

SFHCHS224

Set up equipment to monitor physiological function



Overview

This standard relates to equipment and devices used in order to monitor an individual's physiological functions. Set up of equipment can be applied to both non invasive and invasive equipment used to monitor, modify or support an individual's physiological status.

Users of this standard will need to ensure that practice reflects up to date information and policies.

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Performance criteria

You must be able to:

- P1 work within your level of competence, responsibility and accountability
- P2 brief and inform members of clinical team on intended set-up
- P3 where appropriate, check that the clinical team will ensure that all lines, cannula and related access points will be prepared and ready for the equipment, medical devices and associated systems
- P4 apply appropriate health and safety and infection prevention and control measures and personal protective equipment to minimise the risks associated with procedures within your work practice
- P5 complete all relevant pre-set up operational checks on the correct equipment, medical device and consumables
- P6 prior to set up in the clinical environment, and ensure equipment and medical devices are operational, decontaminated and ready for use
- P7 where appropriate, pre check and confirm the alarm operational status
- P8 connect equipment and devices in the correct position and confirm they are in working order
- P9 conduct relevant operational set up checks to optimise performance
- P10 prepare sites for attachment of any portable monitoring devices
- P11 make necessary adjustments to accommodate the individuals clinical status, prior to attachment to the individual, ensuring safety to self, the individual and relevant others
- P12 confirm operation of monitoring systems and where appropriate set alarms or warning systems within expected parameters
- P13 where possible reassure individuals and relevant others, explaining purpose, process and expected outputs from devices and equipment
- P14 where the system is interconnected, confirm transmission and quality of signals at intended communication points
- P15 where the protocol requires, administer prescribed dose of pharmacological or other fluid substance at correct dose and by correct method
- P16 ensure the user understands the safe and effective use of the equipment, medical devices and monitoring systems
- P17 inform the user of the arrangements for technical and engineering support in the event of emergency
- P18 maintain full, accurate and legible records of information collected in line with current legislation, guidelines, local policies and protocols

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Knowledge and understanding

You need to know and understand:

- K1 your own level of competence, authority and specialist knowledge base related to monitoring physiological function and how, when and where to obtain expert advice and support
- K2 the range of stakeholders involved, their information needs, roles, responsibilities and capabilities and the protocols for interaction with them within your work practice
- K3 the range of health and safety measures, infection prevention and control and the relevant personal protective equipment , their importance and application within your work practice
- K4 the importance of risk analysis, risk assessments and the requirements relevant to set up of equipment and medical devices to monitor physiological function and the associated clinical risks
- K5 the normal and pathological principles of functional anatomy, physiology and their application relevant to your work practice
- K6 the principles of science and technology of the equipment, medical devices and associated systems
- K7 where appropriate, the importance of an overview of relevant pharmacology and requirements for administration of drugs or other fluids for measurement or to monitor and maintain physiological function
- K8 the range and capabilities, limitations and key properties of relevant equipment, medical devices and their associated systems to monitor physiological function within your area of responsibility
- K9 the importance of measurement principles, procedures and performance checks for set up of equipment, medical devices and associated systems and how to apply them
- K10 the importance of recognising factors, contra- indications and interdependencies which affect operational use, how to perform corrective actions and when and how to obtain advice and support
- K11 the significance and impact of the individual's condition, treatment regime or medication in the set up of equipment, medical devices and associated systems
- K12 the limitations involved whilst equipment is operational and linked to an individual receiving care and treatment
- K13 the range and extent of pre-set up checks required and their relevance to the procedure for monitoring physiological function
- K14 the range and types and number components and consumables required for setting up equipment and/or medical devices
- K15 the range of expected performance parameters of the equipment and/or medical device to maintain optimal physiological function and how to apply this in the clinical setting
- K16 how to check for validity and reliability of the set up tests conducted

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- K17 where appropriate, the importance of and how to set and check alarm or warning parameters on specific equipment
- K18 why it is important that the users who have responsibility for constantly monitoring the equipment are aware of their information needs and how to ensure these needs are met
- K19 how to communicate effectively in the appropriate medium to meet the recipients' needs and preferences advice
- K20 the importance of providing key information points at handover to users
- K21 the importance of maintaining records in line with current legislation, local policies protocols and procedures
- K22 the current national legislation, guidelines, local policies and protocols which affect your work practice
- K23 the policies and guidance that clarify your scope of practice, accountabilities and the working relationship between yourself and others

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Additional Information

External Links

This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004):

Dimension: HWB6 Assessment and treatment planning

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