



Public health functions to be exercised by NHS England

Service specification No.24
Breast Screening Programme

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Public health functions to be exercised by NHS England

Service specification No.24
Breast Screening Programme

Prepared by –

Cancer Screening, Early Diagnosis and Skin Cancer Prevention Team

Department of Health

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Service specification No.24

This is a service specification within Part C of the agreement 'Public health functions to be exercised by the NHS Commissioning Board' dated November 2012 and amended by variation dated April 2013 (the '2013-14 agreement'). This service specification thereby comes into effect and supersedes service specification No.24 dated November 2012.

The 2013-14 agreement is made between the Secretary of State for Health and the National Health Service Commissioning Board ("NHS CB" or "NHS England") under section 7A of the National Health Service Act 2006 ("the 2006 Act") as amended by the Health and Social Care Act 2012. The 2013-14 agreement may refer interchangeably to NHS CB or NHS England.

This service specification is to be applied by the NHS CB in accordance with the 2013-14 agreement. An update to this service specification may take effect on an agreed date as a variation made in accordance with the 2013-14 agreement.

This service specification is not intended to replicate, duplicate or supersede any other legislative provisions that may apply.

The 2013-14 agreement including all service specifications within Part C is available at www.gov.uk (search for "commissioning public health").

1. Background and introduction

Purpose of the Breast Screening Specification

- 1.1. The purpose of this specification is to ensure that there is a consistent and equitable approach to the provision and monitoring of breast screening across England.
- 1.2. This document is designed to outline the service and quality indicators expected by the NHS Commissioning Board (NHS CB) to ensure that a high standard of service is provided to the NHS CB's responsible population. It therefore sets out the specific policies, recommendations, and standards services are expected to meet.
- 1.3. The service specification is not designed to replicate, duplicate, or supersede any relevant legislative provisions which may apply, e.g. the Health and Social Care Act 2008, or the work undertaken by the Care Quality Commission. In the event of new guidance emerging, the specification will be reviewed and amended with as much rapidity as possible, but where necessary, both the NHS CB and service providers should work proactively to agree speedy variations of contract ahead of the production of a revised specification.
- 1.4. This service specification needs to be read in conjunction with the current NHS Breast Screening Programme (NHSBSP) guidance and recommendations. These can be found on the Cancer Screening Programmes (CSP) website: www.cancerscreening.nhs.uk

Aims, objectives and health outcomes

Aims

- 1.5. The major aim of the breast screening programme is to reduce mortality from breast cancer. This will be achieved by delivering evidence-based, population-based screening programmes that:
 - identify the eligible population and ensure effective delivery with optimal coverage
 - are safe, effective, of a high quality, externally and independently monitored, and quality assured
 - lead to earlier detection, appropriate referral, and improved outcomes
 - are delivered and supported by suitably trained, competent, and qualified, clinical and non-clinical staff who, where relevant, participate in recognized

- ongoing Continuing Medical Education, Continuous Professional Development, and EQA schemes
- have audit embedded in the service.

Objectives

Activities prior to screening

- 1.6. In accordance with good management practice and experience, to ensure appropriate and efficient use of NHS resources, the NHSBSP shouldⁱ:
 - identify and invite eligible women for screening at appropriate intervals
 - provide the invited population with the information required, in the form in which it is required, so that women are able to make an informed choice about whether or not to participate
 - ensure that GPs are informed of screening in their area, and of the final outcomes of screening invitations
 - serve populations of no less than 500,000 and up to about one million.

Primary Screening

- 1.7. The NHSBSP should:
 - provide women who attend for breast screening with a high quality, effective, and people-centred service
 - carry out mammography in a way that minimises the possible adverse aspects of screening (e.g. radiation, discomfort, anxiety) and that maximises the benefits (i.e. detecting abnormalities at an early stage)
 - optimise attendance rates and maximise accessibility of the service for all groups in the community
 - use only equipment which meets the NHSBSP standards of image quality and radiation dose
 - allow women to opt out of the service, temporarily or permanently
 - provide adequate numbers of appropriately trained, qualified, and competent staff to carry out high-quality screening mammography
 - provide results within two weeks of attendance to screening for >90% of women.

Assessment, diagnosis, referral, follow-up

1.8. The NHSBSP should:

- undertake assessment and diagnosis of individuals with abnormal initial test results in appropriately staffed and equipped settings, at levels expected within the NHSBSP, and to the standards expected within the NHSBSP
- accurately diagnose cancers, with reference to MDT decisions, and refer women for treatment by appropriately trained and qualified specialists
- ensure that all women who undergo breast biopsies are discussed at a screening MDT
- ensure that test results (whether normal, benign, or abnormal) are communicated clearly, accurately, and promptly, in person, by a member of the clinical team
- return individuals without breast cancer to routine recall as soon as possible
- minimise the number of women placed on short term recall, keep the number below the NHSBSP maximum level, and monitor this practice assiduously
- assess at least 90% of women within three weeks of attendance to screening.

Standards

- 1.9. The NHSBSP should:
 - maximise the number of cancers detected
 - minimise the number of cancers presenting between screening episodes
 - maintain minimum standards of screening, whilst aiming for achievable standards (see Appendix 1)
 - participate in both approved national routine audits and ad hoc audits to evaluate overall programme performance.

Administration, failsafe

- 1.10. The NHSBSP should:
 - ensure effective and timely communication with the individuals who are invited, screened, assessed, or treated
 - ensure effective and timely communication with clinical multi-disciplinary teams, other screening centres, the NHS CB, Quality Assurance Reference Centres, NHS Connecting for Health, and the national office within PHE

- work within a seamless and integrated pathway
- apply NHSBSP failsafe guidance at all stages of the pathway
- ensure that the NHSBSP recommendations for handling incidents are adhered to, in addition to local reporting procedures.

Audit and Quality Assurance (QA)

1.11. The NHSBSP should:

- regularly audit and evaluate the programme to ensure that the service is delivered in a safe, effective, timely, equitable, and ethical way, in accordance with national policy and NHSBSP standards, guidelines, internal and external quality assurance arrangements, and risk assessments
- monitor, collect, and report statistical data and other relevant information
 to relevant bodies, use it to promote continuous improvement in service
 performance and outcomes, give formal feedback to the NHS CB and the
 population served by the programme, and provide key information and
 models of good practice/innovation/achievement to those working in the
 area of breast screening
- participate willingly in multidisciplinary QA Visits organised by the QA Reference Centres.

Information Technology (IT)

1.12. The NHSBSP should:

- use the programme's IT systems (NBSS and NHAIS) to manage women through the screening process, and to capture key screening data/outcomes promptly and accurately, supporting local and national QA and cancer registration processes and programme evaluation
- comply fully with local NHS CSP and NHS information governance requirements relating to the confidentiality and disclosure of patient information and system/information security.

Accreditation, training, guidance, research

1.13. The NHSBSP should:

 provide appropriate training (funded locally) to staff, supported by national continuing professional development and skills frameworks, enabling staff to continue to develop their skills, competencies, and potential. Only approved/accredited training courses should be used

- contribute to nationally-approved research into the screening and diagnosis of breast cancer, to inform screening practice and policy
- ensure that all pathology laboratories dealing with screening programmes are formally accredited by UKAS or equivalent
- ensure readers and pathologists reporting images and material participate routinely in PERFORMS and EQA schemes.

Common Health Outcomes

1.14. The NHSBSP aims:

- to reduce the number of women who die from breast cancer
- to maximise detection of breast cancer at stages 1 and 2 (PHE domain 2)
- to refer women promptly to treatment services
- to achieve high coverage levels across all groups in society
- to minimise adverse physical/psychological/clinical aspects of screening (e.g. anxiety, unnecessary investigation)
- to encourage early presentation of symptomatic cancers, which may develop between screening episodes.

2. Scope of the screening programme

Description of the screening programme

Activities Prior to Screening

- 2.1. In accordance with agreed management and professional best practice shown in Appendix 1, the NHSBSP should:
 - invite women who move into the screening catchment area, or who are registered with a GP in the screening catchment area, to attend for screening before their 53rd birthday. (This becomes their 50th birthday if they are invited as part of the programme extension trial)
 - ensure that women who have already attended for screening are screened again within 36 months of their previous screen
 - extend eligibility for breast screening to women aged 47 to 73 within agreed protocols
 - enable those who have received their final routine invitation to continue to be screened at 3 yearly intervals on request or as part of the programme extension trial
 - ensure that women who are not on NHS lists have access to screening, and that local arrangements are made to cover residential institutions, including prisons
 - contribute to optimising acceptance by liaison with GP practices (by visiting, telephone call, or in writing) and by providing practices with up-todate information about the Programme
 - ensure that referrals for high-risk screening are only taken from specialised services e.g. Genetics or Oncology. The screening programme is not expected to carry out risk assessments for these cases
 - Ensure that screening is provided to women at higher risk of breast cancer to NHSBSP protocols and standards (see Appendix 2).

Primary Screening

2.2. The NHSBSP should:

 encourage attendance by ensuring that the process of changing appointments is straightforward for those women who request this

- invite women at higher risk of breast cancer to be screenedwith appropriate modalities, at appropriate ages and intervals, according to NHSBSP protocols (see Appendix 2)
- send women who do not attend a second appointment letter, with a timed appointment
- encourage women to request screening if they are over the age where routine invitations are sent, and have not received an invitation as part of the age-extension trial
- keep supporting documentary evidence for any woman who is ceased from the programme for an indefinite time period. This information should be held by the screening service which would otherwise be responsible for her screening
- routinely cease only those women who have had bilateral mastectomies
- carry out annual audits on ceased women
- develop and regularly review a screening Round Plan to ensure that the appropriate population is covered and that invitations are sent promptly, in accordance with the timescales outlined above
- deal with women who request to be screened or assessed at an alternative screening centre according to agreed systems and protocols
- send results of basic screening to the woman within two weeks of her screening attendance
- enter only women who meet the criteria for high risk into the NHSBSP high-risk screening programme. Appendix 2 shows the groups covered and their agreed protocols
- ensure that image quality and radiation dose are optimised, with technical repeats minimised
- ensure that all equipment used complies with national equipment standards, and is tested routinely by appropriately trained staff and medical physics services, in accordance with NHSBSP guidelines
- ensure that all mammography X-ray systems used in the screening programme are Full Field Direct Digital Mammography systems, and that image quality and radiation dose meet acceptable standards
- ensure that staff working in the programme are trained to meet the required standards of competence and are actively involved in continuing personal and professional development.

Assessment, diagnosis, referral, follow-up

- 2.3. In accordance with NHSBSP standards and protocols, the NHSBSP should:
 - refer for assessment women with significant mammographic or MRI abnormalities, or significant screen-detected breast cancer signs or symptoms
 - offer women an appointment to an assessment clinic within three weeks of their initial screen
 - provide those attending follow-up appointments with clear information about the assessment process
 - utilize triple assessment for further investigations (needle test/ additional imaging/ clinical examination)
 - ensure that biopsy specimen imaging is available whilst the women is still positioned in the stereo X-ray equipment
 - discuss all women undergoing biopsy at a multidisciplinary team meeting
 - notify women and their GPs of the outcome of assessment. Results should be reported to the women in person, with a member of the clinical team present
 - refer women for open surgical biopsy, if this is necessary to confirm or exclude malignancy, before discharge or onwards referral from the programme
 - carry out localisations only in facilities that meet the NHSBSP standards
 - ensure that results of assessment are reported to the woman in person, by a member of the clinical team. Cancer diagnoses should be provided by the clinician leading the care of the woman

Standards

- 2.4. In addition to meeting the minimum standards in Appendix 1, the NHSBSP should:
 - ensure that all staff working in the NHSBSP are familiar with relevant and current QA guidelines
 - ensure that all staff maintain minimum standards, and adhere to NHSBSP guidance and recommendations via internal audit and external QA monitoring
 - take prompt action where standards are lower than expected to identify the causes and improve the service
 - agree early warning systems and triggers with the local QA team

- manage serious failures to provide services to the level specified in the NHSBSP QA guidelines according to NHSBSP protocolsⁱⁱ
- ensure that all programmes have a multidisciplinary QA Visit at least once every three years
- use nationally developed and agreed letters and leaflets.

Administration, audit, QA, failsafe, IT

- 2.5. The call/recall database used by the NHSBSP is the National Health Application Infrastructure Services (NHAIS) system, often called the 'Exeter system'. Although this is a national system, it is operated as about 80 separate local databases and maintained by local call and recall offices. These offices were previously referred to as 'family health service authorities', but their responsibilities passed to primary care trusts (PCT) and have now transferred to the NHS CB.
- 2.6. The Exeter system is able to perform numerous data searches, referred to as 'analysis jobs', which can identify individuals that fall within certain set criteria. Batches of eligible women are called from the NHAIS system by the screening programmes. Regular failsafe batches are requested by the breast screening offices to ensure that no individual is missed. In addition, women who have had a bilateral mastectomy, or who request cessation from screening are ceased from this system to ensure that they no longer receive invitations for screening.
- 2.7. Results of breast screening are automatically sent from the NBSS system to the NHAIS system to determine future call/recall management. The system runs national returns showing screening coverage (KC63).

2.8. The NHSBSP should:

- exploit the NHAIS/NBSS system to ensure that coverage is optimised and the care pathway is managed to its planned conclusion
- specify failsafe batches and run these at least once every three months to ensure that all eligible women are invited
- maintain, comply with, and regularly audit the Quality Management
 System and accompanying documentation. This will ensure that the right
 results are given, that the screening pathway is safe and seamless, that
 incidents are minimised, and that the programme's performance is
 optimised. The screening process should be entered into the IT system
 according to NHSBSP protocols (including direct entry of results) and the
 'Right Results' audit should be undertaken annually, with compliance
 demonstrated at QA visits

- ensure that all clinicians audit their own work in comparison to their peers and that they demonstrate a willingness to alter their practice if the outcome reveals this to be necessary
- subject to particular review the preceding screening episode, where a woman is subsequently diagnosed with interval or screen-detected cancer
- work with QARC staff to identify, and categorise, interval cancers and enter these onto NBSS in a timely manner
- audit, on an annual basis, all cases where women have requested screening or assessment at an alternative service
- provide statistical analyses of uptake and coverage, and of individual, professional and team performance on request to both the NHS CB and quality assurance within PHE.

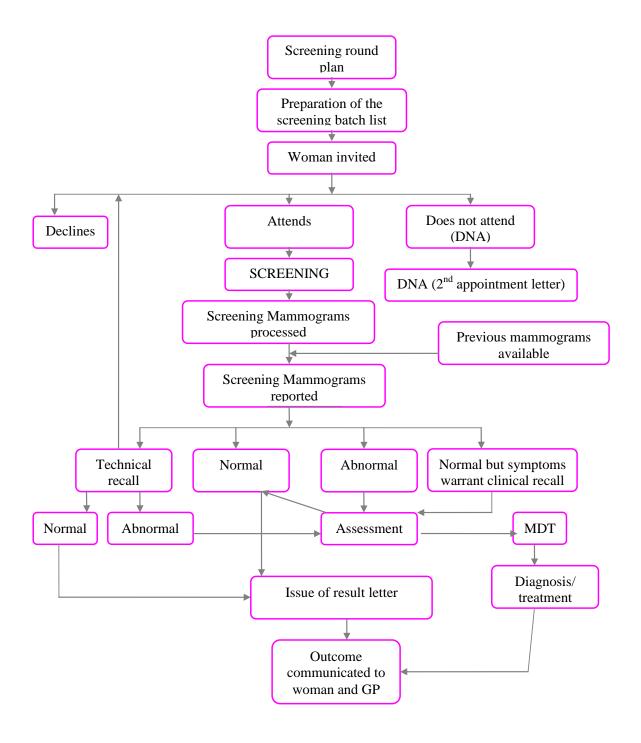
Accreditation, training, guidance, research

2.9. The NHSBSP should:

- ensure that all screening service staff regularly participate in quality assurance activities (including 3-yearly QA visits, the EQA scheme (pathologists), PERFORMS (film readers) and that all professionals meet CPD/CME requirements
- encourage eligible women to participate in appropriate clinical trials or studies.

Care Pathway

2.10. The flow diagram on the following page shows the pathway from development of a three year plan to the final outcome of the screening examination.



Failsafe arrangements

- 2.11. Quality assurance within the screening pathway is managed by the inclusion of failsafe processes. Failsafes are a back-up mechanism, designed to ensure that, where something goes wrong, processes are in place to identify: what is going wrong; and what actions are necessary to ensure a safe outcome.
- 2.12. The provider of an NHS Breast Screening service is expected to:

- include appropriate failsafe mechanisms across the whole screening pathway. Details of appropriate procedures are embedded in the guidance and recommendations on the NHSBSP's website (See, for example, the advice on second appointments, *Right Results*, MDT discussion of all needle tests, and the running of regular failsafe batches)
- review and risk assess local screening pathways in the light of guidance offered by Quality Assurance processes or the national office (PHE)
- work with the NHS CB and Quality Assurance teams to develop, implement, and maintain appropriate risk reduction measures
- ensure that mechanisms are in place to regularly audit implementation of risk reduction measures and report incidents
- ensure that appropriate links are made with internal provider governance arrangements, such as risk registers
- ensure routine staff training and ongoing development take place.

Roles and accountabilities

- 2.13. The breast screening programme is dependent on systematic, specified relationships between stakeholders, which include treatment services, the laboratory, genetics services, external diagnostic services, Primary Care representatives, etc. The provider will be expected to take the lead in ensuring that inter-organisational systems are in place to maintain the quality of the whole screening pathway. This will include, but is not limited to:
 - providing coordinated screening across organisations, so that all parties are clear about their roles and responsibilities at every stage of the screening pathway, and particularly where responsibility is transferred from one party to another
 - developing joint audit and monitoring processes
 - agreeing joint failsafe mechanisms, where required, to ensure safe and timely processes across the whole screening pathway
 - contributing to any initiatives led by the NHS CB or Public Health England (PHE)to develop the screening pathway in line with the NHSBSP expectations
 - maintaining robust electronic links with IT systems and relevant organisations across the screening pathway
 - agreeing links with primary care, and with secondary and/or tertiary care.

Commissioning arrangements

2.14. Breast screening services will be commissioned by the NHS CB alongside specialised commissioning of cancer services. Minimum data requirements for the NHS CB are shown in Appendix 3.

Links with the National Programme and 'Do once and share'

2.15. Certain functions of English national CSP are managed from PHE by the office of the CSP. National guidance documents can be accessed via the NHSBSP websites.

3. Delivery of the screening programme

Service model summary

- 3.1. In accordance with the national standards, the service will provide all necessary steps required to diagnose or exclude breast cancer. This includes mammography breast screening and subsequent assessment for those women who require recall after their initial screen, and open biopsy (where required). Screening a woman identified by genetics services to be at high risk of breast cancer may involve MRI.
- 3.2. The screening programme will be offered to eligible women at a maximum interval of 36-months, according to the criteria specified by the NHSBSP. Screening of women will commence within three years of the specified starting age.
- 3.3. All women registered with a GP in the catchment area, and those resident in the area without a GP but eligible for NHS care, are included. Particular arrangements will be made for women in border areas who have Scottish or Welsh GPs. The service will invite women aged from 50 to 70 years of age. It will screen women aged 71 or over on request every three years.
- 3.4. Women who have been assessed by specialised services and categorised as having a higher risk of developing breast cancer, and who meet the eligibility for screening within the NHSBSP (Appendix 2), will be included in the screening programme at a younger age and according to different protocols, following an appropriate referral from a Genetics or Oncology service.
- 3.5. If the optimal deliverable benefits from a screening programme are to be achieved, there must be seamless links between 'screening responsibility' and 'treatment responsibility', so that women at the end of the screening process are referred to treatment services, once diagnosis with breast cancer is made explicit.
- 3.6. All elements of the screening pathway must be delivered by appropriate staff, to national standards and guidelines.

Population coverage

- 3.7. The NHS CB and service providers will work together to:
 - ensure that up-to-date population registers and lists of GP registered populations are maintained and cleaned to guarantee accuracy and completeness
 - optimise coverage and uptake across their catchment area

- cooperate with regular analysis of breast screening coverage to identify groups of women who either access breast screening at lower levels, or do not access services at all
- deliver screening and assessment from agreed accommodation, which is appropriate to house the equipment needed for Full Field Digital Mammography (FFDM), and ensuring that the number and location of which meet the needs of the resident screening population and also national and regional screening guidelines
- ensure that the uptake rate for attendance meets NHSBSP minimum standards (see Appendix 1).
- 3.8. The NHS CB will provide annual estimates of the eligible population for at least three years ahead, based on the current population database.

Programme Coordination

- 3.9. The provider will be responsible for ensuring that the programme it delivers is coordinated. Where collaboration is necessary, the provider should take the lead in ensuring that one part of the programme interfaces seamlessly with others, particularly in the areas of timeliness and data sharing. This will ensure that the aims and objectives of the NHSBSP are met.
- 3.10. The provider will ensure that one or more named individuals will be responsible for the coordination of planning and delivery. They should be given appropriate administrative support to ensure timely reporting and response to requests for information.
- 3.11. A named Director of Breast Screening and Programme Manager should be appointed, and each should be given resources to carry out these roles effectively. These individuals will be actively involved in the screening programme. The provider will ensure that adequate cover arrangements are in place to ensure the sustainability and consistency of the programme. The Director will have overall clinical responsibility for the service and its quality.
- 3.12. The provider should meet with the NHS CB at regular intervals (at least annually). The meetings will include representatives from programme management, clinical services, laboratory services, and service management.

Clinical and corporate governance

- 3.13. The provider of breast screening will:
 - ensure that staff cooperate with, and are represented on, the local screening oversight arrangements/ structures this might include the local office of the NHS CB and local authority Health and Wellbeing Boards

- identify responsibility for the screening programme at Trust Director level, or delegated responsibility
- ensure that there is appropriate internal clinical oversight of the programme's management, and that internal governance is overseen by both a Clinical Lead (the Director of Breast Screening) and a Programme Manager, who will establish regular screening multi-disciplinary team meetingsⁱⁱⁱ
- regularly monitor and audit the screening programme as part of organisation's clinical governance arrangements, thus assuring the organisation's board of the quality and integrity of the service
- comply with the NHSBSP guidance on managing serious incidents^{iv}
- put appropriate arrangements in place to refer individuals to appropriate treatment services in a timely manner
- provide evidence of clinical governance and effectiveness arrangements on request
- report annually to the trust board on the performance of the local breast screening service. The report should identify areas of difficulty and plans to address these^v
- have a sound governance framework in place covering the following areas:
 - information governance/records management
 - equality and diversity as defined by the Equality Act 2010
 - user involvement, experience and complaints
 - failsafe procedures
 - communications
 - ongoing risk management
 - health and safety
 - insurance and liability.

Definition, identification, and invitation of cohort/eligibility

- 3.14. The target population to whom screening is to be offered comprises all women in the eligible age group who are registered on specified NHAIS systems with specified GPs, or who are resident in the specified area and not registered with the NHS in England but entitled to NHS care.
- 3.15. Additionally, women are eligible for high-risk screening if they are referred from Genetics or Oncology services, and meet the agreed criteria in Appendix 2. Screening programmes are not expected to carry out risk assessments and will not take direct referrals from GPs.

- 3.16. The target age group for routine screening is 50-70. Women who do not attend their appointment can subsequently refer themselves to the programme.
- 3.17. The provider will ensure that women not routinely invited over the age range can continue to be screened every three years. The provider will make every effort to maximise screening uptake from vulnerable and hard-to-reach groups within the eligible population.

Location(s) of programme delivery

- 3.18. Screening will take place in suitable and appropriate mobile or static locations, which take account of the public transport links and car parking arrangements.
- 3.19. MRI screening should only be carried out by services that meet the MRI Technical Guidelines developed by the NHSBSP.

Days/hours of operation

3.20. The days and hours of operation will be locally determined and suitably accessible for the target population. However, timeliness of screening and assessment is essential, and this is a key criterion of quality along all parts of the screening pathway. Services should be able to demonstrate efficient and effective use of resources.

Working across interfaces

- 3.21. The screening programme is dependent on strong working relationships (both formal and informal) between the professionals and organisations involved in the screening pathway. Accurate and timely communication and handover across these interfaces are necessary to reduce the potential for errors and ensure a seamless pathway for service users. There must be clear, named lines of clinical responsibility at all times, and particularly where there is handover of care. These lines of clinical responsibility must be stated in an operational policy within the programme.
- 3.22. The provider will ensure that appropriate systems are in place to support timely and seamless referral to treatment services^{vi}. This will include, but is not limited to:
 - agreeing and documenting roles and responsibilities relating to all elements of the screening pathway across organisations
 - providing strong clinical leadership and clear lines of accountability.
 - developing joint audit and monitoring processes
 - working to agreed NHSBSP standards and policies

- agreeing jointly, between all agencies, on the failsafe mechanisms that are required to ensure safe and timely processes across the whole screening pathway
- meeting the NHSBSP screening programme standards.

3.23. Procedures at interfaces should follow these guidelines:

- Letters with timed appointments should be sent to women
- Where women do not attend a first appointment, a second timed appointment should be sent by letter
- A Radiographer/ Assistant Practitioner should provide diagnostic quality mammograms to the expert readers and must meet NHSBSP standards for training and experience
- Readers should recall appropriate women for further assessment
- Office staff should send letters to recall women for further assessment and to deliver normal results
- Women called back to assessment should have access to a clinical nurse specialist
- Women should be given the results of their assessment in person by appropriately trained clinical staff in the most appropriate format to meet their needs
- A failsafe system should ensure laboratory receipt of correctly identified needle samples
- The laboratory service should provide timely results to the screening MDT, to facilitate decision making
- MDT outcomes should be accurately recorded on the breast screening IT system
- GPs should be informed of screening attendance and outcomes
- Symptomatic services should inform screening services about interval cancers
- Genetics services should send only appropriate referrals and should be informed of screening outcomes.

3.24. In addition, see section in Chapter 2 on the Care Pathway.

Information on test/screening programme

- 3.25. The provider will ensure that, at relevant points throughout the screening pathway, women are provided with approved information on breast screening and breast cancer treatment.
- 3.26. Where English is not a woman's functional language, a trained interpreter should be available during all appointments, and appropriate written information provided. Similarly, where a woman has a physical or learning disability, appropriate support should be provided to allow her to understand all processes and results.

Testing (performance of tests by individuals)

- 3.27. Screening units are expected to follow policy guidance and standards for screening mammography (and MRI, where appropriate).
- 3.28. Screening units are also expected to enter routine data onto the National Breast Screening Information System (NBSS) in a timely manner and in the required format, as specified in NHSBSP manuals and guidance.

Results reporting and recording

- 3.29. All images from the initial screening examination must be reported directly onto the NBSS system promptly by the reader who is directly responsible for those results.
- 3.30. The Programme will record conclusive results on the information system for the whole screened population.

Providing results

- 3.31. Women will be notified of a normal result from the screening process within two weeks of the initial examination by letter. Their GP will also be informed.
- 3.32. The results of needle tests undertaken at an assessment visit will be given by a Clinician.
- 3.33. The Clinical Nurse Specialist will be available to support the women as required after a benign diagnosis or a diagnosis of cancer.

Scope for cancer screening

3.34. The NHSBSP includes all investigations necessary to prove or disprove the presence of breast cancer.

Transfer of, and discharge from, care obligations

3.35. The screening programme covers the period from identification of the eligible population to diagnosis. On diagnosis, women will be transferred efficiently to

- treatment services. Any post-treatment follow-up will be the responsibility of the treatment services.
- 3.36. Women who have had breast cancer diagnosed will continue to receive invitations for screening if they remain eligible, although they should be advised to contact the screening office for advice about their particular case.

Exclusion criteria

- 3.37. This specification does not include the following activities, or any work or cost associated with them:
 - Women below the current eligible age group (unless they meet the highrisk criteria)
 - Women who are not eligible for NHS care
 - Women who have had bilateral mastectomy
 - Symptomatic referrals
 - Post diagnosis follow-up and management
 - The treatment of breast cancer
 - Women who do not meet the criteria for higher-risk screening within the NHSBSP.
- 3.38. See Clause 54 of *The Standard Terms and Conditions for Acute Hospitals* (Gateway Reference 15458) for the contractual requirements for equity of access, equality, and the avoidance of discrimination.

Staffing

- 3.39. The provider will ensure that there are adequate numbers of trained, qualified, and competent staff in place to deliver a high-quality breast screening programme, in line with best practice guidelines and NHSBSP national policy.
- 3.40. Qualifications will be specific to the groups of staff delivering the service across the care pathway. However, all staff must demonstrate competence in their area (this is linked to training).
- 3.41. The provider will have in place a workforce plan designed to maintain a sustainable programme, especially where an increase in the eligible population is predicted (generally this is the case until 2027) and/or where there are difficulties in the recruitment of appropriately qualified healthcare staff.
- 3.42. All professionals involved in the NHSBSP screening programme are required to keep up-to-date with nationally approved training programmes and CPD/CME etc. and to participate in educational schemes such as PERFORMS and histopathology EQA as appropriate.

User involvement

- 3.43. The provider will continue to:
 - demonstrate that they have collected (or have plans in place to collect) the views of service users, in respect of the services they provide
 - demonstrate how those views will influence service delivery for the purposes of raising quality
 - show that all women are given information about how to provide feedback about services they receive, including the complaints procedure.
- 3.44. Collection of the views of service users will often be via surveys or questionnaires. It is expected that such surveys will take place on a regular (rather than ad hoc) basis and that the results will be made available to the NHS CB. This is to ensure public involvement in the provision of services.

Premises and equipment

- 3.45. The provider will ensure that:
 - suitable premises and equipment are provided for the screening programme
 - only mammography equipment evaluated by the NHSBSP is used for screening
 - Full Field Direct Digital mammography is the only modality used for routine screening. MRI may be used for higher-risk women according to NHSBSP protocols
 - appropriate policies are in place for equipment calibration, maintenance, and replacement
 - the NBSS database is able to support the programme and to supply data for the purpose of national standards and Key Performance Indicators
 - failsafe routines are run on NBSS.

Key Performance Indicators

3.46. The provider will adhere to the requirements specified in Appendix 1.

Data collection and monitoring

3.47. There is a requirement for breast screening services to provide routine data to the NHS CB and PHE in a timely manner.

- 3.48. Breast screening services will also contribute to national data collection exercises where required, and will provide annual data measuring performance against both standards and the Key Performance Indicators.
- 3.49. The Key Performance Indicators are shown at Appendix 1.

Data reporting

- 3.50. Data is reported to the NHS CB and PHE on a quarterly and annual basis. Appendix 3 shows routine data requirements
- 3.51. Consolidated annual reports of KC62 (activity) and 63 (coverage) are currently published by the Health and Social care Information Centre and show service comparisons.

4. Service standards, risks and quality assurance

Key criteria and standards

- 4.1. Providers must meet at least the minimum and achievable NHSBSP standards found in Appendix 1, as well as adhering to specific professional standards which can be found on the NHSBSP website.
- 4.2. The national office of the NHSBSP supports health professionals in their endeavour to meet these standards and deliver a high quality breast screening programme. A number of resources to support health professionals are available on the NHSBSPs website.

Risk assessment of the screening pathway

- 4.3. Providers are expected to have an internal quality assurance process that assures the quality assurance team within PHE and the NHS CB of their ability to manage the risks of running a screening programme. Providers may use the Failures Modes and Effects Analysis (FMEA) method, which is recommended by the NHS National Patient Safety Agency's risk assessment programme. Risks should be defined in the standard NHS format (where likelihood and severity are multiplied to give a RAG score).
- 4.4. Providers are expected to maintain a register of risks. They should work with the NHS CB and QA staff to identify key areas of risk in the screening pathway, and should ensure that these points are reviewed in contracting and peer review processes. On a quarterly basis, high-scoring risks will be identified and agreed between the provider and the NHS CB, and plans put in place to mitigate these.

Quality assurance

4.5. The provider will:

- meet national programme standards, or have plans in place to meet them
- participate fully in national quality assurance processes and respond in a timely manner to recommendations made
- ensure that data on participation in external quality assessment programmes are available to the national office (PHE), and the NHS CB
- collect and submit minimum datasets as required, to assure the NHS CB and the quality assurance team in PHE of the safety and quality of the services provided

- participate in the 3-yearly QA visit process and provide required data for these visits in a timely fashion
- review, categorise, and record interval cancers in a timely manner and inform QA as required.

Serious incidents

- 4.6. Complex screening pathways often involve multidisciplinary teams working across several NHS organisations in both primary and secondary care, and inappropriate actions within one area, or communication failures between providers, can result in serious incidents. A serious incident (SI) for screening programmes is defined as an actual or possible failure at any stage in the pathway of the screening process which exposes the programme to unknown levels of risk, for example where screening or assessment have been inadequate, with potentially serious consequences for the clinical management of individuals. Though level of risk to an individual in an incident may be low, because of the large numbers of women involved in screening programmes, this may equate to a very high corporate risk.
- 4.7. Potential serious incidents or serious near misses in screening programmes should be investigated with the same level of priority as actual serious incidents.
- 4.8. The provider will:
 - comply with the NHSBSP incident handling guidance
 - have a serious incident policy in place, and ensure that all staff are aware if it and of their responsibilities within it
 - inform the national office (PHE) and the NHS CB, within 24 hours, in the
 event of a serious adverse event and provide all reasonable assistance to
 the NHS CB in investigating and dealing with the incident. This will assist
 in the development of a national picture of risk identification and
 management
 - comply with appropriate statutory regulations (eg the Data Protection Act, COSHH Regulations etc) to ensure a safe working environment
 - review their procedures and processes against the NHSBSP Programme standards to reduce the likelihood of incidents occurring
 - have a robust system in place, allowing concerns to be raised about the quality of care, and adequate arrangements to be made for the investigation of such concerns.

Continual service improvement

- 4.9. Where national recommendations and core and/or developmental standards are not currently fully implemented, the provider will be expected to use service plans to indicate the changes and improvements that will be made over the course of the contract period.
- 4.10. The provider will develop a CSIP (Continual Service Improvement Plan) on the basis of the findings of the KPIs and the results of internal and external quality assurance checks. The CSIP will respond to any performance issues highlighted by the NHS CB, paying due regard to concerns raised via service user feedback. The CSIP will contain action plans with defined timescales and responsibilities, and will be agreed with the NHS CB.

5. Costs

5.1. The age expansion randomisation trial will be funded directly from PHE for the length of the trial. Amounts will be calculated according to the Age Expansion Implementation Guide.

6. Teaching and research activities

- 6.1. Screening programmes will participate in the age expansion trial unless they are deemed unsuitable by the national cancer screening office in PHE. In the latter case, they will be advised to implement screening of women aged 47-49 for as long as the trial continues.
- 6.2. Any research activities undertaken by the provider must have the appropriate approvals and the national office should be informed.

Appendix 1: Current National Minimum Standards for the NHSBSP¹

| Objective | Criteria | Minimum standard | Achievable standard |
|---|---|--|--|
| To maximise the number of eligible women who attend for screening | The percentage of eligible women who attend for screening | ≥70% of invited women to attend for screening | 80% |
| To maximise the number of cancers detected | a) The rate of invasive cancers detected in eligible women invited and screened | Prevalent screen ≥3.6 per 1,000 Incident screen ≥4.1 per 1,000 | Prevalent screen ≥5.1 per 1,000 Incident screen ≥5.7 per 1,000 |
| | b) The rate of cancers detected that are <i>in situ</i> carcinoma ² | Prevalent screen ≥0.5 per 1,000 Incident screen ≥0.6 per 1,000 | |
| | c) Standardised detection ratio (SDR) | <u>≥</u> 1.0 | <u>≥</u> 1.4 |

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¹ Taken from current published NHSBSP guidance documents

² In situ carcinomas include ductal carcinoma in situ (DCIS), lobular carcinoma in situ, and microinvasive disease

| Objective | | Criteria | Minimum standard | Achievable standard |
|-----------|---|---|--|--|
| 3. | To maximise the number of small invasive cancers detected | all invasive cancers than 15 mm in diameter detected in | | Prevalent screen ≥2.8 per 1,000 Incident screen ≥3.1 per 1,000 |
| 4. | 4. To achieve optimum image quality a) High contrast spatial resolution b) Minimal detectable contrast 5-6 mm detail 0.5 mm detail 0.25 mm detail c) Optical density | | ≥12 lp/mm <1.2% <5% ≤8% | ≤ 0.8% ≤ 3% ≤ 5% |
| 5. | To limit radiation dose | Mean glandular dose per exposure for a standard breast at clinical settings | <2.5 mGy | |
| 6. | To minimise the number of women undergoing repeat examinations | The number of repeat examinations | <3% of total examinations | <2% of total examinations |
| 7. | To minimise the number of women screened who are referred for further tests ³ | a) The percentage of women who are referred for assessment | Prevalent screen <10% Incident screen <7% | Prevalent screen <7% Incident screen <5% |
| | | b) The percentage of women screened who are placed on short term recall | <0.25% | <u><</u> 0.12% |

³ Further tests include all second appointments, where procedures (including further views and/or clinical examination) beyond those normally undertaken at first appointment are carried out

| 8. To ensure that the majority of cancers, both palpable and impalpable, receive a non-operative tissue diagnosis of cancer | (a) The percentage of women who have a non-operative diagnosis of cancer by cytology or needle histology after a maximum of two visits | <u>></u> 90% | <u>></u> 95% |
|---|---|---|--|
| | (b) The percentage of women who have a non-operative diagnosis of DCIS by cytology or needle histology after a maximum of two attempts | <u>></u> 85% | <u>></u> 90% |
| To minimise the number of unnecessary operative procedures | The rate of benign biopsies | Prevalent screen <1.5 per 1,000 Incident screen <1.0 per 1,000 | Prevalent screen <1.0 per 1,000 Incident screen <0.75 per 1,000 |
| 10. To minimise the number of cancers presenting between screening episodes in the women screened | The rate of cancers presenting in screened women a) in the two years following a normal screening episode b) in the third year following a normal screening episode | 1.2 per 1,000 women screened the first two years1.4 per 1,000 women screened | d in |
| 11.To ensure that women are recalled for screening at appropriate intervals | The percentage of eligible women whose first offered appointment is within 36 months of their previous screen | ≥90% | 100% |
| 12. To minimise anxiety for women who are awaiting the results of screening | The percentage of women who are sent their result within two weeks | <u>></u> 90% | 100% |

| 13. To minimise the interval from the screening mammogram to assessment | The percentage of women who attend an assessment centre within three weeks of attendance for the screening mammogram | <u>></u> 90% | 100% |
|--|---|-----------------|------|
| 14. To minimise diagnostic delay for women who are diagnosed non-operatively | Proportion of women for whom the time interval between non-operative biopsy and result is one week or less | ≥90% | 100% |
| 15.To minimise the delay for women who require surgical assessment | Proportion of women for whom the time interval between the decision to refer to a surgeon and surgical assessment is one week or less | ≥90% | 100% |
| 16. To minimise the delay between referral for investigation and first breast cancer treatment | The percentage of women who are admitted for treatment within two months of the date of referral ⁴ | ≥90% | 100% |

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⁴ Date of referral is the date of last read on the NBSS computer system

| <u>Objective</u> | <u>Criteria</u> | Minimum standard | Achievable standard |
|---|--|--|---|
| These are the aims of the NHSBSP in relation to specific quality issues | These are the parameters by which the achievement (or non-achievement) of the objective will be measured | These figures represent the levels of performance that are the minimum acceptable for any breast screening unit. Where the minimum standard is shown as 'greater than' or 'equal to', any level of performance below that standard should be investigated by the QA team. Similarly, where the minimum standard is shown as 'less than' or 'equal to', any level of performance above that standard should be investigated by the QA team. | If the programme is to achieve a reduction in mortality similar to that in the Swedish two county trial, over 50% of UK units have to achieve these standards for invasive cancer detection rate (objective 1); attendance (objective 6); and round length (objective 7). All units should aim to achieve these three key standards, which define the quantity of the mortality reduction. The other achievable standards relate to the quality of the screening process and should be achievable individually by one-third of units within the NHSBSP. |

Standards shown in italic apply only to programmes where all women have been fully screened, i.e. women who have been invited for screening from the age of 50 up to and including the age of 70.

See *Quality Assurance Guidelines for Breast Cancer Screening Radiology.* NHS Cancer Screening Programmes, 2011 (NHSBSP Publication No 59), which includes (and, in some instances, updates) standards contained in *Consolidated Guidance on Standards for the NHS Breast Screening Programme.* NHS Cancer Screening Programmes, 2005 (NHSBSP Publication No 60).

Appendix 2: High risk surveillance protocols⁵

| Ref | Risk | Ages | Surveillance Protocol | Frequency | Notes |
|-----|-------------------------------------|-------|-----------------------|------------------------------|--|
| 1 | a) BRCA1 or b) BRCA2 carrier or | 20-29 | n/a | n/a | Review MRI annually on basis of background density |
| | c) Not tested, equivalent high risk | 30-39 | MRI | Annual | , and the same of the same of |
| | | 40-49 | MRI + Mammography | Annual | |
| | | 50+ | Mammography + MRI | Annual | |
| 2 | TP53 (Li-Fraumeni) | 20-29 | MRI | Annual | Review MRI annually on |
| | | 30-39 | MRI | Annual | basis of background density |
| | | 40-49 | MRI + Mammography | Annual | |
| | | 50+ | Mammography + MRI | Annual | |
| 3a | A-T homozygotes | 25+ | MRI | Annual | No mammography |
| 3b | A-T heterozygotes | 40-49 | Mammography | 18 monthly | Routine screening from 50 |
| | | 50+ | Mammography | Routine screening (3 yearly) | |

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⁵ See NHSBSP publication 74

| 4 | Supradiaphragmatic radiotherapy- | 30-39 | MRI | Annual | Surveillance commences at |
|---|----------------------------------|-------|--------------------------|--------|-------------------------------|
| | irradiated below age 30. | | | | 30, or 8 years after first |
| | - | 40-49 | MRI <u>+</u> Mammography | Annual | irradiation, whichever is the |
| | | | | | later. Review MRI annually |
| | | 50+ | Mammography + MRI | Annual | on basis of background |
| | | | | | density. |

Policy for short term recalls:

| 5a | Repeat MRI < 6 weeks | If recall is within 6 weeks of |
|----|----------------------|--------------------------------|
| | | the original assessment |
| | | then it should be part of the |
| | | same episode |
| 5b | Repeat MRI > 6 weeks | If recall is after 6 weeks |
| | | then should be logged as a |
| | | short term recall episode. If |
| | | recall then usually it would |
| | | be at 6 months. |

NOTES:

All mammography must be direct digital mammography to optimise dose and sensitivity.

All MRI must be carried out in accordance with *Technical Guidelines for Magnetic Resonance Imaging for the Surveillance of Women at High Risk of Developing Breast Cancer* (NHSBSP Publication No 68). Sheffield: NHS Cancer Screening Programmes, January 2012.

Background density assessment for continuation of MRI should be based on individual clinical judgement.

Where a woman cannot tolerate MRI, she and her lead radiologist should discuss and agree potential alternatives (e.g. wide scanners).

Screening should be suspended during pregnancy until about 6 weeks after cessation of lactation, due to the fact that the high density of the lactating breast inhibits interpretation of the image.

Ultrasound should not be used as a routine screening or surveillance technique.

For waiting time purposes, the 62 day wait period begins with the decision to recall for assessment. Where two screening examinations take place (mammography and MRI) the clock starts when the second examination is reported, provided that no other investigation has been deemed necessary after the initial mammography. If an abnormality is seen on the first examination then this should be investigated immediately, and the 62 day wait begins straight away.

Supradiaphragmatic radiotherapy means any treatment in the area of the thorax.

Untested but equivalent high risk would be as defined by a Geneticist.

Appendix 3: Routine data requirements

The Screening Programme Manager will provide the NHS CB with the following information:

Annually

- Results of a local client satisfaction survey
- List of completed Medical Physics surveys
- Screening services to provide tables summarising the number of eligible women in each year of the 3 year screening round and details of the 3 year screening programme including the location and timing of mobile screening
- Annual report (including a report against measures in Appendix 1)
- Number of interval cancers reviewed and categorised

Quarterly (to monitor against standards in Appendix 1, source: KC62 data)

- Number of women invited and screened (% uptake)
- Number referred for assessment (% referral)
- Number of women on short term recall (% short term recall)
- Waiting times (source NBSS reports)
 - Screen to normal result
 - Screen to actual assessment
 - Screening round length
- Technical recall/repeat rates (%)
- Summary of complaints
- Number and proportion of clinics cancelled
- Details of any untoward incidents

Appendix 4: NHSBSP guidance not otherwise referenced

Quality Assurance Guidelines for Pathologists. NHSBSP Publications No 2, July 2011 (3rd edition)

Quality Assurance Guidelines for Surgeons in Breast Cancer Screening. NHSBSP Publication No 20, March 2009 (4th edition)

Guidelines for Clinical Nurse Specialists in Breast Cancer Screening. NHSBSP Publication No 29, January 2008, 4th edition (revision forthcoming)

Quality Assurance Guidelines for Radiographers. NHSBSP Publications No 30, March 2000:

Quality Assurance Guidelines for Medical Physics Services. NHSBSP Publication No 33, June 2005 (2nd edition)

Quality Assurance Guidelines for Administrative and Clerical Staff. NHSBSP Publication No 47, January 2012 (forthcoming)

Clinical Guidelines for Breast Cancer Screening Assessment. NHSBSP Publication No 49, June 2010, 3rd edition.

Information and Advice for Health Professionals in Breast Screening. NHSBSP Publication No 53, December 2002 (revision forthcoming)

The Right Results – Guide to the Correct Processing and Issuing of Results. NHSBSP Publication No 55, May 2003, (revision forthcoming)

External Quality Assessment Scheme for Breast Screening Histopathology. NHSBSP Publication No 57, October 2003.

Guidelines for Pathology Reporting of Breast Disease. NHSBSP Publication No 58, January 2005. (revision forthcoming)

Quality Assurance Guidelines for Breast Cancer Screening Radiography. NHSBSP Publication No 59, March 2011 (2nd edition)

Screening for Breast Cancer in England: Past and Future. NHSBSP Publication No 61, February 2006.

Quality Assurance Guidelines for Mammography including Radiographic Quality Control. NHSBSP Publication No 63, April 2006:

Improving the Quality of the Written Information sent to Women about Breast Screening: Evidence-Based Criteria for the Content of Letters and Leaflets. NHSBSP Publication No 64, August 2007

Improving the Quality of the Written Information sent to Women about Breast Screening: Guidelines on the Content of Letters and Leaflets. NHSBSP Publication No 65, August 2007.

Uncertainties in the Management of Screen-detected Ductal Carcinoma In Situ. NHSBSP Publication No 66, July 2008

Technical Guidelines for Magnetic Resonance Imaging for Surveillance of Women at Higher Risk of Developing Breast Cancer. NHSBSP Publication 68, January 2012. (revision forthcoming)

Guidance Notes for the Acquisition and Testing of Ultrasound Scanners for use in the NHS Breast Screening Programme. NHSBSP Publication No 70, April 2011.

Commissioning and Routine Testing of Mammographic X-ray Systems – Institute of Physics and Engineering in Medicine. IPEM Report No 89 2005.

Commissioning and Routine Testing of FFD Mammography Systems or Commissioning and Routine Testing of Full Field Digital Mammography Systems. NHSBSP Equipment Report 0604, September 06, Version 2, (revision forthcoming)

Age Extension Implementation Guide. NHSBSP Publications (internal document), April 2010

Out of Area Screening. NHSBSP Publications (internal document), January 2012

Protocols for the Surveillance of Women at Higher Risk of Developing breast cancer, NHSBSP Publication 74; December 2012

Guidelines on *organising* the surveillance of women at higher risk of developing breast cancer in an NHS Breast Screening Programme. NHSBSP Publication 73,March 2013

References

ⁱ Breast Cancer Screening Report to Health Ministers of England, Scotland, N Ireland and Wales ed Sir Patrick Forrest DH 1986

ii Guidelines for Managing Incidents in the NHSBSP, pub. 44, January 2009

iii Organising a breast screening programme NHSBSP Publication No. 52: December 2002

iv Guidelines for Managing Incidents in the Breast Screening Programme. NHSBSP Publication No 44, January 2009

v Guidelines on Quality Assurance Visits. NHSBSP Publication No 40, October 2000, (2nd edition)

vi Professor Mike Richards, National Cancer Director Dear Colleague letter to health and social care professionals on Cancer Waits **Gateway reference**: 10900 2 December 2008