

Medical Oxygen Sensors Revision Questions (Edition 1.0)

Please review the Introduction (DOCID 139844) and Technical (DOCID 181837) training notes in the document index and answer the following questions.

Please note: Some questions may have multiple answers.

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What does a medical oxygen sensor measure? *

- ☒ Partial pressure of oxygen
- ☐ Humidity in the environment
- ☐ Temperature of the gas
- ☐ Level of carbon dioxide

Which of the following is a noble metal used in sensor cathodes? *

- ☐ Zinc
- ☐ Copper
- ☐ Platinum
- ☒ Lead

Which of the following devices might use a medical oxygen sensor? *

- ☐ Blood glucose monitor
- ☒ Anaesthetic machine
- ☐ Thermometer
- ☐ Sphygmomanometer

What is the typical gas flow rate recommended for oxygen sensor calibration? *

- ☒ 2 - 5 l/min
- ☐ 10 - 15 l/min
- ☐ 0.5 - 1 l/min
- ☐ 6 - 8 l/min

What method does Maxtec use to slow down oxygen sensors and prolong shelf life? *

- ☐ Nitrogen flushing
- ☒ Applying a gas barrier tape
- ☐ Vacuum sealing
- ☐ Freezing the sensors

Above what oxygen concentration is calibration in 100% oxygen recommended? *

- ☒ 40%
- ☐ 21%
- ☐ 30%
- ☐ 50%

How should sensors be stored to maintain maximum shelf life? *

- ☐ In direct sunlight
- ☒ In sealed bags or with tape in place
- ☐ Inside a freezer
- ☐ Submerged in water

What is the theoretical lifespan in days of a sensor rated for 1,000,000 % oxygen hours when used in 100% oxygen? *

- ☐ 100 days
- ☒ 416 days
- ☐ 365 days
- ☐ 1000 days

Which of the following companies originally certified their sensors for medical use but no longer carry the correct accreditations? *

- ☐ Envitec
- ☐ Teledyne
- ☒ Maxell / Figaro
- ☐ ITG

Which of the following best describes a characteristic of the UFO sensor series? *

- ☐ Ultra-long lifespan
- ☐ Lead-free and disposable
- ☐ Compatible with all ventilators
- ☒ Ultra-fast response time

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