

# Leading Transformation in the Ultrasound Workforce

Dr Pamela Parker Consultant Sonographer, HUTH BMUS Workforce Strategy Officer

### Declarations



- Head of Department Ultrasound Hull University Teaching Hospitals
- Workforce Strategy Officer BMUS
- Steering group NHSE International Recruitment project

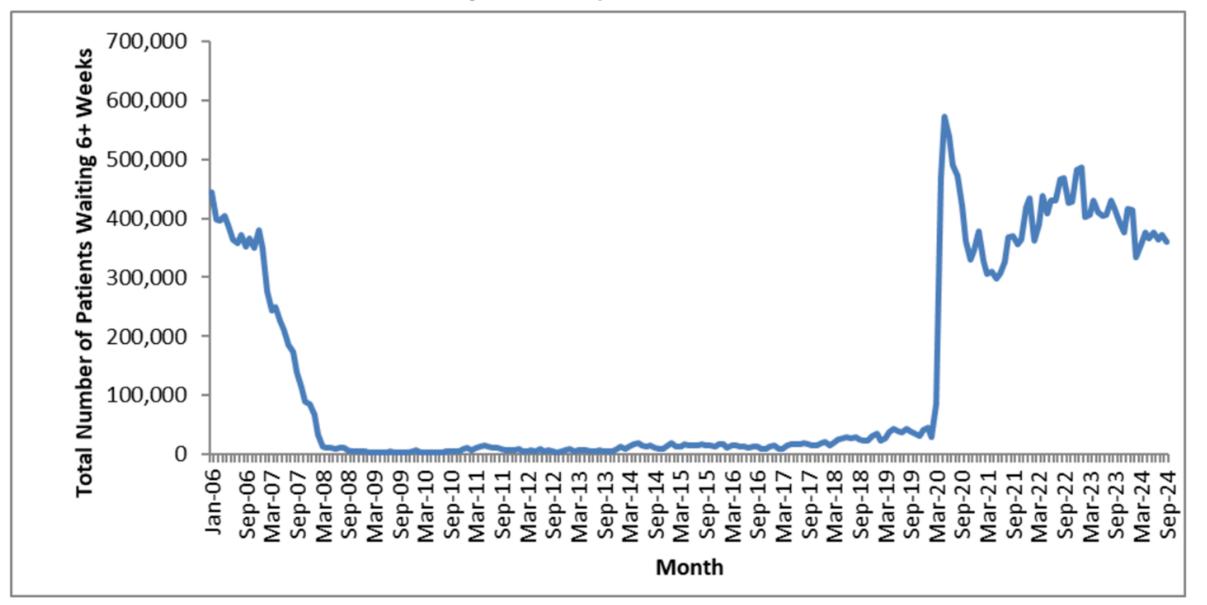




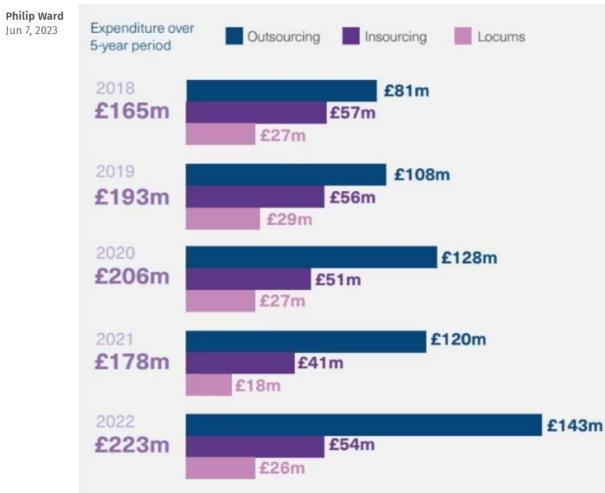
#### **Aims and Learning Outcomes**

Why do we need transformation? Recruitment Retention Role Extension & promotion What difference can sonographers make to pathways

#### Chart 1: Total number of patients waiting 6+ weeks at month end for all tests January 2006 to September 2024

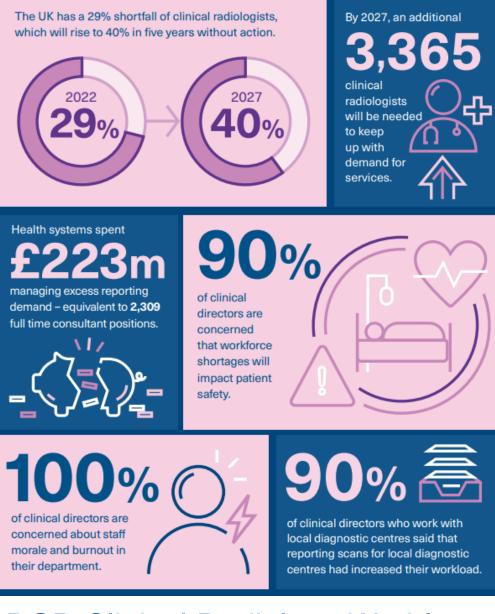


## U.K. turns to outsourcing to cope with 'chronic' staff shortages



Outsourcing "is costing us a small fortune," said one clinical director. Source: RCR.

https://www.auntminnieeurope.com/clinical-news/molecular-imaging/article/15657918/uk-turns-to-outsourcing-to-copewith-chronic-staff-shortages



RCR Clinical Radiology Workforce Census 2022 The College of Radiographers

Diagnostic Radiography Workforce UK Census 2020



The average current UK vacancy rate across respondents is 10.5% at the census date of November 2020.

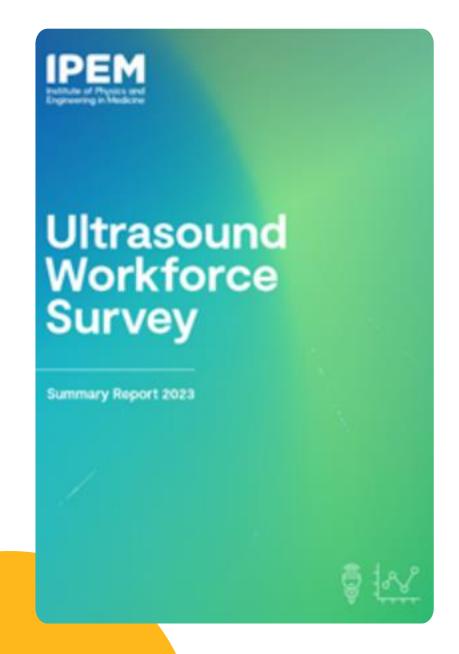


#### Securing the future workforce supply Sonography workforce review



March 2017

www.cfwi.org.uk



- Headline vacancy rate of 24% for Ultrasound Scientists
- Lack of very senior Ultrasound Scientist positions becomes a barrier when medical physicists are deciding on career options.

#### Unfilled vacancies

- Aging workforce
- Aging population with poorer health
- Lack of training capacity within NHS
- Difficulty to retain staff within the NHS (often a direct result of competition from the private sector due to competitive salaries)

https://www.bmus.org/mediacentre/news/bmus-response-to-nhs-10-year-plan/ 04.12.2024





https://www.belfasttelegraph.co.uk/news/world-news/oap-webcam-couple-are-youtube-stars/28658465.html

- 24% of the sonographer workforce is aged 51-60,
- The implications for the workforce in the coming years is potentially huge.

https://www.bmus.org/mediacentre/news/bmus-response-to-nhs-10-year-plan/

#### Current position....?



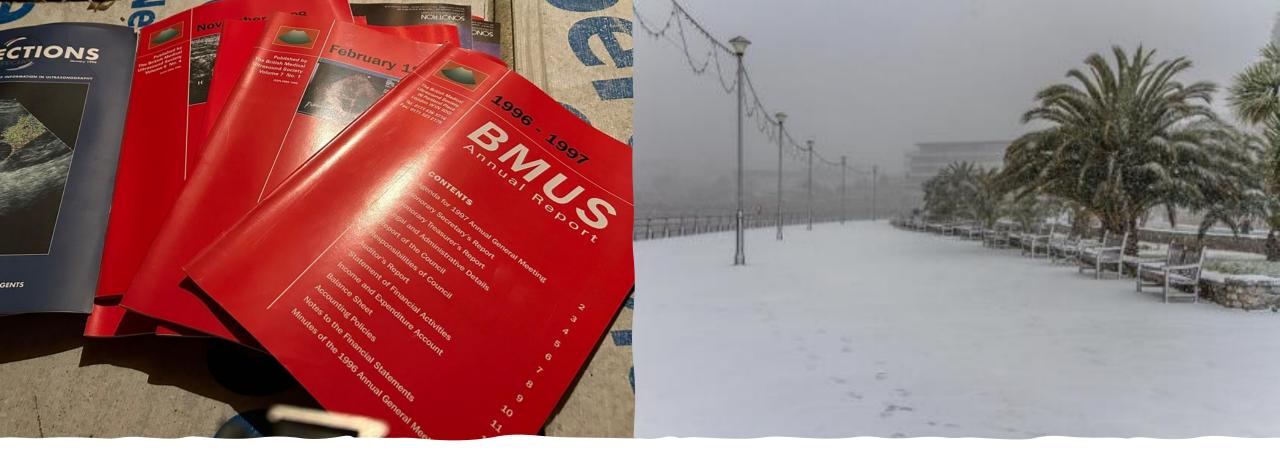
#### Sonographer input needed for the SoR Ultrasound Census

Help shape the future of sonographer regulation by sharing your insights in the SoR 2024 Ultrasound Census

Published: 02 December 2024

Ultrasound

https://www.sor.org/news/ultrasound/sonographer-input-needed-for-the-sor-ultrasound-ce



# Back in the day.....



#### Radiology U/S

Radiologist (s)

**Senior I Radiographer** 

**Basic Grade Trainee** 



Bates, J. A., Conlon, R. M. & Irving, H. C. (1994) An audit of the role of the sonographer in non-obstetric ultrasound. *Clinical Radiology*, 49(9), 617-620.

#### The Previous Structure – AfC ~2004



Leslie, A., Lockyer, H. & Virjee, J. P. (2000) Who should be performing routine abdominal ultrasound? A prospective double-blind study comparing the accuracy of radiologist and radiographer. *Clinical Radiology*, 55(8), 606-609.



# Sonography Profession

Guidelines For Professional Working Standards

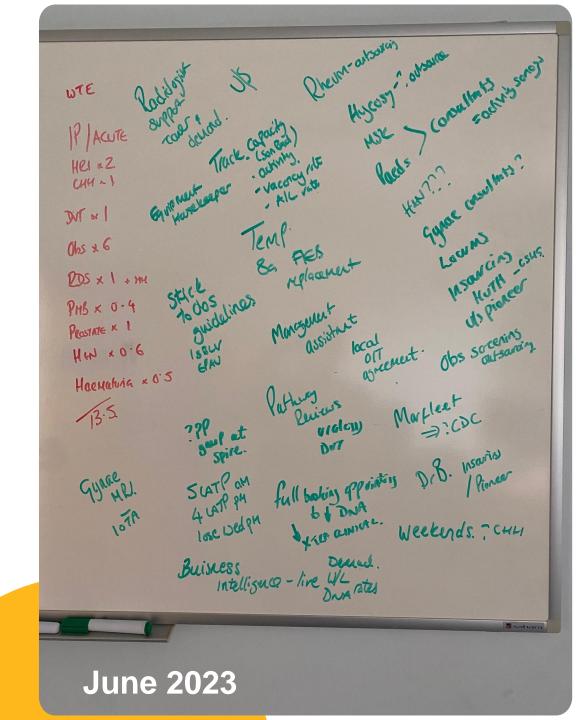
> Ultrasound Practice

United Kingdom Association of Sonographers October 2008

## Changing Landscape

- GP Fund Holding (~ 2001)
- Independent Sector Providers (~ 2010)
- Changes to NHS Careers funding (2012)
- Technology developments 3D/4D leading too social scanning





# What options are there to cope?

- Ration services?
- Out-source?
- Radiologist input?
- POCUS
- Restructure?
- Recruit?
- Train more?

• Developments, including direct access to Postgraduate ultrasound and the development of Undergraduate ultrasound courses (including apprenticeships), are revolutionising the pool from which sonographers can be recruited.



https://www.bmus.org/mediacentre/news/bmus-response-to-nhs-10-year-plan/

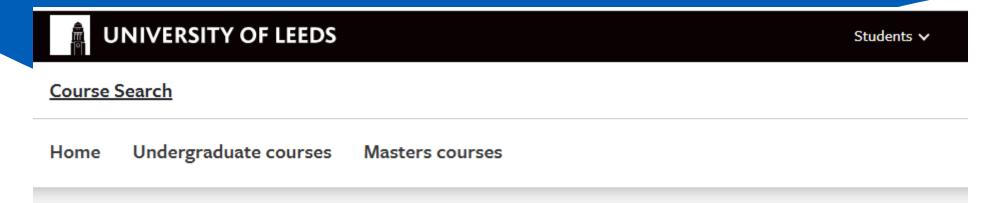
 This apprenticeship is designed to teach the skills, knowledge and behaviours needed to develop clinical practice in ultrasound and diagnostic imaging.

Sheffield Hallam University Knowledge Applied		
Study	Research	Alumni
Study / Higher and degree apprenticeships / Health an		

## Sonographer

Level 6 degree apprenticeship BSc (Hons) Medical Ultrasound

https://www.shu.ac.uk/study-here/higher-and-degree-apprenticeships/health-andsocial-care/sonographer



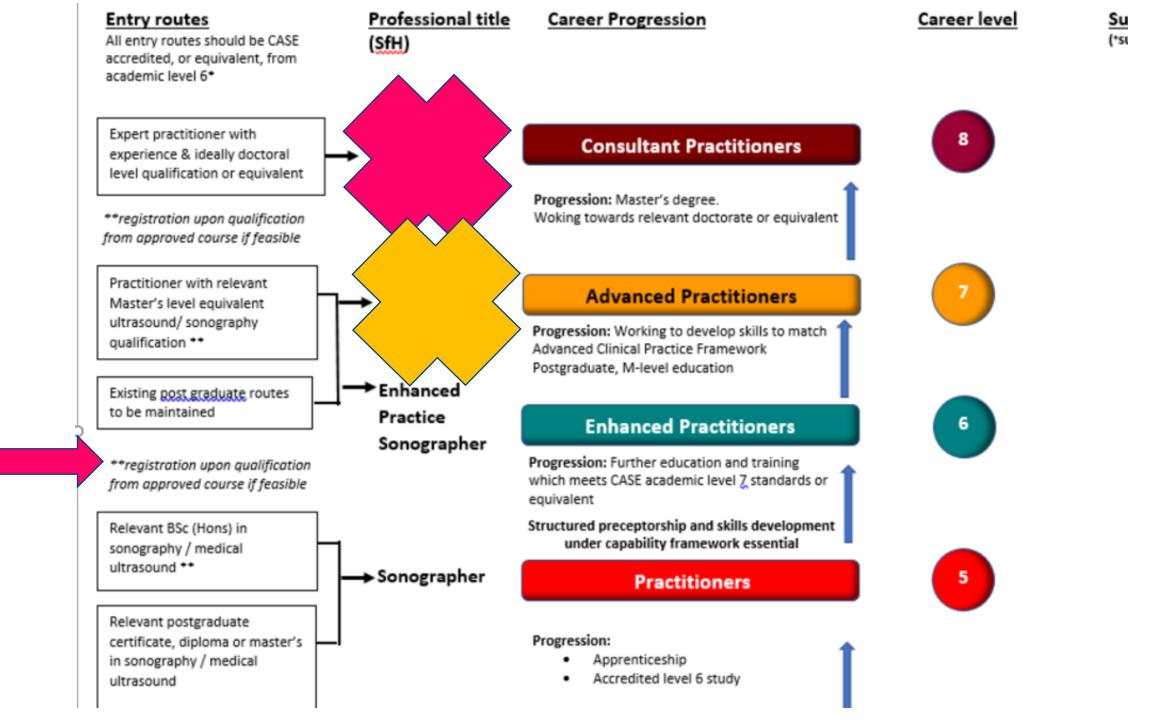
## Medical Ultrasound (Sonography) BSc

Comprehensive training in both technical knowledge and professional skills, and gain an understanding of medical ultrasound's scientific, technical and professional concepts

https://courses.leeds.ac.uk/j755/medical-ultrasound-sonography-bsc

- Whilst these routes of education make recruitment availability broader, proficiency is still not quick to achieve; taking a minimum of 2-3 years, followed by a period of preceptorship.
- BSc Sonography is not eligible for bursary and expenses which the comparable BSc radiography students are

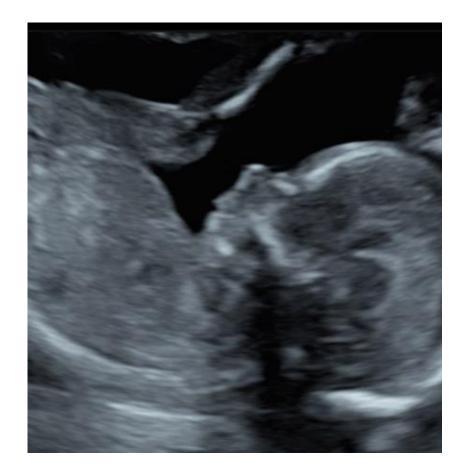
https://www.bmus.org/mediacentre/news/bmus-response-to-nhs-10-year-plan/



## FASP

**NHS FASP** recommends that any person undertaking an ultrasound scan on pregnant women, for the purpose of screening and diagnosis of a related condition should hold, as a minimum, one of the following:

- Certificate/Diploma in Medical Ultrasound of the College of Radiographers (CoR) with evidence of appropriate CPD
- **Post Graduate** Certificate in Medical Ultrasound approved and validated by a Higher Institute of education and accredited by the Consortium for Sonographic Education (CASE or equivalent).
- Royal College of Obstetricians and Gynaecologists (RCOG) Royal College of Radiologists (RCR) Diploma in Obstetric Ultrasound or the Advanced Skills Training Module.





CASE Programme Equivalence Issued April 2023

It is not within the remit of CASE to comment on 'equivalence' of non-CASE accredited programmes or individual practitioner's qualifications. As ultrasound is not a registered profession in the UK, the ultimate responsibility for assessing the equivalence of an award held by any employee, and ensuring that the knowledge, skills, and competence of sonographers are appropriate for UK practice, resides with the employer. This applies to **any** sonographer with or without a CASE accredited award and regardless of the country of qualification

#### Non-CASE Recruitment

This guidance document aims to assist ultrasound teams and recruiters in the recruitment and preceptorship of sonographers without a CASE accredited award by referring to relevant information.

It does not replace good recruitment and selection processes currently in place locally

Guidance Pages | BMUS



Recruitment of sonographers without a CASE accredited award: Guidance for employers

Society of Radiographers and British Medical Ultrasound Society

First edition October 2024

ISBN:

# International Recruitment NHS England **Community Diagnostic Centres** Sonographer International Recruitment steering group

#### International Recruitment

NHS

England

Community Diagnostic Centres Sonographer International Recruitment steering group

#### Sonographer international recruitment plan

The Sonographer International recruitment plan adopts the process from 23/24, takes the learning from this recruitment and the considerations put forward by members of this steering group. Skilled candidates with proficiency in scanning as per mapped equivalence to UK competencies will be appointed into funded posts with a 3-month funding provided for bridge training as well as all relocation costs.

Trusts will be asked to sign up to a permanent position with a minimum 2-year contract and 5-year visa. The core streams of work and objectives are as follows:

Objective 1: Develop and implement a conversion program for international candidates that enables registration and assures equivalence

Objective 2: Develop international attraction strategy and supply pipeline Objective 3: Recruit up to 42 international sonographers substantively by March 2025

#### Sonographer international recruitment plan

#### **Project Plan**

**Objective 1:** This scheme aims to provide a registered, CASE accredited route for international sonographers. The scheme will engage with training academies to deliver a CASE equivalence clinical assessment and competency training program that meets the requisite standards.

**Objective 2 and 3:** To enable the supply an attraction strategy that profiles the candidates' qualifications and opens the international supply to the UK with a clinical sonographer validation and assessment process.

The core countries include Canada, Australia, New Zealand, South Africa and Ireland. Trusts will commit ensuring candidates are appointed into post with assurance for a 2-year contract as a minimum.

#### Retention



 The goal of this is to establish a work environment that encourages employee satisfaction, engagement, and loyalty,

## First Post Retention

Why apply to be endorsed?

 The scheme has been designed to help departmental managers and ultrasound leads support, develop and retain their valuable workforce

https://www.bmus.org/preceptorship-endorsement-scheme/

BMUS Preceptorship Endorsement Scheme

BMUS»

Produced by the British Medical Ultrasound Society

#### Preceptorship

#### Suggested Scope of Practice during preceptorship programme:

• Obstetrics:

1st and 2nd trimester FASP screening performed independently, subject to FASP requirements and acquisition of DQASS number.

A range of obstetric examinations which includes early pregnancy and third trimester cases and lower risk multiple pregnancies.

• Gynaecology:

GP and hospital cases, as competencies develop

• General medical:

Abdominal and pelvic scans for GP and hospital cases, as competencies develop

• Vascular

DVT

Liver Doppler

Other examinations might be performed in a supervised capacity. Areas of practice could develop over time, with experience, further learning, competency sign-off' and with clear schemes of work in place

Radiology Department ULTRASOUND

Sonographer Preceptorship Package for the Newly Qualified Practitioner



Remarkable people. Extraordinary place. www.hull.nhs.uk | facebook.com/hullhospitals | twitter.com/hullhospitals



Hull University Teaching Hospitals

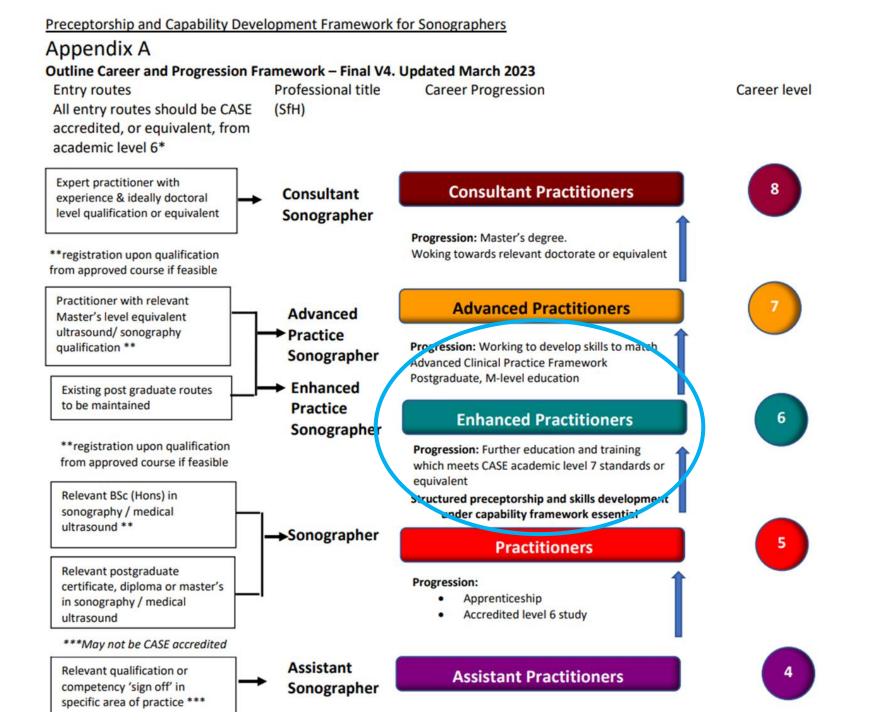


#### Annex 21 of NHS Terms and Conditions

For trainees where periods of training last for between one and four years, pay will be adjusted as follows:

- up to 12 months prior to completion of training: 75 % of the pay band maximum of the fully qualified rate;
- more than one but less than two years prior to completion of training: 70 % of the pay band maximum of the qualified rate;
- more than two but less than three years prior to completion of training: 65 % of the pay band maximum for the qualified rate;

Annex 21 - Arrangements for pay and banding of trainees



#### Career Development

This document outlines the training and assessment criteria required for practitioners in radiology when undertaking new skills outside of their core learning and development programme.

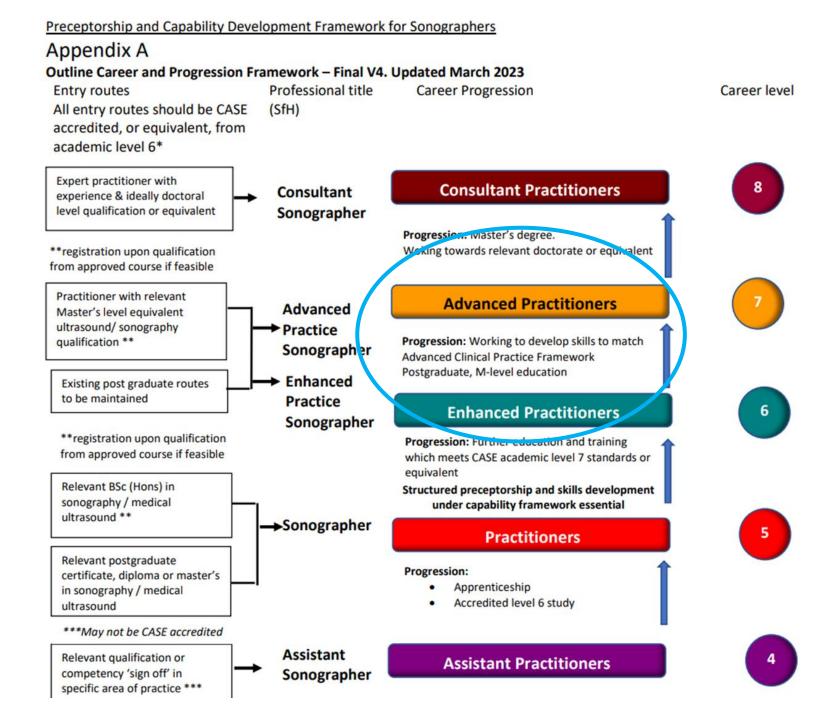
Upon completion of training, competency assessment is required and will take the form of a Clinical Competency Assessment tool -Radiology Direct Observation of Procedural Skills (Rad-DOPS). Hull University Teaching Hospitals NHS Trust

Radiology Department ULTRASOUND

Training and Assessment Programme for Additional Clinical &/or Interventional Skills

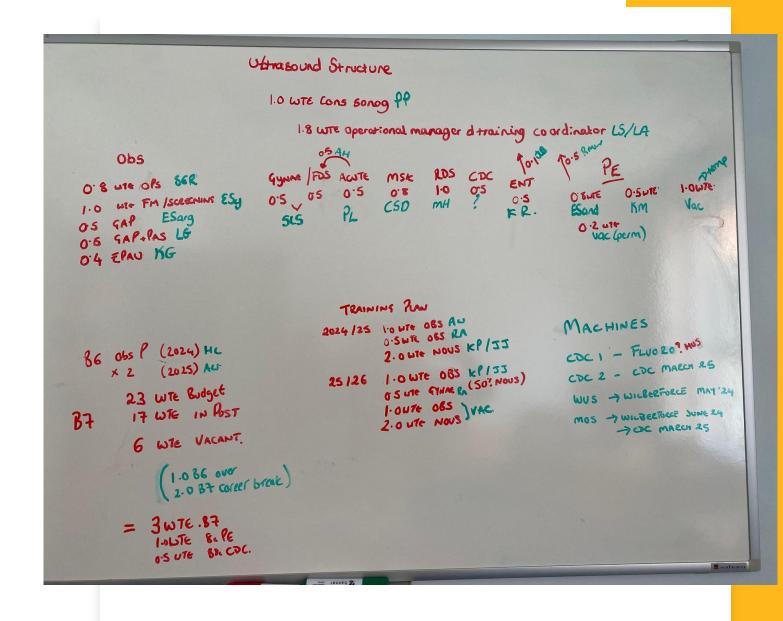
Remarkable people. Extraordinary place. www.hull.nhs.uk | facebook.com/hullhospitals | twitter.com/hullhospital

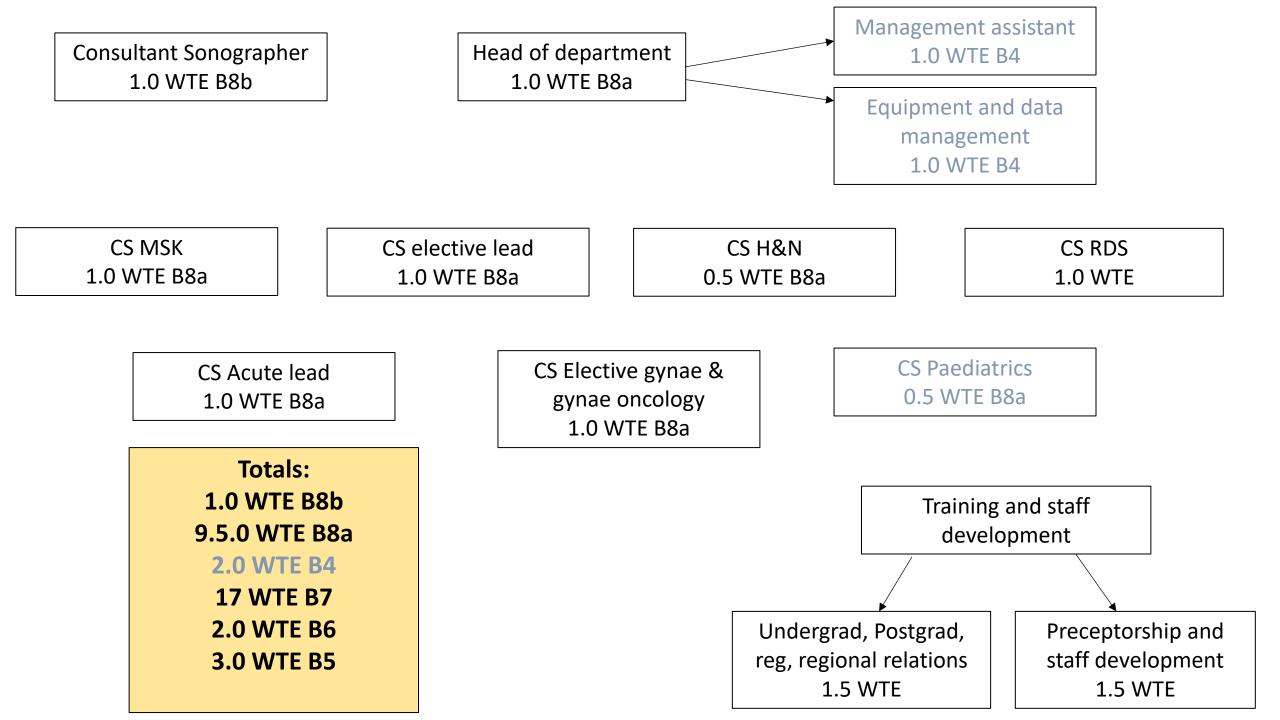




## Structure

Identify what structure needs to look like for your service, not just what individuals want





### Funding

Business plan included review of cost per session for sonographers, radiologists, and other clinicians in team.

### Review examinations / tariffs / contracts



### Engagement



Engage with HR, finance, clinical director, care group managers



SWOT analysis of structure undertaken including pro's of role extension for patient pathways





# Implemented pathways

- Rapid diagnostic service
- Prostate cancer pathway

### Pathway 1 : Non-Site Specific Symptom Pathway

Non-specific symptoms pathways are for patients who do not fit into a single 'urgent cancer' referral pathway, but who are at risk of cancer. 'Non-specific' symptoms include unexplained weight loss, fatigue, abdominal pain or nausea; and/or a GP 'gut feeling' about cancer.

Purpose is to achieve earlier and faster cancer diagnosis

# RDS - NSS / Vague symptoms



### Outcomes

Outcome	Action for referrer
1	Suspected/confirmed cancer
2	Significant non-cancerous finding
3	Discrepant findings / incomplete investigations
4	NAD – discharge with safety netting

### **RDS** Outcomes

Ultrasound and CXR performed by sonographers

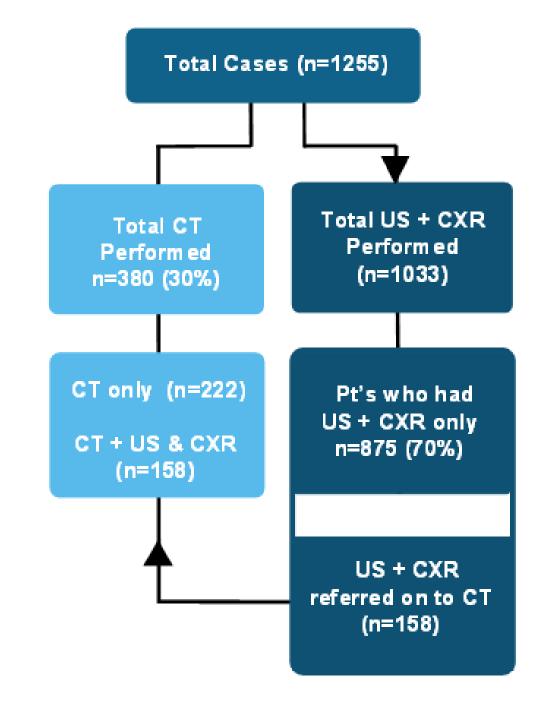
CXR reported by radiographer (48 hrs)

Ultrasound reported by sonographer

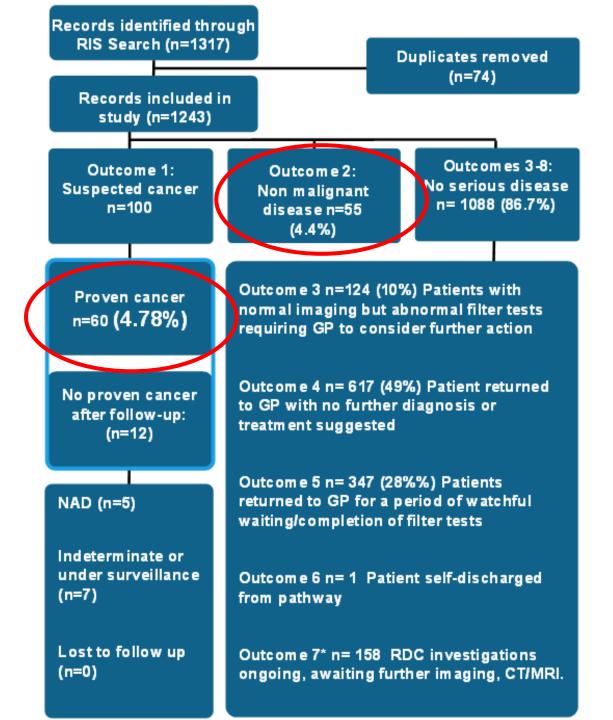
Both reviewed and outcome added by sonographer

CT TAP Reported and outcome by radiologist

### HUTH RDS Service



### RDS Outcomes





Improved Pathway

HUTH RDS performance Sept 23 – Sept 24:

Diagnosis or cancer ruled out within 28 days of referral

**96.8%** (75%) either reassured or given a diagnosis within 28 days



# Pathway 2: Prostate Cancer

- 1:8 men
- 1:4 black men

52,000 new case per annum

78% men survive prostate cancer for 10 years or more

#### 28 day pathway

Day 0	Day 0 to 3	Day 3 to 14			Day 21	Day 28
Urgent GP referral Including locally mandated information	Clinical triage Based on local protocol	mpMRI before biopsy	Prostate biopsy (by day 9)	Further investigations if required for staging	SMDT <sup>5</sup>	Communication to patient on outcome (cancer confirmed or all- clear provided)
Patient Information Provided in primary care	Unsuitable for cancer pathway Men with UTI / positive MSU to	Outpatient clinic Review mpMRI and plan investigations	Outpatient clinic Review biopsy and plan further management			
	be investigated off pathway	-	-			
		No suspicious lesions reported Some cases may be removed from pathway	Negative biopsy Imaging review meeting (radiology and urology)			

Maximum target times provided

This is a straight to test pathway using mpMRI. The 21 day pathway should be used when an immediate MRI is not required or is contraindicated.



## Sonographer role in PCa pathway

### MRI Results and counselling

### Consent and perform biopsy

### Monitor result return and review

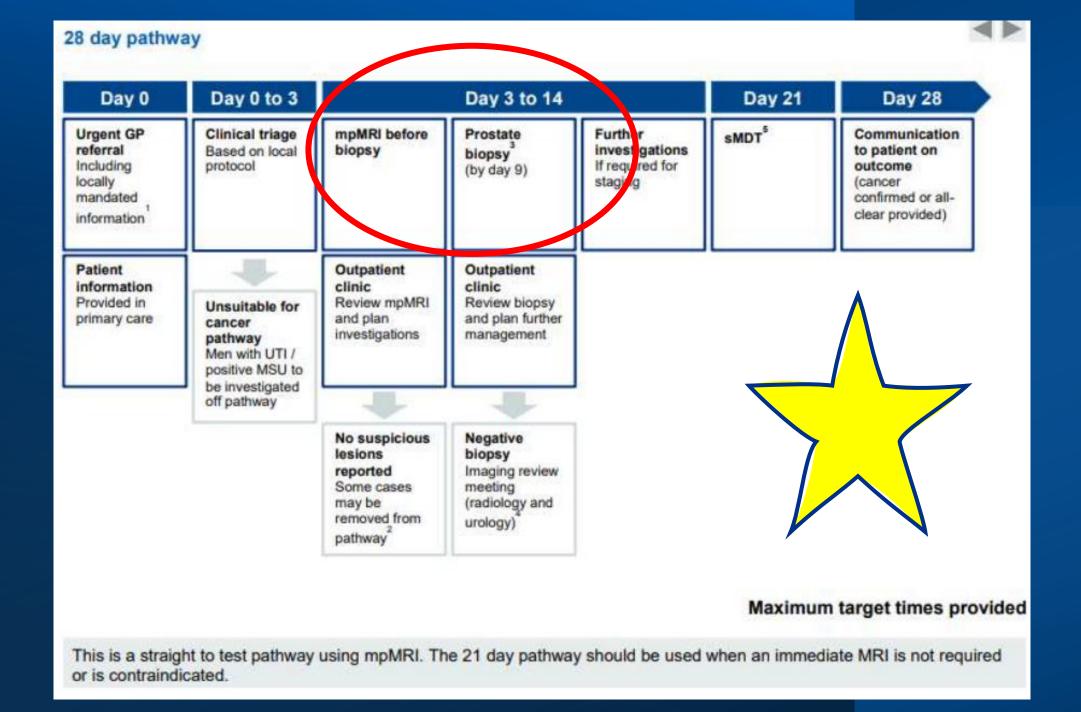
Add outcome; inform pt / inform urology

	Outcome	Description	Histology	Action
	Code			
	RPP1	Prostate Cancer	Gleason 3+3	MDT discussion or clinical
	Outcome1		and above	review
	RPP 2	Clinically significant	High Grade PIN,	Not for MDT but follow up in
	Outcome 2	Benign disease	ASAP	urology.
Prostate Outcomes				Sonographer contacts patient with results. Contact recorded and 2ww clock stopped
		D'an arita hatara MDI		
	RPP 3		High Grade PIN,	MDT Discussion required
	Outcome 3	and biopsy. ie PIRADS 4	ASAP or benign	
		and 5 on MRI	disease	
	RPP 4	Clinically insignificant		Not for MDT. Sonographer
	Outcome 4	Benign disease.		contacts patient with
		(Includes low grade PIN, acute inflammation and prostatitis)		results. Contact recorded and 2ww clock stopped.



# 28-Day timed pathway

- Average wait from referral to clinic = 7 days
- Average wait to MRI = 3 days.
- Average wait to MRI to biopsy = 6 days
- Average wait from biopsy to outcome = 14 days
- Average wait for whole pathway = 30 days

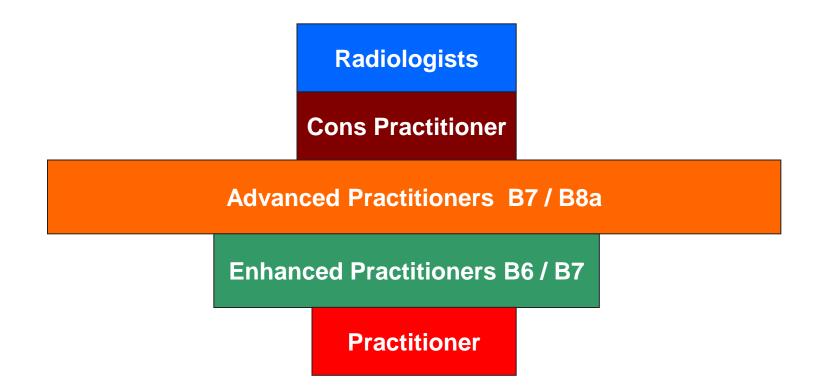




# Why?

- Performance
- Job satisfaction
- Fulfilment of the 4-pillars of advanced / consultant practice
- •Why not?

### **Transforming the Career Structure**



# Summary



Transforming the workforce has a positive impact on patient pathways



Improves recruitment and retention



Increased job satisfaction & team moral



Everyone is a winner!

### **There is no I in TEAM!**

Thanks for your attention Any questions?

