

CPD questionnaires must be completed online at <https://members.samedical.org/>

Please note: The change in CPD question format comes from the accreditation bodies, who have informed us that CPD questionnaires must consist of a minimum of 5 questions, 80% of which should be MCQs with a minimum of 4 options and only 20% of which may now be in the form of 'True or false' answers.

MCQs may be of 'single correct answer' or 'multiple correct answer' format. Where the question states that more than one answer is correct, choose more than one of *i, ii, iii* or *iv* (anything from two to all answers may be correct), and then select the correct combination from answers a, b, c or d. Where the question states that only one answer is correct, mark the single answer that you think is correct.

Bridging the gap in rural and underserved areas through AI-enabled solutions

1. What are some of the structural and systemic barriers to healthcare experienced by rural and underserved communities?
 - a. Uncaring staff
 - b. Limited infrastructure
 - c. Long travel distances
 - d. Shortage of medical professionals
2. Which one of the following is an example of AI-powered mobile health solutions?
 - a. Predictive analytics
 - b. Telemedicine
 - c. Image recognition
 - d. AI chatbots

AI and its application within UK healthcare: British Medical Association perspective

3. Currently, what are some of the key areas of AI use in healthcare?
 - a. Haemodialysis
 - b. Peritoneal dialysis
 - c. Biomedical research
 - d. Population health and prevention
4. What are the three main patient safety risks from AI in healthcare?
 - a. Potential to slow up diagnosis and treatment
 - b. False-negatives in the form of missed diagnoses of disease
 - c. Unnecessary treatment due to false-positives
 - d. Unsuitable interventions due to imprecise diagnoses

AI in medicine: Hype, hope, and the path forward

5. What are some of the concerns expressed by physicians regarding the use of AI in healthcare?
 - a. Erosion of patient trust in their healthcare providers
 - b. Loss of income
 - c. Regulatory gaps
 - d. Bias
6. Which one of the following statements is correct regarding liability in the use of AI in healthcare?
 - a. It is well defined
 - b. It would be unusual for it to fall on multiple parties

- c. It is recommended that a risk-based approach to AI liability is used
- d. It is recommended that AI should be considered a replacement and not a partner.

7. What is the basis for bias in AI in healthcare?
 - a. AI is trained and learns from historical data
 - b. AI is inherently shaped by pre-existing and often unrecognised biases
 - c. AI can exacerbate healthcare disparities
 - d. AI can produce skewed recommendations.

AI 4

8. Which of the following statements are correct?
 - a. Section 27 of the Constitution mandates progressive realisation of socio-economic rights within available resources
 - b. Section 27 of the Constitution guarantees that everyone has the right to have access to healthcare services.
 - c. Section 27 of the Constitution guarantees the right to the use of artificial intelligence in healthcare
 - d. Section 27 of the Constitution guarantees the right to free speech in healthcare.
10. Which of the following establishes specific legal contours within which medical AI must operate?
 - a. The Birth and Deaths Registration Act
 - b. The Consumer Protection Act
 - c. The National Health Act
 - d. The Protection of Personal Information Act

11. In which of the following fields is medical AI already being used in SA?
 - a. Diagnostic imaging
 - b. Robotic surgery
 - c. Telemedicine
 - d. Caesarean sections

Data privacy and protection in AI-driven healthcare

12. Which one of the following statements is correct regarding a 2023 briefing by the South African Council for Scientific and Industrial Research regarding ransomware?
 - a. The CSIR reported that SA was the fifth most targeted country worldwide for ransomware

A maximum of 3 CEUs will be awarded per correctly completed test.

INSTRUCTIONS

1. Read the journal. All the answers will be found there.
2. Go to <https://members.samedical.org/> to answer the questions.

Accreditation number: MDB015/MPDP/038/400



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- b. The CSIR reported that SA was the sixth most targeted country worldwide for ransomware
- c. The CSIR reported that SA was the seventh most targeted country worldwide for ransomware
- d. The CSIR reported that SA was the eighth most targeted country worldwide for ransomware

13. Which of the following are sources of biomedical big data?

- a. GMO data
- b. Genomic data
- c. Medical records
- d. None

14. Which section of the Constitution of SA protects the fundamental right to privacy?

- a. 12
- b. 13
- c. 14
- d. 15

The ethics and law of medical AI in South Africa: Balancing innovation with responsibility

15. Why does the adoption of AI in healthcare depend on the availability of localised datasets?

- a. Algorithmic accuracy is improved.
- b. South Africa's healthcare system remains deeply unequal
- c. It results in more effective decision-making models
- d. It allows for tailoring to the region's unique healthcare challenges.

16. What percentage of SA's gross domestic product (GDP) is spent on healthcare?

- a. 6%
- b. 8.5%
- c. 10%
- d. 12.2%

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