

## Overview

This standard is about undertaking image guided interventional procedures. It covers invasive procedures and/or interventions performed under image guidance. This standard is relevant to various imaging modalities and should be used in your area of practice. Key people are those involved in the individual's care and others involved in provision of services. It is essential that any person undertaking this procedure be currently competent in appropriate life support and cardio-pulmonary resuscitation. Users of this standard will need to ensure that practice reflects up to date information and policies.

## Performance criteria

### *You must be able to:*

1. apply standard precautions for infection prevention and control, and other appropriate health and safety measures
2. check and prepare the equipment required for the procedure
3. ensure all necessary preparations have been made by the individual and staff before starting the procedure
4. ensure the environment is conducive to maintaining the privacy and dignity of the individual
5. introduce yourself and other members of staff present during the examination
6. check the identification details before commencing the interventional procedure in accordance with local policies and procedures
7. obtain valid consent for the procedure in accordance with national and local guidelines and protocols
8. communicate with the individual / key people to facilitate their understanding of and co-operation with the examination
9. establish the individual's capacity to understand the procedure with the help of key people if necessary
10. clearly explain the procedure and possible outcomes, including risk, benefits, limitations and alternatives
11. respect the individual's privacy, dignity, beliefs and decisions
12. review the clinical history for factors which might contraindicate the procedure
13. assess the individual for contra-indications to any medicines to be used in the examination and for any relevant allergies, and take appropriate action
14. ensure appropriate and recent imaging is available and assess relevant images and information prior to performing the procedure to confirm the location of the region/structure(s) of interest
15. make an assessment of the individual's emotional needs and respond appropriately
16. ensure that relevant checklists are completed prior to the procedure in line with local and national policies to highlight any potential problems before the procedure begins
17. select the correct equipment for the procedure according to national and local guidelines and protocols
18. take appropriate precautions to ensure a clean or aseptic technique as required

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19. ensure the individual is in an appropriate position and is as comfortable as possible for the procedure
20. administer local anaesthetic if required according to national and local guidelines
21. take appropriate steps to minimise the risk of work-related disorders
22. ensure the procedure is carried out correctly and in accordance with local policies and procedures
23. where required by the procedure, obtain any samples and label containers according to local guidelines and protocols
24. ensure all images are acquired, store and transferred in line with local guidelines and protocols
25. ensure dressings are applied where appropriate after the procedure
26. ensure immediate post-procedure observations are carried out according to national and local guidelines and protocols
27. recognise and respond to a deterioration in the individual's clinical condition in line with relevant national and local guidelines and protocols
28. provide the individual with information relating to the procedure and aftercare where necessary
29. explain the process for obtaining results
30. document the procedure according to national and local guidelines and protocols and make arrangements for results review
31. debrief the team according to local guidelines
32. communicate information to other members of the team as necessary

## Knowledge and understanding

*You need to know and understand:*

1. legal, organisational and policy requirements relevant to your role, the role of others in your organisation and the activities being carried out
2. the relevant national and local standards, guidelines, policies and procedures that are available and how and when they should be accessed
3. the national and local guidelines for acceptance of requests for image guided interventional procedures in your area of practice
4. the importance of obtaining valid consent in line with national and local guidelines
5. the principles and role of image guidance in your area of practice
6. the use of pre-intervention checklists and how they should be used according to local and national policies and procedures
7. how to keep full, accurate and clear records in line with organisational procedures
8. the limitations of your own knowledge and experience and the importance of operating within your scope of practice
9. the benefits and limitations of image guided interventional procedures in your area of practice
10. the role and importance of alternative, additional and complementary imaging techniques and investigations
11. clinical appropriateness of the examination request and the action to take when the request is not appropriate
12. how to undertake risk assessments for individuals prior to the procedure
13. the contraindications associated with each investigation and the implications of proceeding with due consideration of related risks
14. the preparation of the individual, environment and equipment for image guided interventional procedures in your area of practice
15. the importance of respecting individuals' culture, privacy, dignity, wishes and beliefs and decisions and how to do so
16. the roles and responsibilities of other team members
17. how to adapt communication styles, ask questions, and listen carefully in ways which are appropriate for the needs of the individual
18. methods of communicating difficult and complex information to individuals and key people

19. the importance of providing individuals and key people with opportunities to ask questions and increase their understanding
20. the information that should be given to individuals before, during and on completion of the examination
21. debrief procedures and how these should be used to ensure that any problems encountered during the procedure are recorded to inform future interventions
22. the anatomy, physiology and pathology of the anatomical structures under investigation
23. the pathophysiology of relevant disease processes
24. the clinical findings and imaging appearances associated with normal and abnormal anatomical structures
25. the safe use of local anaesthesia and other medicines used during the procedure or intervention
26. aseptic techniques and the potential consequences of poor practice
27. the importance of minimising any unnecessary discomfort of individuals undergoing interventional procedures, and how to do so
28. the management of emergency/acute complications that occur during the procedure
29. the safe use and manipulation of non-imaging equipment used during the procedure
30. the management, storage and transport of tissue samples where relevant
31. local procedures for image acquisition, storage and retrieval
32. the annotation and interpretation of relevant images and information to confirm the location of the region/structure(s) under investigation
33. procedures relating to recording, collating and preparing appropriate documentation and images for transfer or storage according to local protocols
34. how changes to image findings as a result of intervention may affect interpretation of future imaging procedures and decisions by others
35. safe operation of imaging equipment in your area of practice
36. the risks of work-related disorders and how to minimise the risks
37. machine settings and methods available to optimise the image in your area of practice

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**External Links**

This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004):  
Dimension: HWB7 Interventions and treatments

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