CPD Challenge

Questions

Q1 Hydroxyurea Therapy in Sickle Cell Disease: Based on the available evidence on the use of hydroxyurea therapy among adults with sickle cell disease, which of the following is most important for achieving the benefits of treatment?

a. Avoiding all blood transfusions during treatment
b. Adherence to treatment and appropriate clinical monitoring
c. Maintaining low fetal hemoglobin levels
d. Using hydroxyurea only during vaso-occlusive crises
e. Discontinuing treatment once symptoms improve

Q2 Simulation-Based Education in Competency-Based Curricula: Regarding the introduction of simulation-based education into a competency-based curriculum, which of the following approaches is most likely to support effective learning?

a. Having students primarily observe simulations conducted by experienced facilitators
b. Minimizing discussion of learning objectives to allow students to discover them independently
c. Providing instructional and psychological support, actively involving students in the simulation, and encouraging discussion of the learning objectives
d. Conducting simulations without facilitator involvement to promote complete student independence
e. Focusing primarily on technical skills while leaving clinical reasoning to conventional classroom teaching

Q3 Communication Skills Training: Based on the available evidence on communication skills training, which curriculum change would most directly address an important gap identified by students?

a. Increasing didactic lectures on communication while reducing experiential learning
b. Increasing training in history-taking while reducing opportunities for practical communication
c. Increasing opportunities for practical, context-specific communication training and positive role-modelling by senior doctors
d. Allowing students to develop communication skills independently without observing practicing clinicians
e. Focusing communication training primarily on written communication rather than patient encounters

Q4 Global Surgery Indicators: Based on a systematic review of the Lancet Commission on Global Surgery indicators, which action would most directly address a major gap identified by the review?

a. Prioritizing an increase in the number of specialist surgeons without routinely measuring other indicators
b. Replacing national surgical indicators with hospital-level patient-satisfaction measures
c. Integrating surgical indicators into national health information systems and strengthening routine reporting
d. Relying primarily on modelled estimates because national data are generally unavailable
e. Focusing exclusively on increasing surgical volume as the principal measure of surgical-system performance

Q5 Robotic-Assisted Total Knee Replacement: In considering the adoption of an expensive robotic system for total knee replacement, which interpretation of the RACER-Knee trial is most appropriate when discussing the evidence with clinical and hospital management teams?

a. Robotic-assisted surgery should replace conventional knee replacement because it significantly improves patient-reported outcomes
b. Robotic-assisted surgery reduced serious adverse events compared with conventional surgery
c. Robotic-assisted surgery produced a clinically meaningful improvement in the Forgotten Joint Score at 12 months
d. Robotic-assisted surgery was more costly but did not demonstrate a clinically meaningful improvement in the primary patient-reported outcome
e. The trial demonstrated that robotic-assisted surgery is ineffective for all patients undergoing knee replacement

Answers

1. b).
2. c).
3. c).
4. c).
5. d).