peers and community leaders

Growth assessment of children and adolescents with type 1 diabetes mellitus at Steve Biko Academic Hospital in Pretoria, South Africa: A cross-sectional study of factors contributing to stunting

What was the prevalence of stunting in the study population?

- A. 5.2%
- B. 10.4%
- C. 23%
- D. 30.9%

Which factor was most strongly associated with stunting?

- A. Insulin regimen
- B. Duration of diabetes
- C. HbA1c >9%
- D. Gender

Which socioeconomic factor was significantly associated with stunting?

- A. Parental education
- B. Income category
- C. Food insecurity
- D. Transport costs

Necrotising enterocolitis in infants with in-utero SARS-CoV-2 exposure in Tshwane, South Africa

What is the proposed mechanism linking SARS-CoV-2 exposure to NEC in infants?

- A. Immune-mediated mechanisms
- B. Impaired adaptive immunity
- C. Disproportionate inflammatory response
- D. All of the above

Liu et al. showed that SARS-CoV-2 results in ongoing inflammation in exposed infants, as suggested by an increase in which marker?

- A. Interleukin-6 (IL-6)
- B. Angiotensin-converting enzyme 2 (ACE2)
- C. C-reactive protein (CRP)
- D. Procalcitonin (PCT)

Which statement regarding the relationship between SARS-CoV-2 and NEC in previously published studies is correct?

- A. Approximately one-third of the infants who developed NEC were born at term
- B. The majority of SARS-CoV-2-related NEC cases presented late (after 7 days)
- C. Pneumatosis intestinalis was visible on abdominal radiography in all cases
- D. There was increased mortality in infants with SARS-CoV-2-related NEC

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Disease profile and outcomes of neonates admitted to the paediatric intensive care unit at the Red Cross War Memorial Children's Hospital in Cape Town, South Africa

According to the article, which age group has the highest incidence of Landau-Kleffner syndrome?

- A. 1–9 years
- B. 2–10 years
- C. Under 9 years
- D. 3–8 years

Clinical features of Landau-Kleffner syndrome include:

- A. Progressive aphasia and epileptic encephalopathy
- B. Hearing loss
- C. Delayed language development
- D. Normal electroencephalogram

Which of the following statements about Landau-Kleffner syndrome is true?

- A. It is a form of infantile epileptic encephalopathy
- B. The exact cause is unknown
- C. Seizures are intractable to sodium valproate
- D. Steroid therapy is contraindicated in affected children

A rare case of congenital lymphoedema in a 6-month-old infant

Which neonatal patients are typically admitted to a NICU?

- A. Neonates with congenital abnormalities
- B. Premature neonates
- C. Neonates with perinatal asphyxia
- D. All of the above

In the observational study of neonates admitted to the PICU at RCWMCH, which statement is true?

- A. The majority of babies admitted had a normal birth weight
- B. The majority of preterm babies admitted had an acquired surgical condition
- C. Most admissions occurred during the winter months
- D. Non-survivors received more total parenteral nutrition than survivors

Congenital abnormalities accounted for a large proportion of admissions and deaths in the cohort of neonates admitted to RCWMCH PICU. Which statement is most likely to be true?

- A. Antenatal diagnosis could be improved by increasing access to fetal anomaly scans
- B. Whole-genome sequencing may be beneficial in critically ill neonates
- C. Seventy percent of neonates with congenital abnormalities die within the first year of life, even with access to corrective surgery
- D. A and B

A rare case of congenital lymphoedema in a 6-month-old infant

The gold standard investigation for confirming primary lymphoedema is:

- A. Doppler ultrasound
- B. Lymphoscintigraphy
- C. Plain radiography
- D. Computed tomography angiography

All of the following are features of Klippel-Trenaunay-Weber syndrome except:

- A. Limb overgrowth
- B. Cutaneous angiomas
- C. Venous disease
- D. Isolated bilateral lymphoedema

The mainstay of treatment for primary congenital lymphoedema is:

- A. Surgical intervention
- B. Drug therapy
- C. Conservative management with physiotherapy
- D. Radiotherapy

In the face of alobar holoprosencephaly: A case report

Which of the following is not classified as a subtype of holoprosencephaly?

- A. Lobar
- B. Semilobar
- C. Exlobar
- D. Alobar

Which of the following chromosomal abnormalities is most commonly associated with holoprosencephaly?

- A. Trisomy 21
- B. Trisomy 13
- C. Trisomy 18
- D. Deletion 13q syndrome

What is the most sensitive diagnostic finding for holoprosencephaly on postnatal cranial ultrasound?

- A. Absence of the "butterfly sign"
- B. Clear midline structures with separated cerebral hemispheres
- C. Monoventricle with fused thalami
- D. Intraventricular haemorrhage

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