

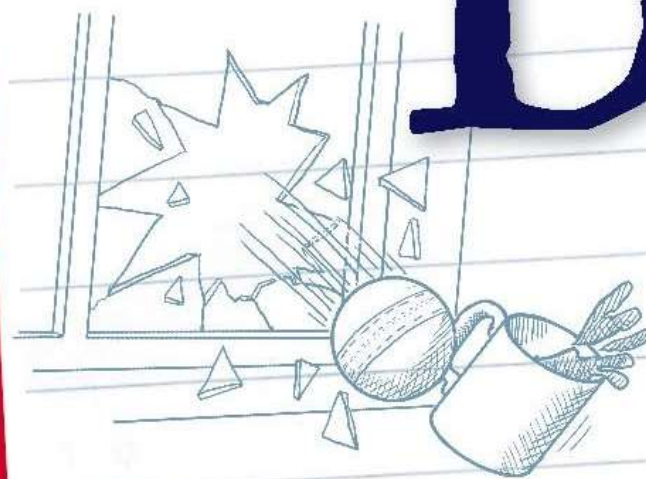
# Developing Multi Disciplinary Head & Neck Service

**‘A careers worth of experience’**

**Ram Vaidhyanath**

**Consultant Radiologist  
President Elect – BSHNI**

# Diary of a Grumpy Old Git



# Disclosures

**‘I was trained by Sonographers’**

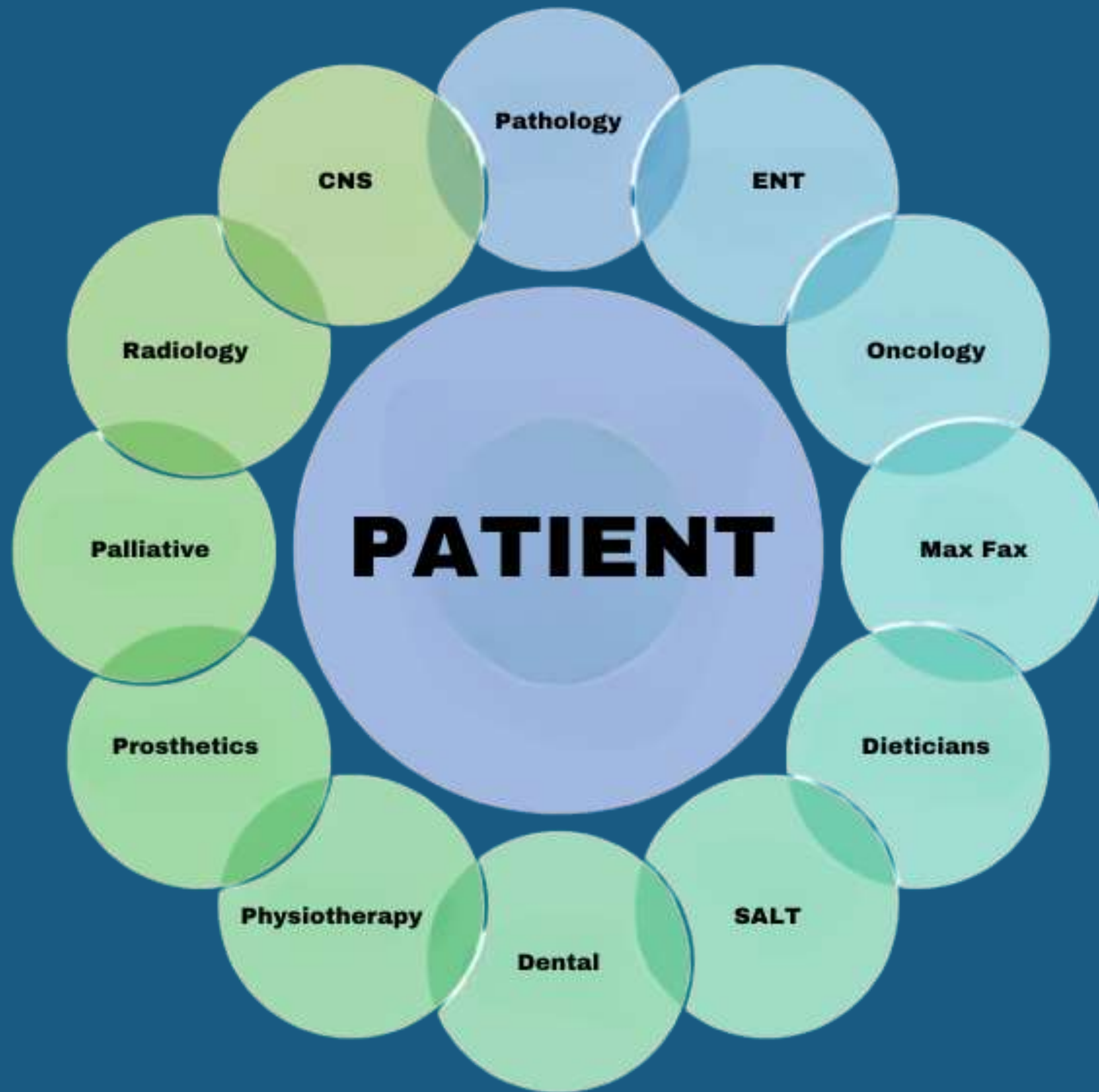


# Multi Disciplinary Team



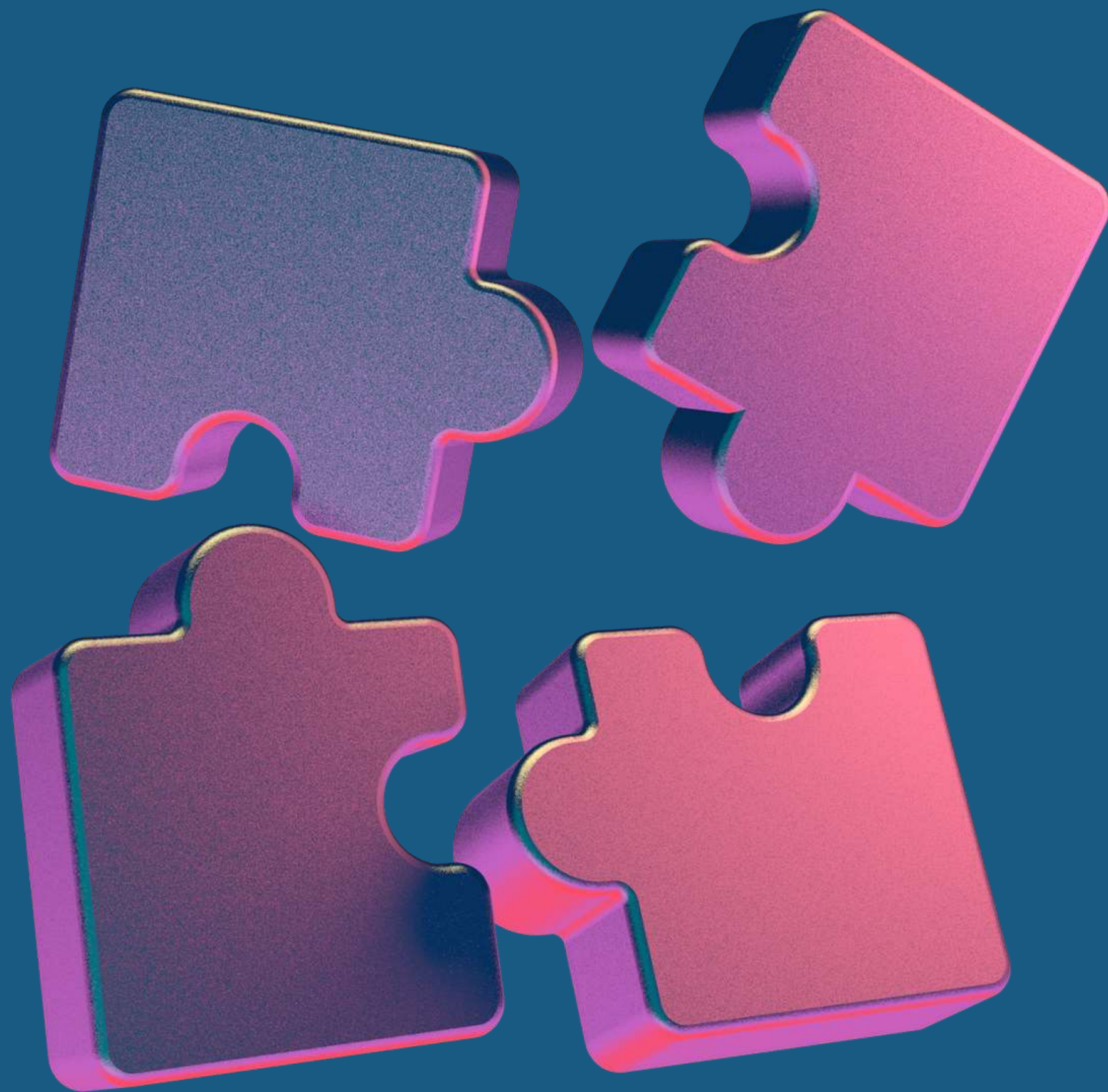
**a group of health and  
care professionals from  
different backgrounds  
who work together to  
plan and coordinate  
patient care**

**‘Working Differently Together’  
*Health Education England, 2021***



# Head & Neck Cancer MDT





# **Skill Mix & Learning**

**‘the mix and breadth of staff,  
personalities, individual  
attributes, professions and  
experience’**



## > BMUS' Response to the NHS 10- Year Health Plan



### Challenge 2 - Increased use of skill mix with appropriate supervision. (2-5 years)

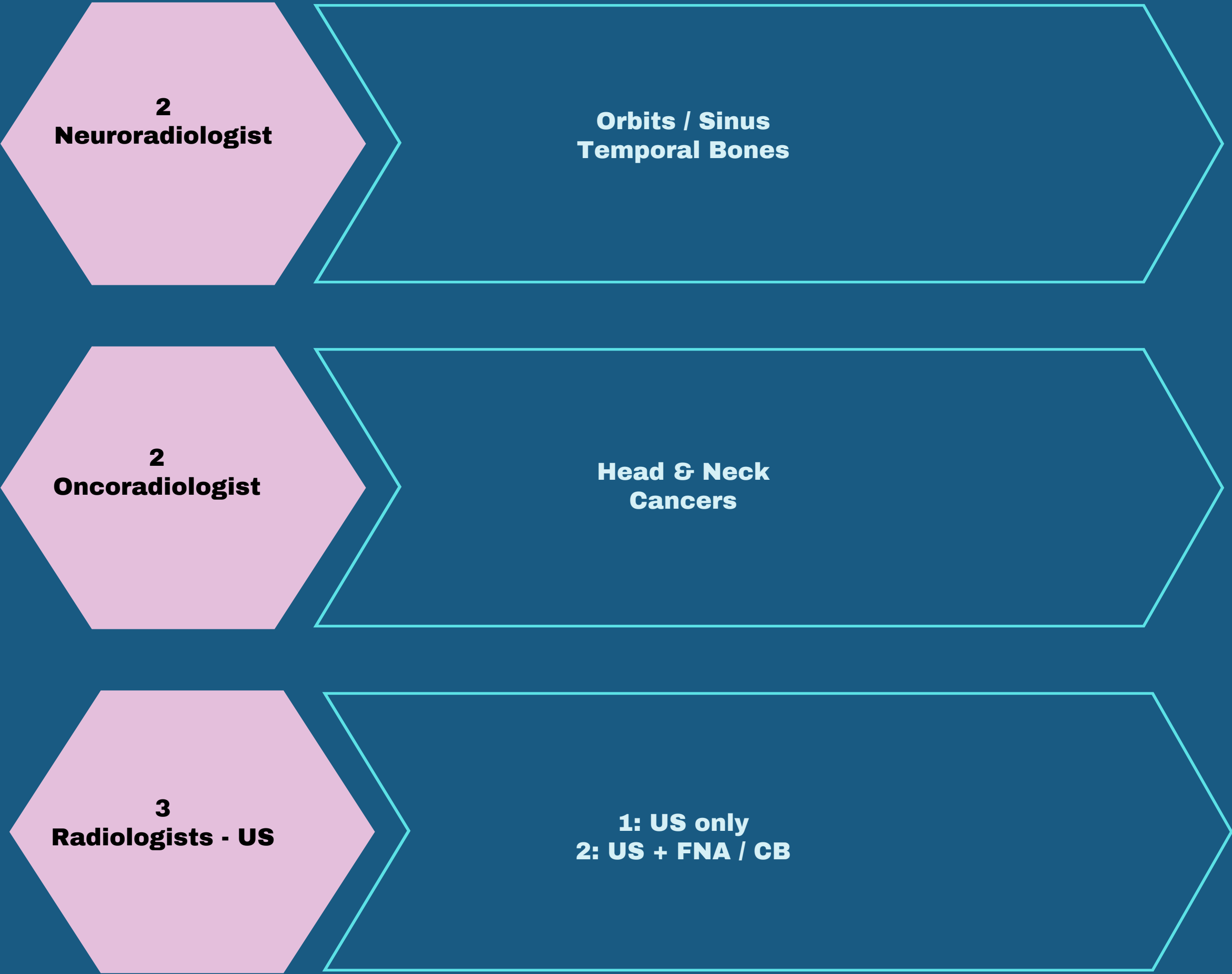
#### Challenge

- Patients returning to referrer to be discharged (wasted appointment).
- Some procedures undertaken by medically trained staff could be undertaken by sonographers.
- Maximisation of the diagnostic value of ultrasound examinations by ensuring high quality working relationships between radiologists and non-medically trained ultrasound practitioners.
- Increased demand for reporting of MRI/CT examinations means less time for radiologists to be involved in clinical ultrasound lists, reducing shared knowledge and skills.
- Advent of community diagnostic hubs likely to create more siloed working with less opportunity to attend MDT or easy access to MDT working.

# How it Started



1997





# How is it going



**6**

**Head & Neck  
Radiologists**

**1**

**Consultant  
Radiographer  
(Head & Neck)**

**4**

**Head & Neck  
Sonographers**

**2024**



**Evaluation**

**Diagnosis**

**Treatment**





**Radiotherapy**

**A N P**

**Imaging**

# Nasendoscopy Training

ENT Outpatients  
Department

**NHS**  
University Hospitals  
of Leicester  
NHS Trust

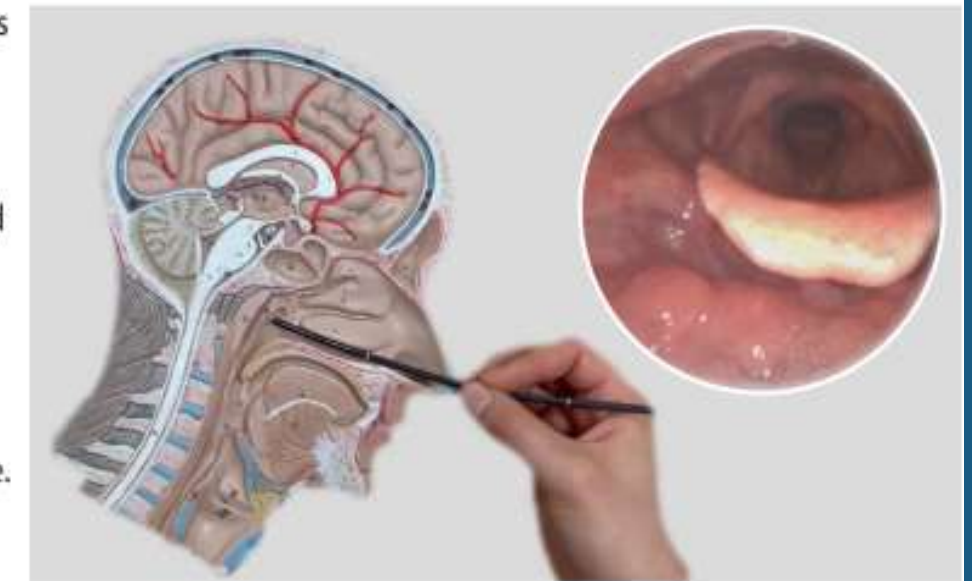
## Introduction

This package is designed to enable the practitioners to gain the specialist skills and knowledge to allow them to safely perform flexible and rigid nasendoscopy.

The package can be used as a resource and a record of learning.

Verification of learning will be provided by the mentor.

After verification has been recorded, a copy of this document should form part of your personal profile.



## Aims and Objectives

**The Advanced Nurse practitioner will be able to:**


1. Demonstrate knowledge and understanding of the anatomy and physiology of the upper airway and digestive tract which includes the nasal cavity, pharynx, larynx and vocal cords.
2. Identify abnormalities of any structure visualised with the nasendoscope.
3. Demonstrate the ability to prepare the equipment for performing nasendoscopy.
4. Demonstrate proficiency in carrying out the procedure.
5. Recognise red flags and communicate relevant information effectively with the patient and medical staff.
6. Decontamination of equipment on completion of procedure.

## FLEXIBLE / RIGID NASENDOSCOPY CLINICAL COMPETENCIES




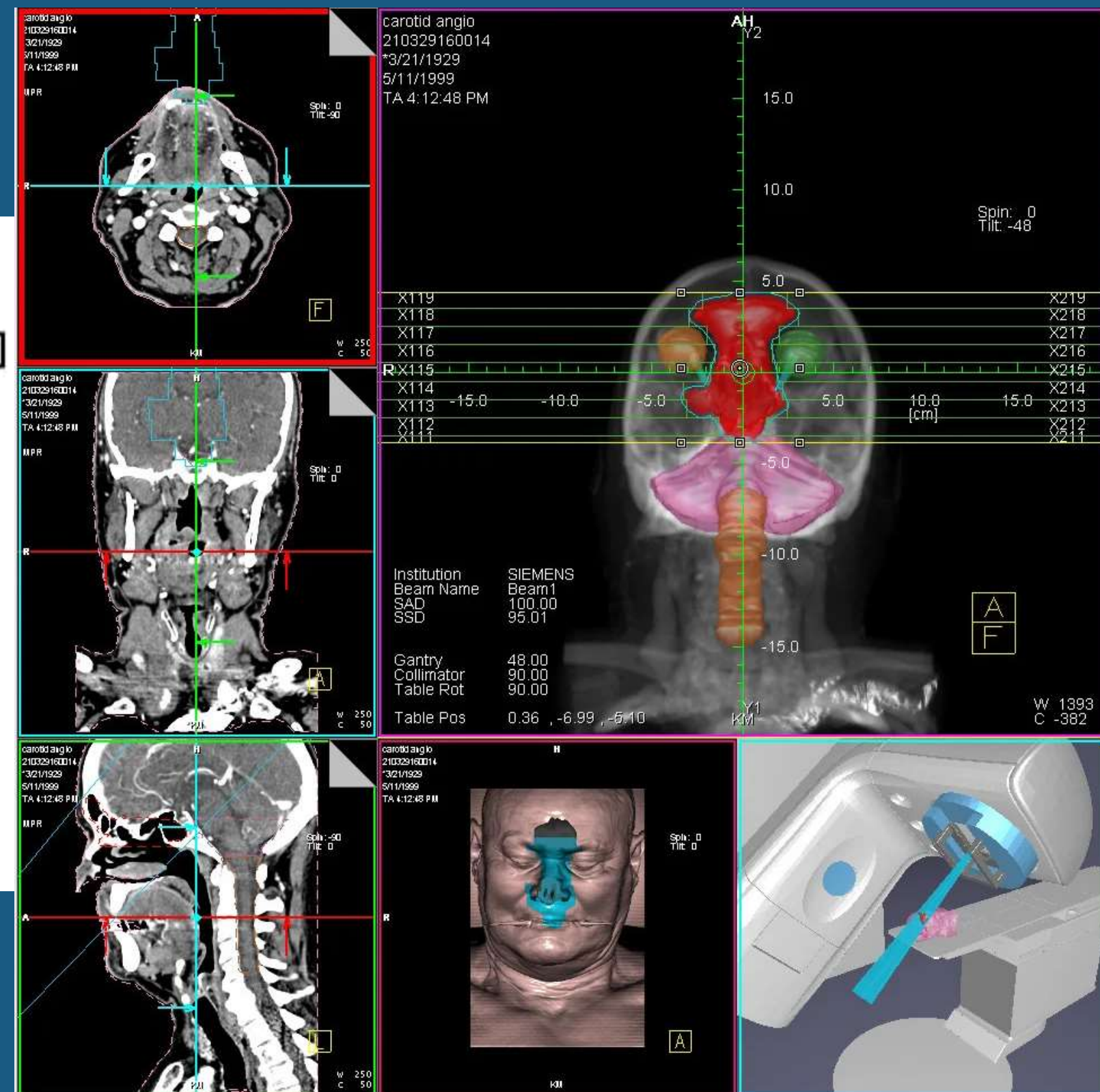


# Radio Therapy Planning

University Hospitals of Leicester NHS Trust Radiotherapy, Radiotherapy Physics and Hope Clinical Trials Facility		
Radiotherapy Delivery Form	Extended Scope of Practice: Statement of Competence [Master Copy]	

<b>Extended Scope of Practice &amp; Statement of Competence</b>		University Hospitals of Leicester  <i>Caring at its best</i>
<b>Attach Photograph</b>	<b>Staff Name:</b>	<b>Nicola Freeman</b>
	<b>Role:</b>	<b>Consultant Radiographer - Head &amp; Neck</b>
	<b>HCPC Registration No:</b>	<b>RA41869</b>
	<b>Signature:</b>	<b>Operator</b> for all duties and entitlements listed below
	<b>IR(ME)R Entitlement(s)</b>	





# The Vital Role of Head and Neck Radiology

**100 million**

Number of head and neck imaging procedures performed annually worldwide.

**15 million**

Patients who suffer stroke and require head and neck imaging.

**650,000**

Number of new cases of head and neck cancer diagnosed each year globally.

**50%**

How often pediatric lymphoma involves the head and neck.

RSNA News

## The Role of Radiology in Head and Neck Imaging

Understanding of the unique anatomical structures, disease processes and imaging techniques are key for accurate diagnosis



# Why Head & Neck Imaging ?

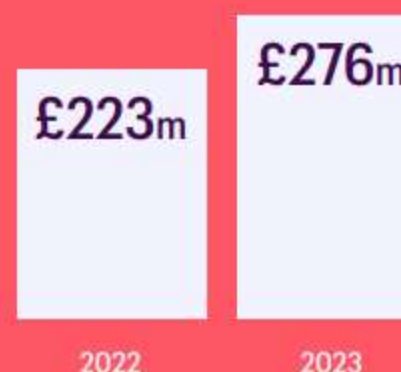


The radiology workforce grew by 6.3% in 2023.



The rate of CT and MRI scans surged by 11% in the same timeframe.

The NHS spent £276m on managing excess reporting demand – the highest ever, and £52m more than in 2022.



2,690 yearly consultant salaries could be funded with the same money spent on managing excess demand, higher than the current shortfall.

The average (median) age that radiology consultants left the workforce.

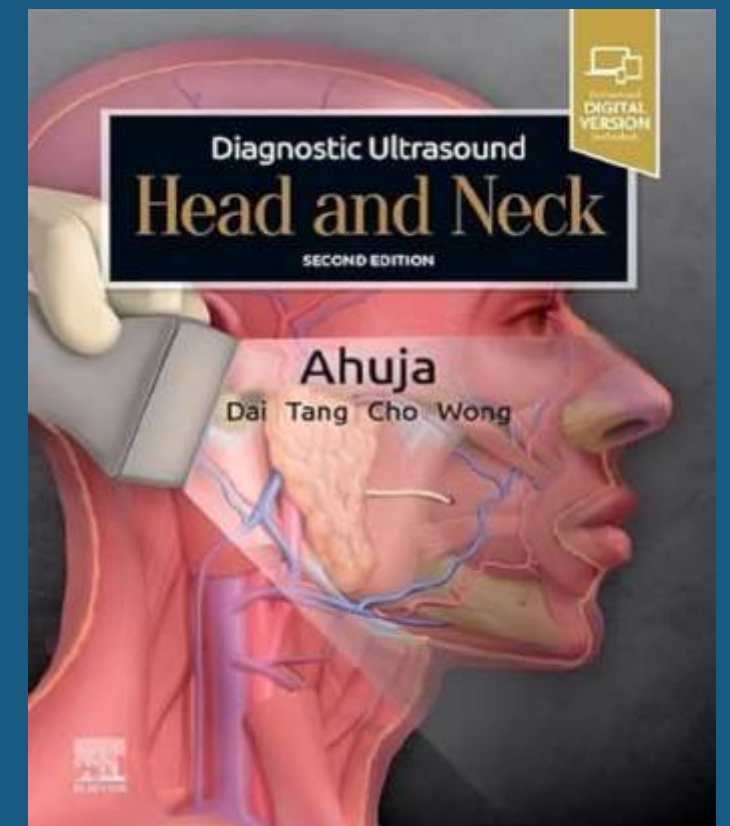
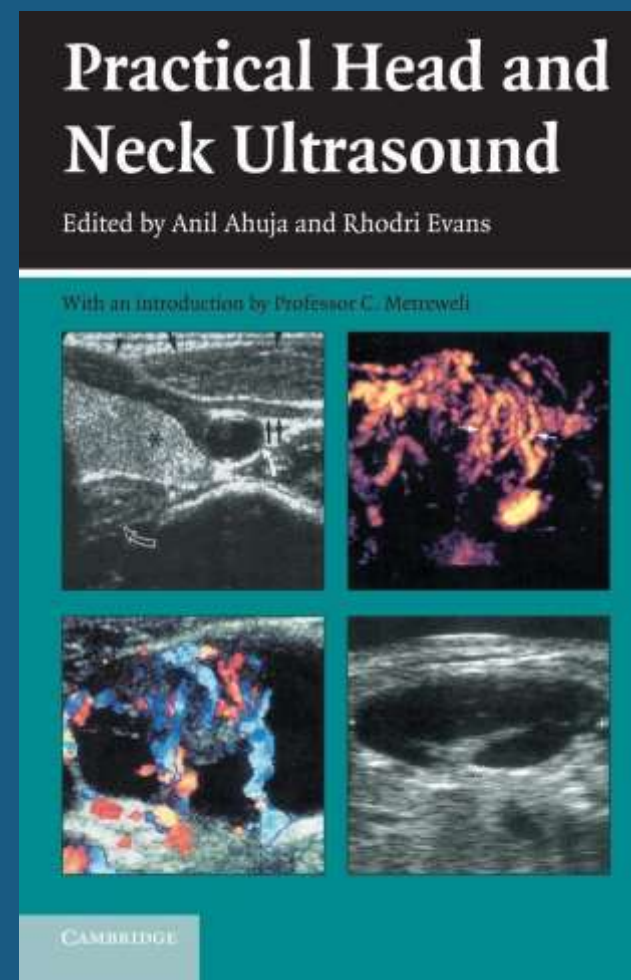
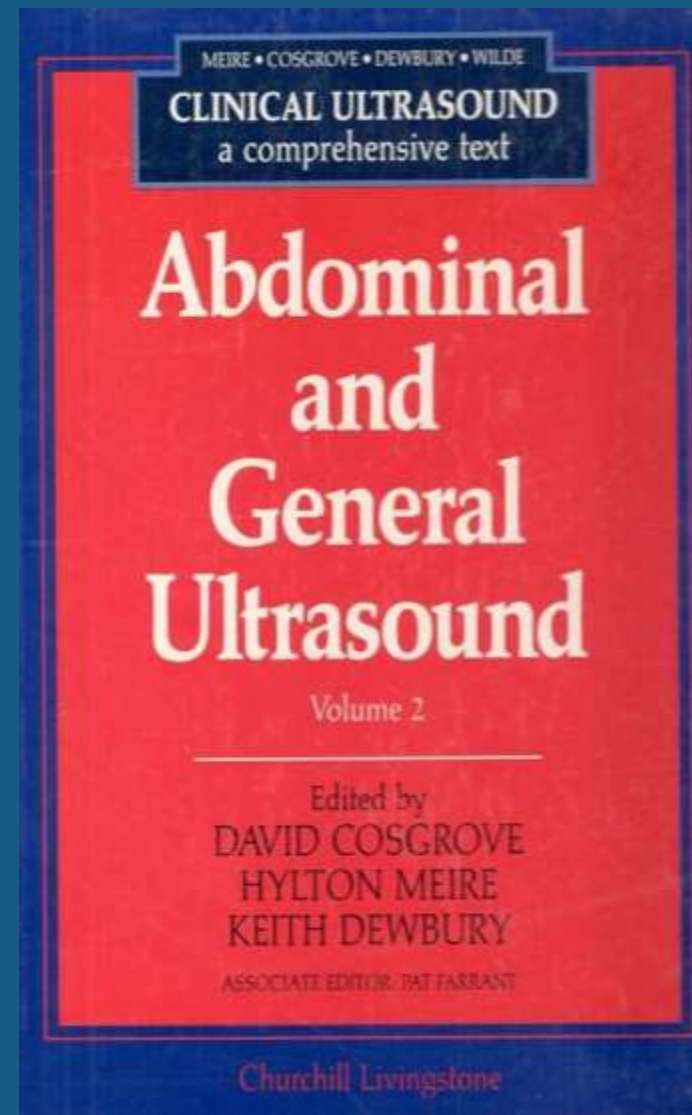


Radiology workforce shortfalls:





# How ?



# How ?

**Guidance for the Training in Ultrasound of Medical Non-Radiologists. 1997, Board of the Faculty of Clinical Radiology, Royal College of Radiologists, London**

## Ultrasound training recommendations for medical and surgical specialties

### Second edition

1.6 This document makes recommendations for ultrasound training in the following areas:

- urological ultrasound
- gynaecological ultrasound
- gastrointestinal ultrasound
- vascular ultrasound
- breast ultrasound
- thoracic ultrasound
- cranial ultrasound in infants
- focused emergency ultrasound
- intensive care ultrasound
- musculoskeletal ultrasound

**2012**

**2017**

[www.rcr.ac.uk](http://www.rcr.ac.uk)



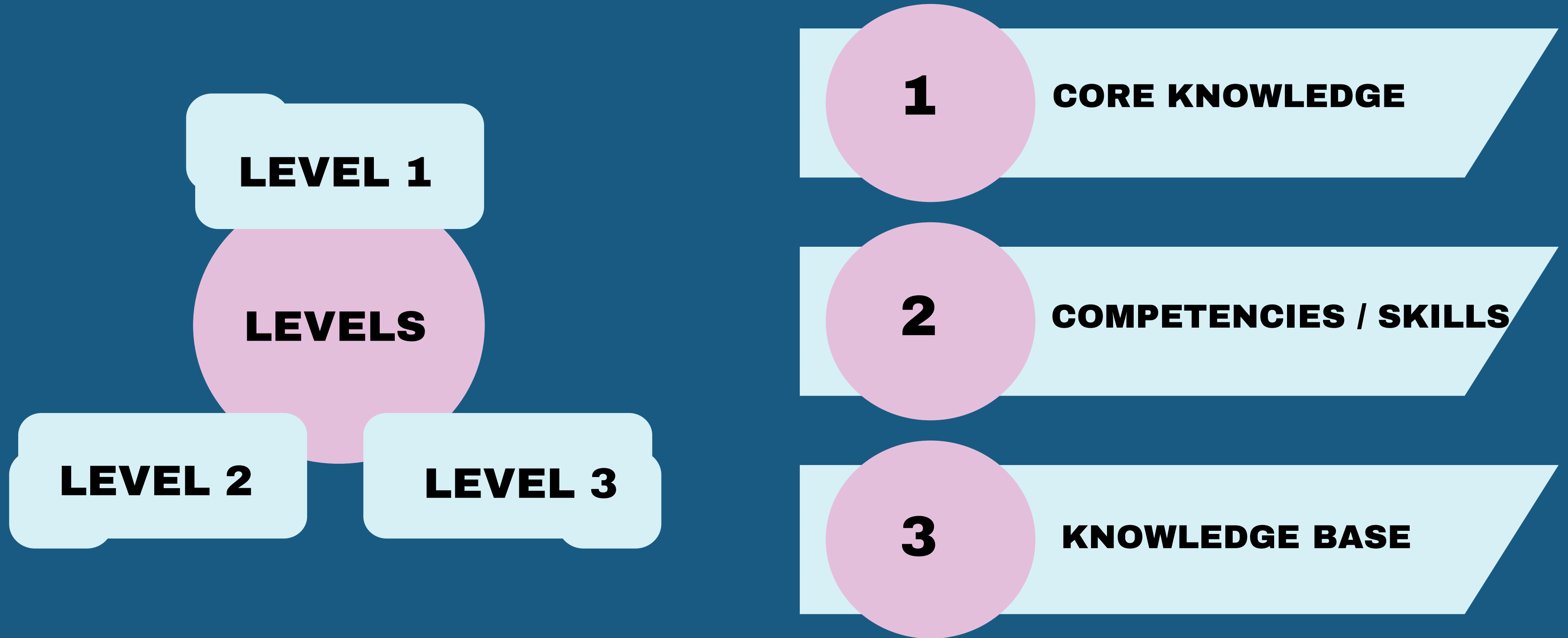
## Ultrasound training recommendations for medical and surgical specialties

### Third edition

- Urological ultrasound
- Gynaecological ultrasound
- Gastrointestinal ultrasound
- Vascular ultrasound
- Breast ultrasound
- Thoracic ultrasound
- Cranial ultrasound in infants
- Focused emergency ultrasound
- Intensive care ultrasound
- Head and neck ultrasound
- Musculoskeletal ultrasound.



# How ?




# How ?

IMAGING SERVICE	Standard Procedure No.	
STANDARD OPERATING PROCEDURE (SOP)	Issue date:	
<small>NHS Trust</small>	Revision date:	
GH, LGH, LRI	Page of	Version: 1


## Ultrasound examination of the neck

Person Responsible for procedure: Consultant, Radiology Trainees, Sonographers

University Hospitals of Leicester   
NHS Trust

**Scope of Practice for Trained Sonographers  
to Perform Ultrasound Guided FNA of the  
Thyroid Gland and Masses**

**Focused Training  
of Radiographers  
in Cross Sectional  
Imaging of  
Head & Neck  
Cancers**

University Hospitals of Leicester   
NHS Trust

*Caring at its best*

Straight to test: **Amendment to two week wait pathway for suspected thyroid cancer**



Ultrasound  
OnlineFirst  
© The Author(s) 2024, Article Reuse Guidelines  
<https://doi.org/10.1177/1742271X241299220>

Sage Journals

Original Research

**Investigation of artificial intelligence–based clinical decision support system’s performance in reducing the fine needle aspiration rate of thyroid nodules: A pilot study**

Amy Barnes <sup>1</sup>, Rebecca White<sup>2</sup>, Heather Venables <sup>2</sup>, Vincent Lam<sup>3</sup>, and Ram Vaidhyanath<sup>3</sup>

University Hospitals of Leicester NHS Trust

Imaging Clinical Business Unit

For Completion by Referring Practitioners

HEAD & NECK CANCER  
POST TREATMENT

NHS  
National Institute for Health Research

The Efficacy and Cost effectiveness of Real Time Ultrasound Elastography in The Investigation Of Thyroid Nodules and the diagnosis of thyroid cancer.



STANDARD OPERATING PROCEDURE (SOP)	Issue date: 09/03/2021
Trust Reference:C7/2021	Revision date: N/A
University Hospitals of Leicester NHS Trust	Review date: 25 <sup>th</sup> February 2022
GH, LGH, LRI	Page 1 of 24    Version: 1

**Head and Neck Ultrasound Guided Superficial Core Biopsy  
Standard Operating Procedure  
UHL Radiology LocSSIP**

HEMI OR TOTAL THYROIDECTOMY  
IN LOW RISK THYROID CANCER

Ram Vaidhyanath  
Leicester Head & Neck Cancer

Raising Funds for a dedicated Ultrasound Scanner for Brown Dog Cancer because it can help early diagnosis of Head & Neck Cancer

790%  
£7,910  
raised of £1,000 target  
by 36 supporters

nicola freeman  
Therapy radiographers take on the great ridge challenge

Walking to improve head & neck cancer diagnosis for Brown Dog Cancer because accurate diagnosis leads to efficient care

225%  
£2,255  
raised of £1,000 target  
by 98 supporters

Oladejo Olaleye  
Fundraising for an Ultrasound scanner for Head & Neck Cancer diagnosis

Head and Neck Cancer Team Leicester - Charity Walk for Brown Dog Cancer because To help promptly diagnose cancers from neck lumps

402%  
£4,021  
raised of £1,000 target  
by 64 supporters

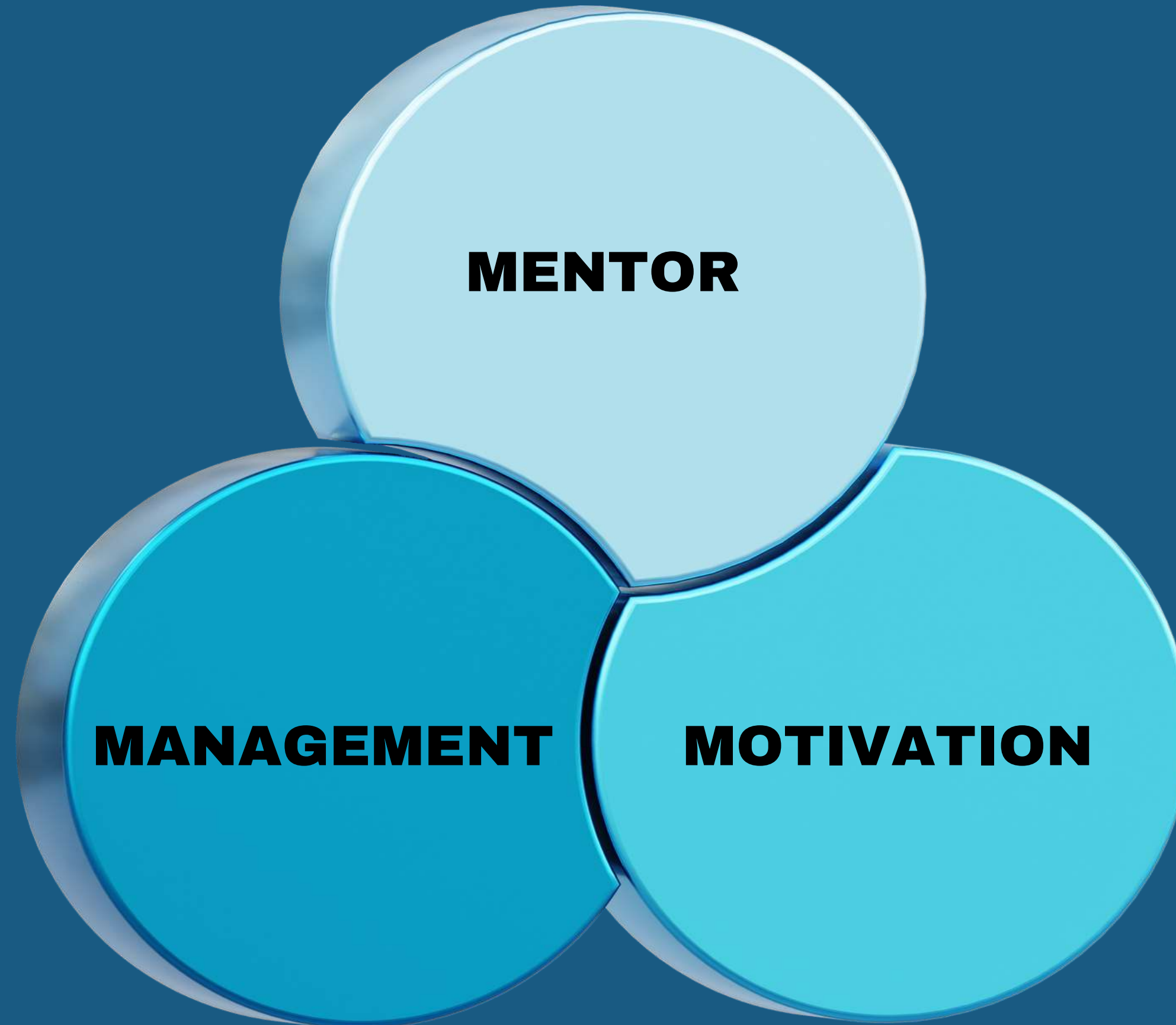
Amy Barnes  
The BIG Abseil 2023  
Fundraising with Brown Dog cancer charity

Fundraising for Leicester Hospitals Charity

104%  
£2,090  
raised of £2,000 target  
by 65 supporters



# Training & Support



# **Training & Support**

**Patient / Clinical Information**

**Reporting Style**

**MDT / Follow Up**

**Knowledge**



Clinical History	Report	Cytology
thyroid	lobectomy, small nodules	
thyroid nodule	FNA	THY1
thyroid	heterogenous thyroid	
thyroid inc in size	goitre	THY2
mnt	colloid nodule 20ml aspirate	THY1C
mnt	no change	
dvt,pe-mri lump.	u2	THY2
mnt,mets ?thyroid primary	?mets	
mnt	u2 thy 2	THY2
thyroid nodule	u2 thy 2	
hemi thyroid. nodule	colloid	
CT suggest US	MNT largest 4x2.8	
MNG	no change	
cowden syndrome	MNT	
swelling	mnt	
thy 3f	bilateral nodes ?mets	THY3
thyroid cyst	?thy2c	THY2
monitor thyroid nodule	no change	
previous nodule	no change	
CT incidental nodule	MNT	

Clinical History :  
 Clinical Justification : Hyperparathyroidism.,  
 PMH : Bronchiectasis.,Prostatism.,Dyspepsia  
 Allergies : Allergy. Seafood  
 Cognitive Impairment : No  
 Diabetic Status : Not diabetic







<https://bshni.org.uk/membership/>

## **BIR / BSHNI Head and Neck Imaging Refresher Course**

**7 February 2025 | Venue: Mercure, Cardiff**

**Pharynx, Paranasal Sinuses, Temporal Bone**

Lectures, Interactive Workshops

EPoster competition with cash prizes



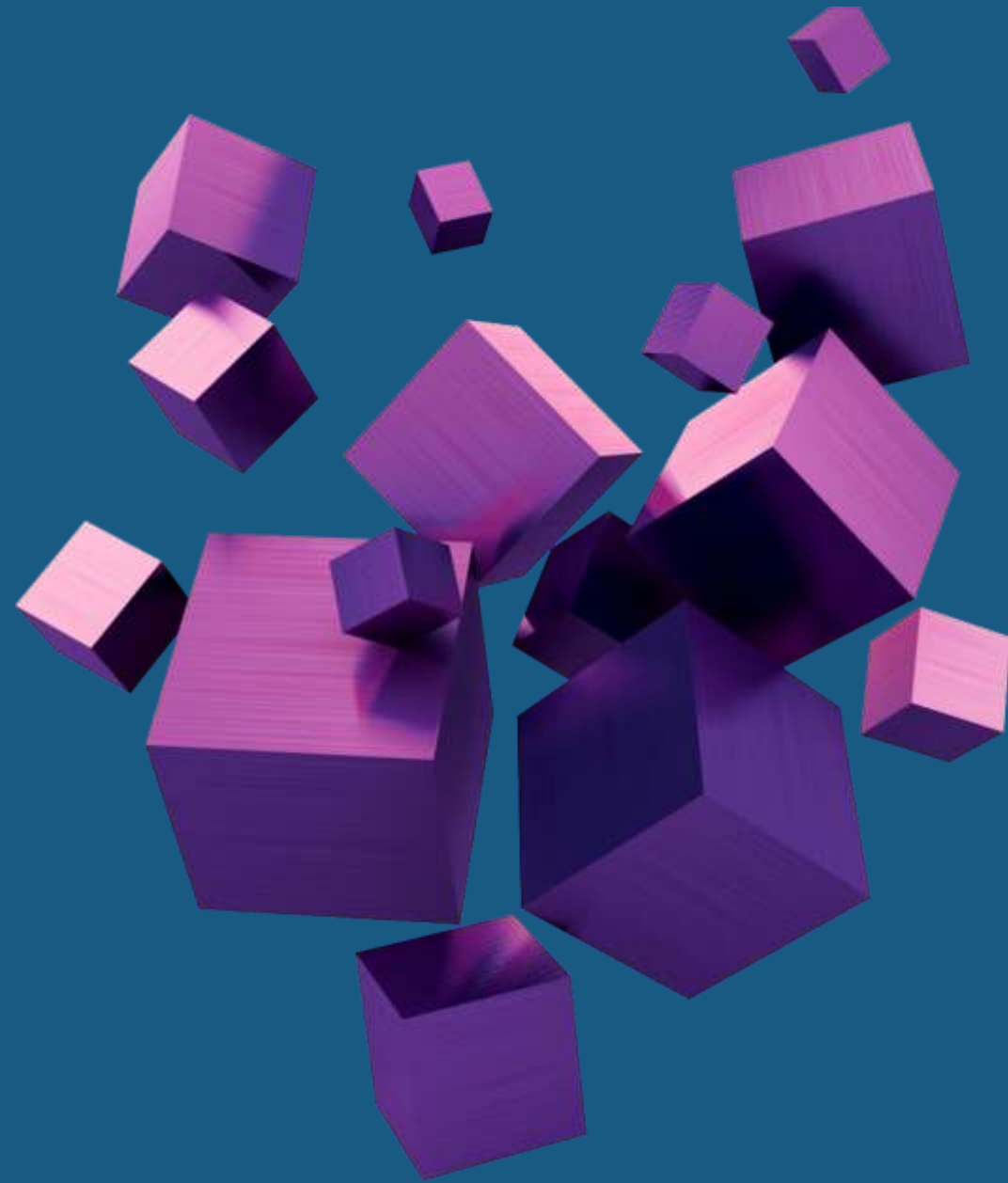
## **Head & Neck Imaging 2025**

**Annual Meeting of BSHNI & RSM**

**26 & 27 June 2025**



**#BSHNI25**



- **HN Imaging is very rewarding**
- **Small / Friendly Team**
- **Challenges**
- **Enjoy the Journey!**





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X

@ramvaidhyanath

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