

Developing Multi Disciplinary Head & Neck Service

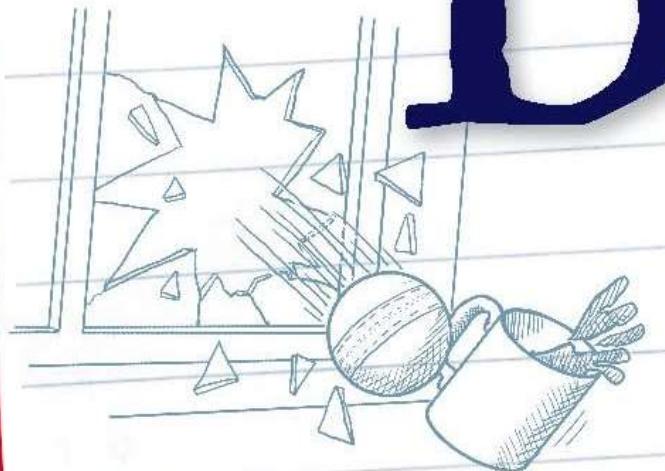
‘A careers worth of experience’

Ram Vaidhyanath

**Consultant Radiologist
President Elect - BSHNI**



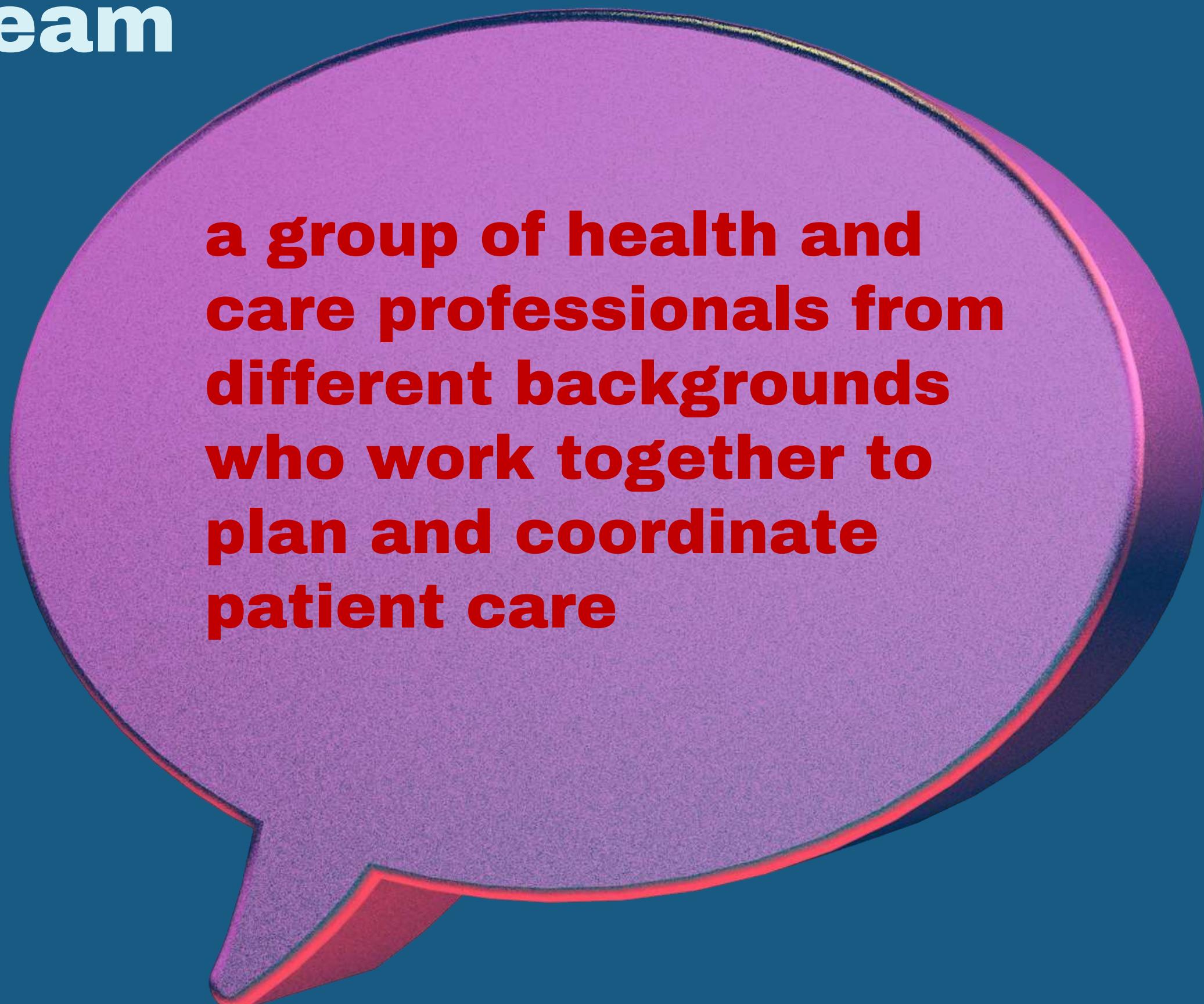
Diary of a Grumpy Old Git



Disclosures

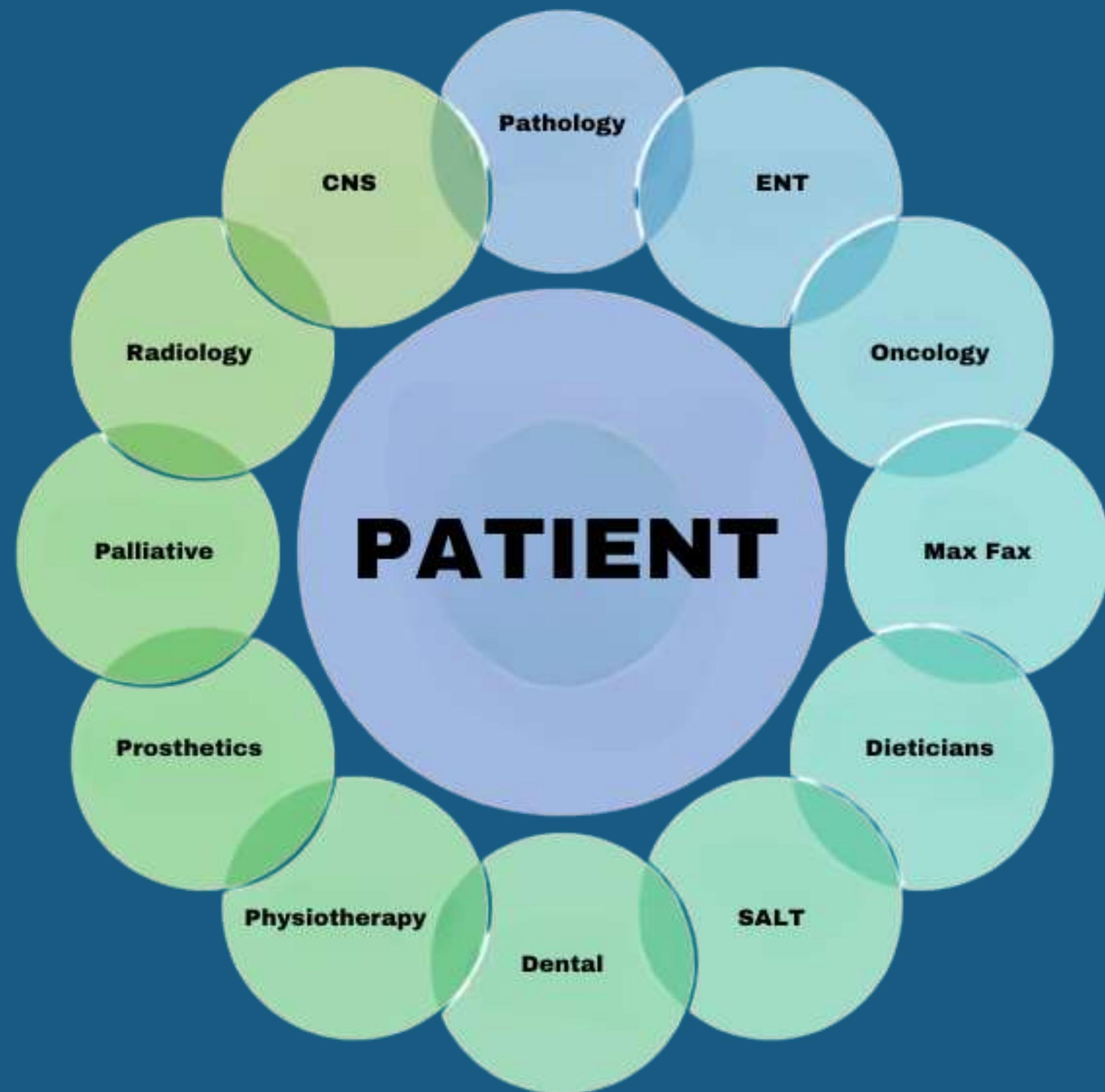
‘I was trained by Sonographers’

Multi Disciplinary Team

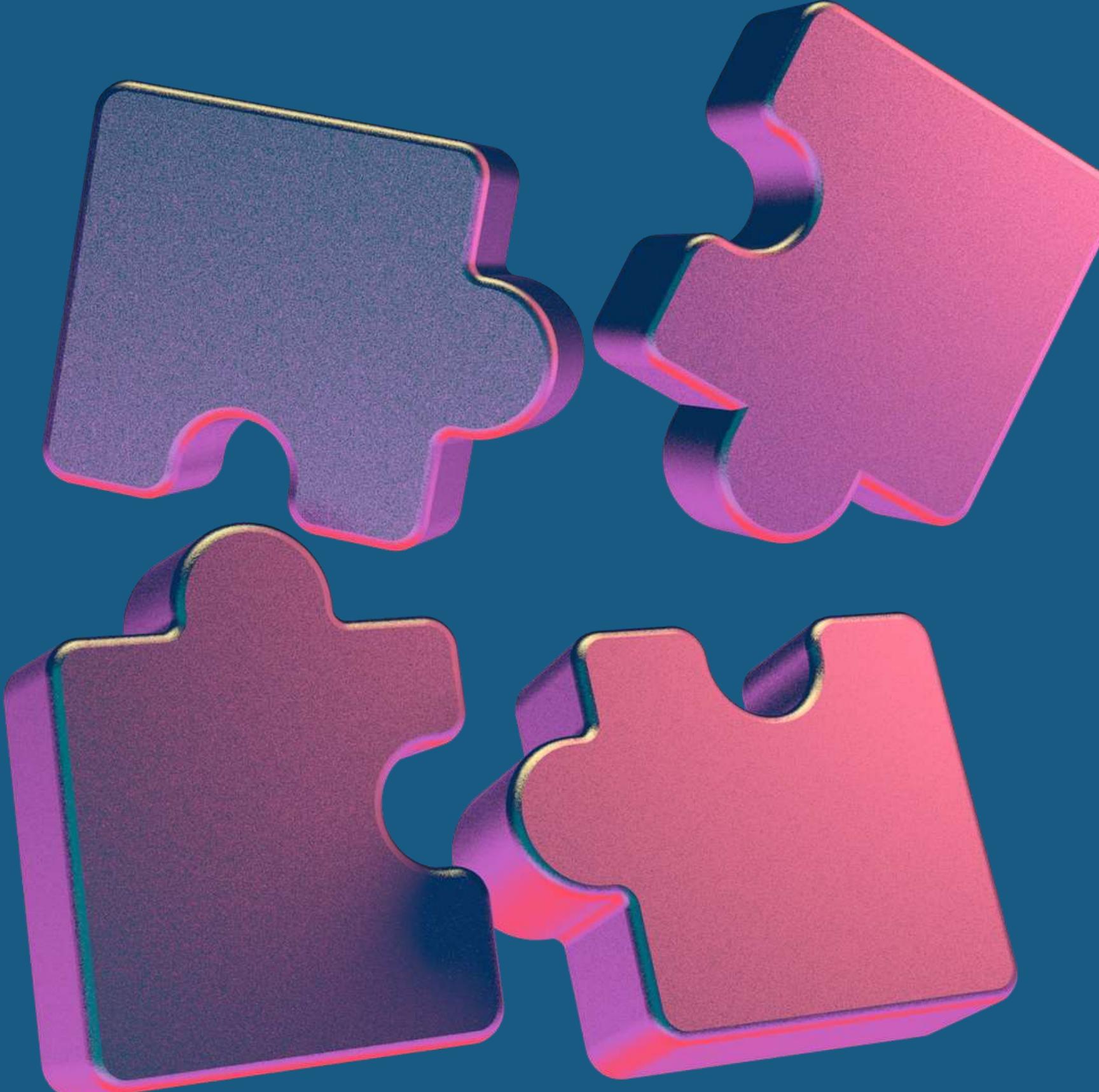


a group of health and care professionals from different backgrounds who work together to plan and coordinate patient care

‘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’



News
BMUS 

› BMUS' Response to the NHS 10- Year Health Plan



WWW.BMUS.ORG

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

2
Neuroradiologist

Orbits / Sinus
Temporal Bones

2
Oncoradiologist

Head & Neck
Cancers

3
Radiologists - US

1: US only
2: US + FNA / CB

How is it going



6

**Head & Neck
Radiologists**

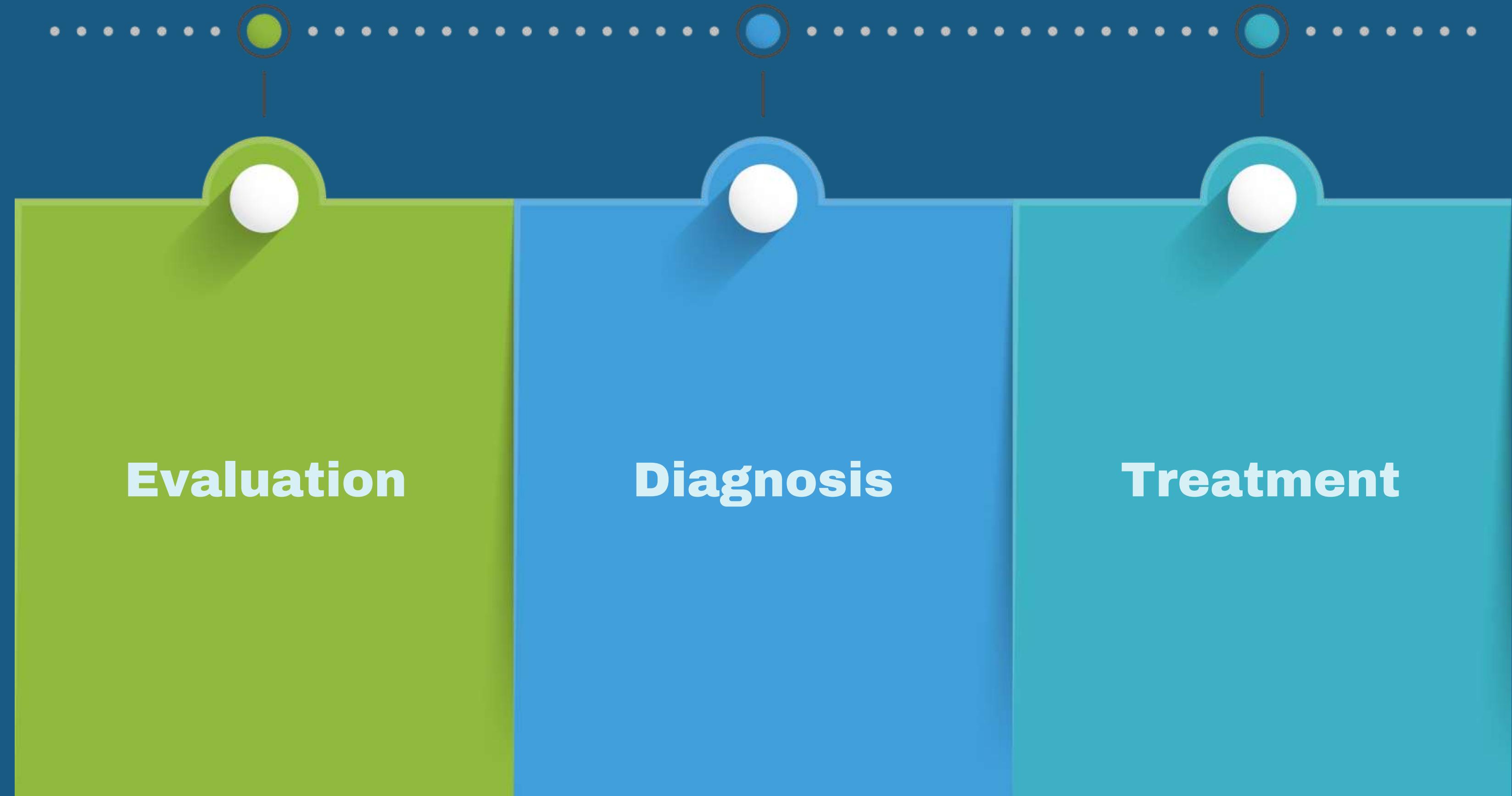
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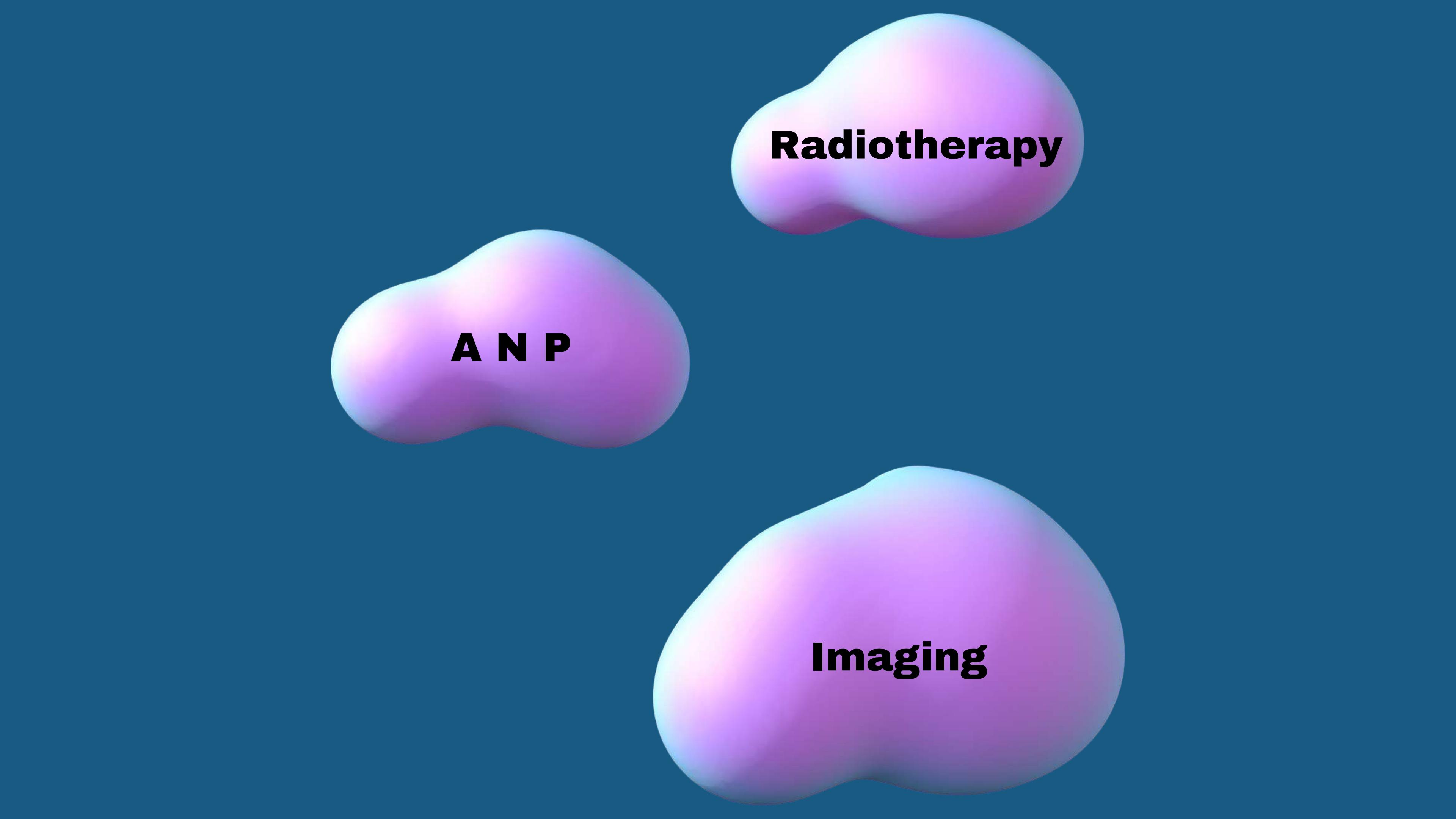
**Consultant
Radiographer
(Head & Neck)**

4

**Head & Neck
Sonographers**

2024





Radiotherapy

A N P

Imaging

Nasendoscopy Training

ENT Outpatients
Department

FLEXIBLE / RIGID NASENDOSCOPY CLINICAL COMPETENCIES



NHS
University Hospitals
of Leicester
NHS Trust

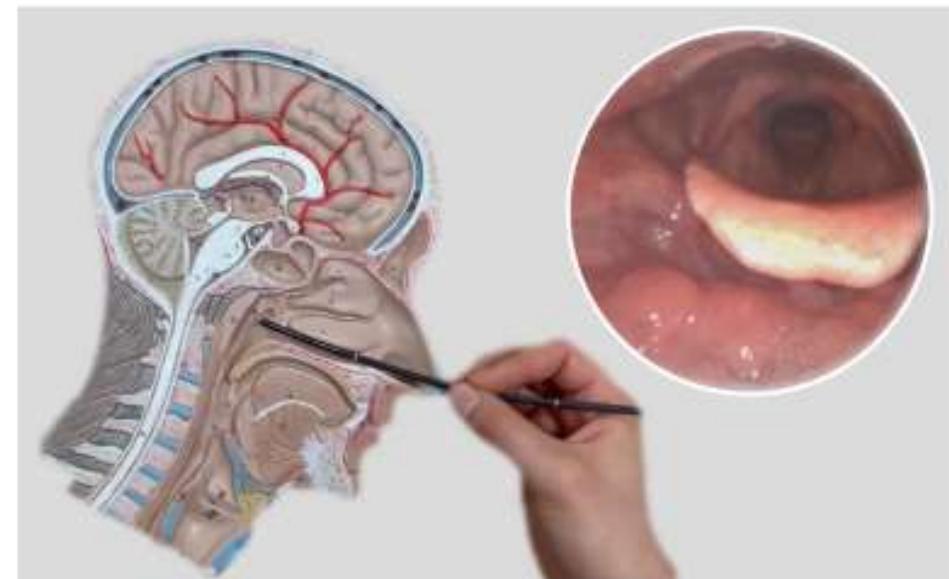
Introduction

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.

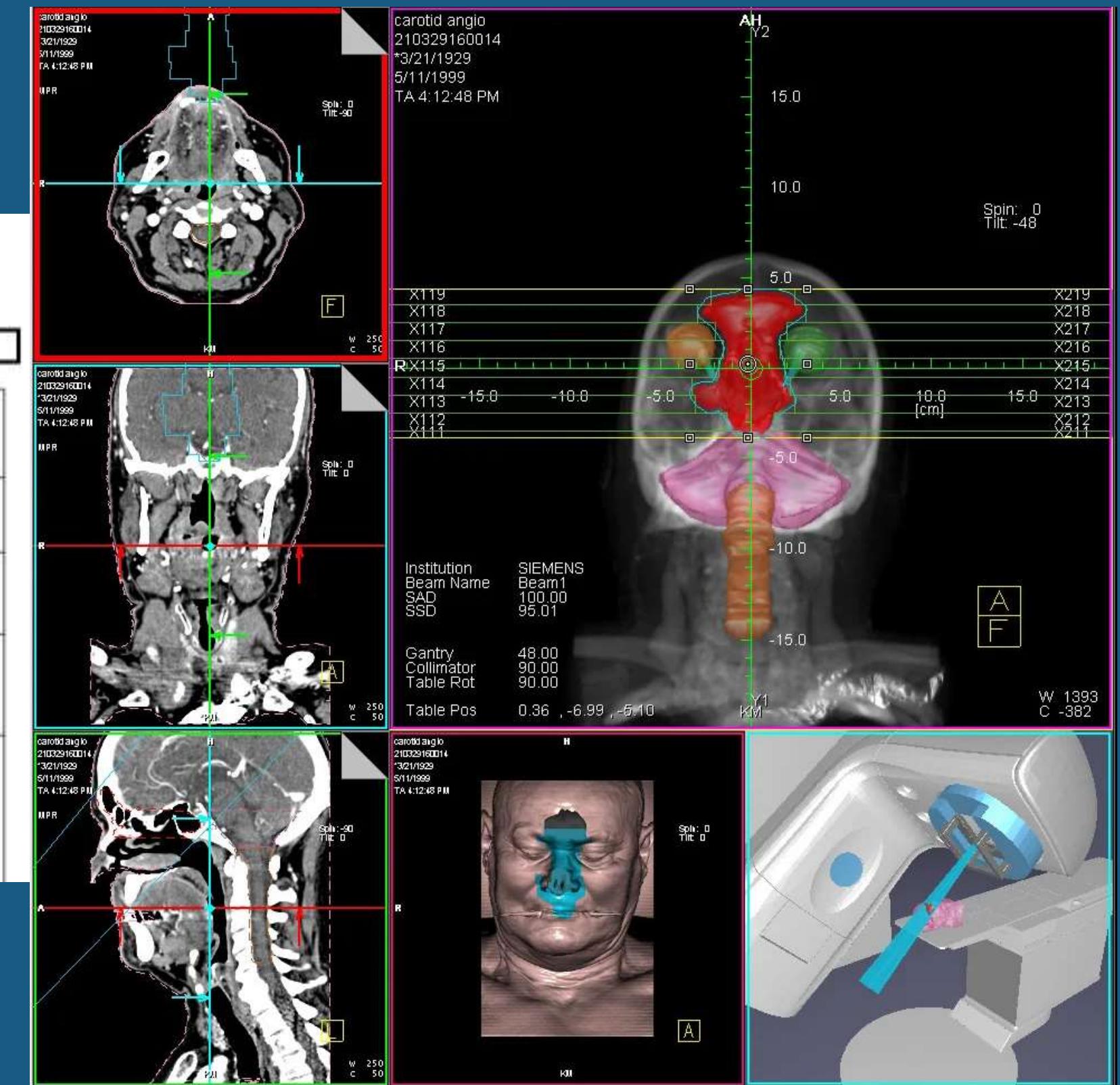
Radio Therapy Planning

University Hospitals of Leicester NHS Trust

Radiotherapy, Radiotherapy Physics and Hope Clinical Trials Facility

CHQ

| | |
|--|--|
| Radiotherapy Delivery Form | Extended Scope of Practice: Statement of Competence[Master Copy] |
| Extended Scope of Practice & Statement of Competence <div style="text-align: right;">University Hospitals of Leicester NHS <i>Caring at its best</i></div> | |
| Attach Photograph | Staff Name: Nicola Freeman |
| | Role: Consultant Radiographer - Head & Neck |
| | HCPC Registration No: RA41869 |
| | IR(ME)R Entitlement(s): Operator for all duties and entitlements listed below |



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

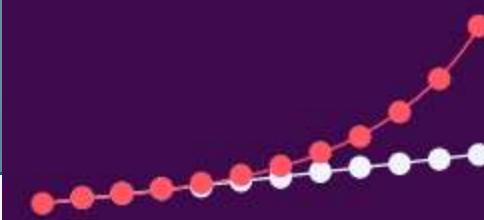
Understanding of the unique anatomical structures, disease processes and imaging techniques are key for accurate diagnosis



Why Head & Neck Imaging ?

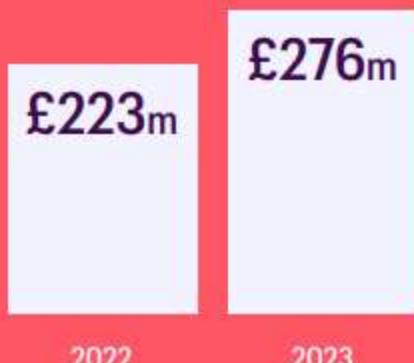


The radiology workforce grew by 6.3% in 2023.



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:

2022

2023

2028

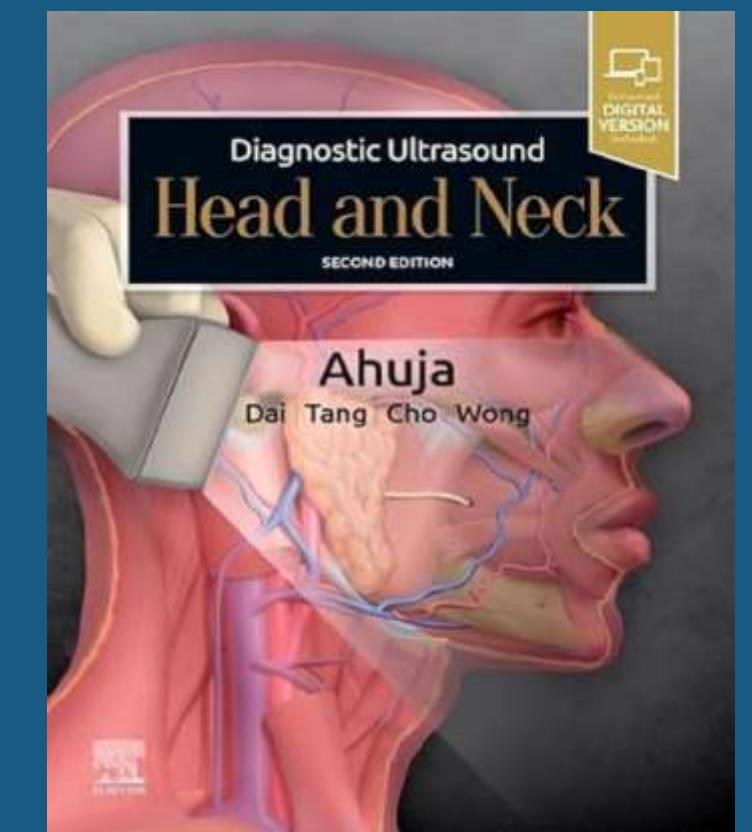
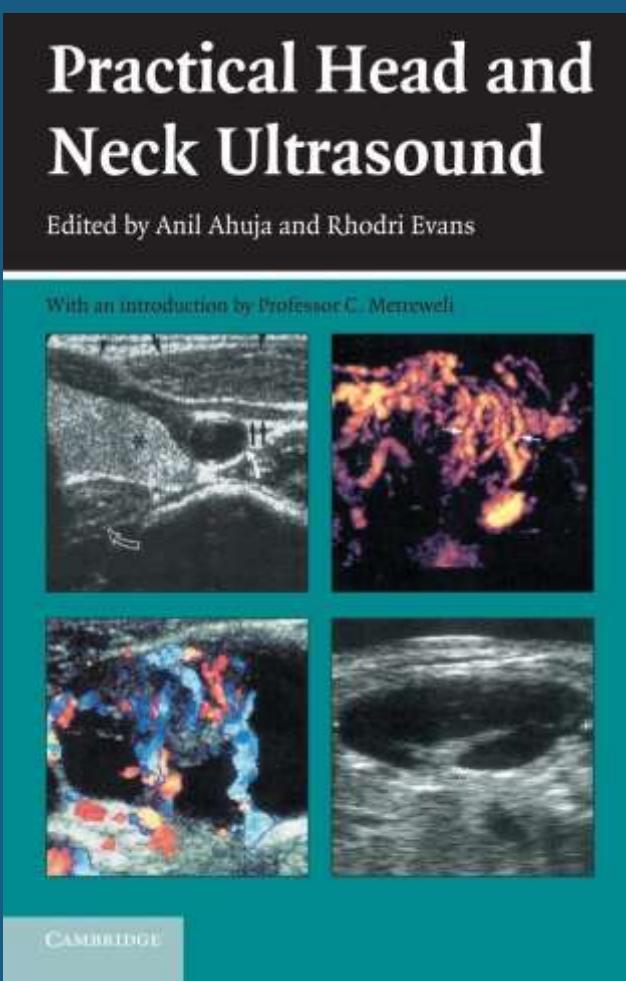
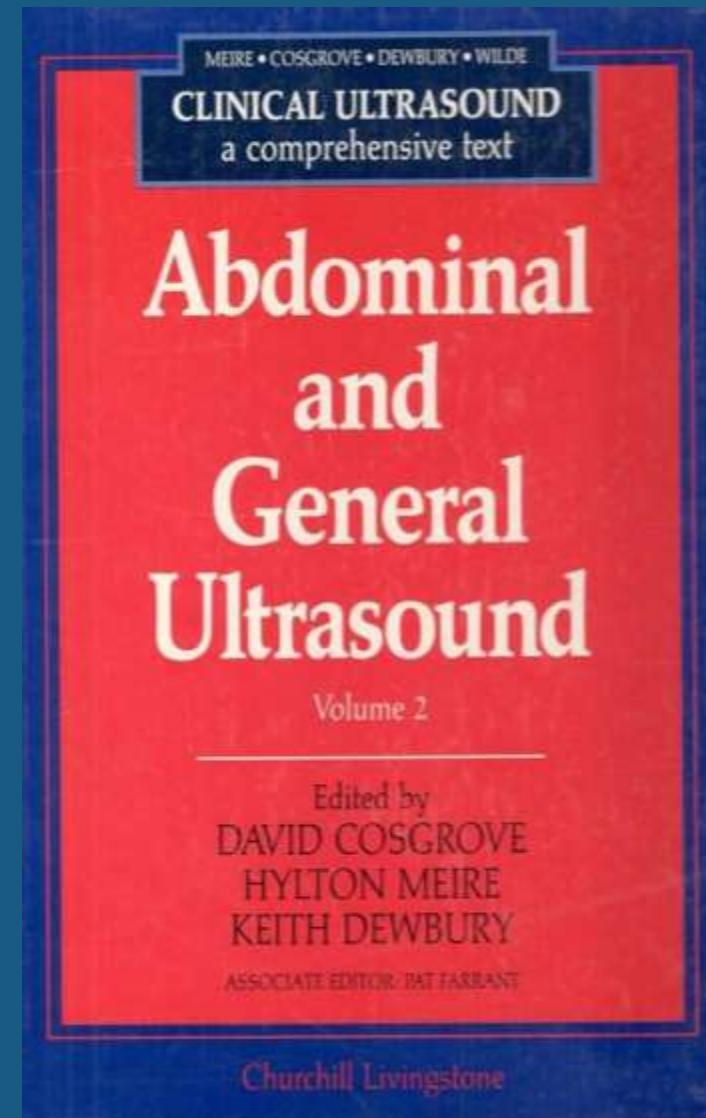
29% 30% 40%

(1,774 RADIOLOGISTS)

(1,962 RADIOLOGISTS)

(3,670 RADIOLOGISTS)

How ?



How ?

2017

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

www.rcr.ac.uk



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

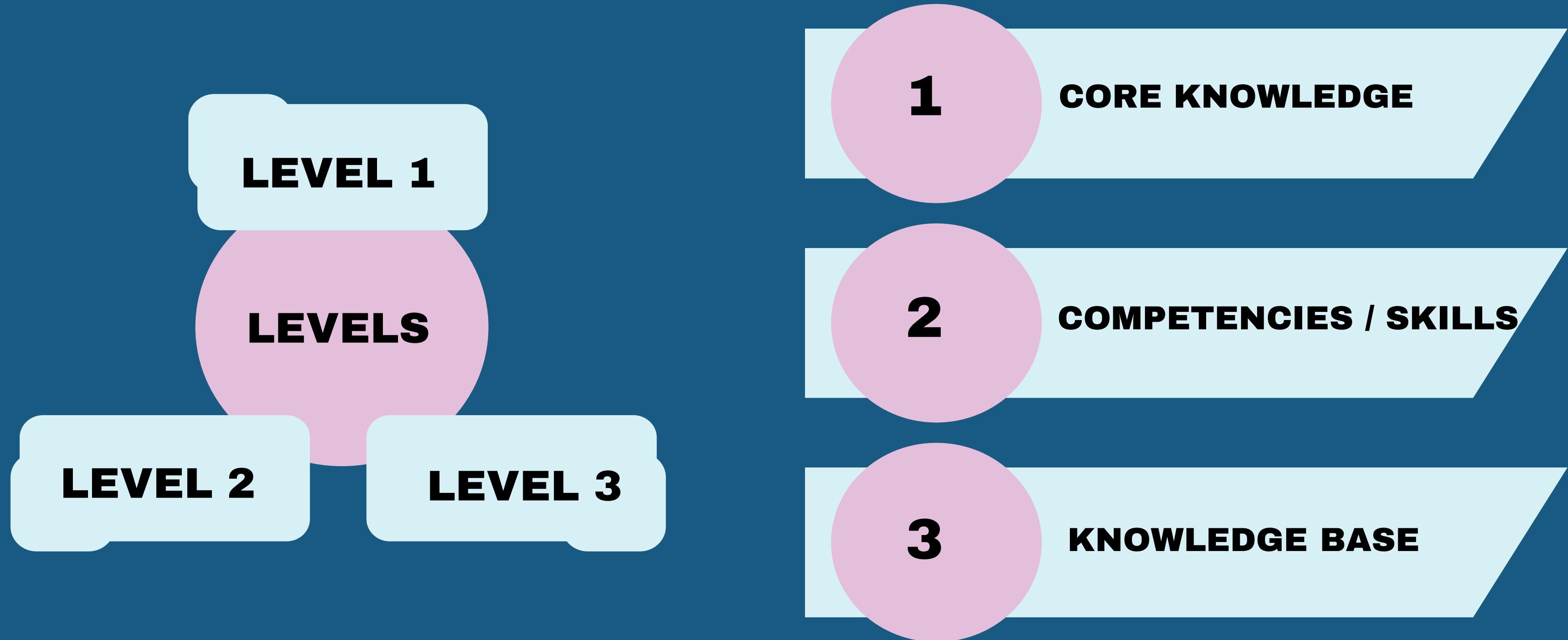
2012

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: | |
| NHS Trust | Revision date: | |
| GH, LGH, LRI | Page of | Version: 1 |

University Hospitals of Leicester **NHS**
NHS Trust

Ultrasound examination of the neck

Person Responsible for procedure: Consultant, Radiology Trainees, Sonographers

**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**
NHS Trust

Caring at its best

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



Ultrasound
OnlineFirst
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<https://doi.org/10.1177/1742271X24129920>

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 ¹, Rebecca White ², Heather Venables ², Vincent Lam ³, and Ram Vaidhyanath ³

University Hospitals of Leicester
NHS Trust



HEAD & NECK CANCER

POST TREATMENT

Imaging Clinical Business Unit

For Completion by Referring Practitioners



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.



Thyroid Core Biopsy Audit

M&M Meeting
5/8/22

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

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:

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

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

nicola freeman
Therapy radiographers take on the great ridge challenge

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

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

Fundraising for Leicester Hospitals Charity

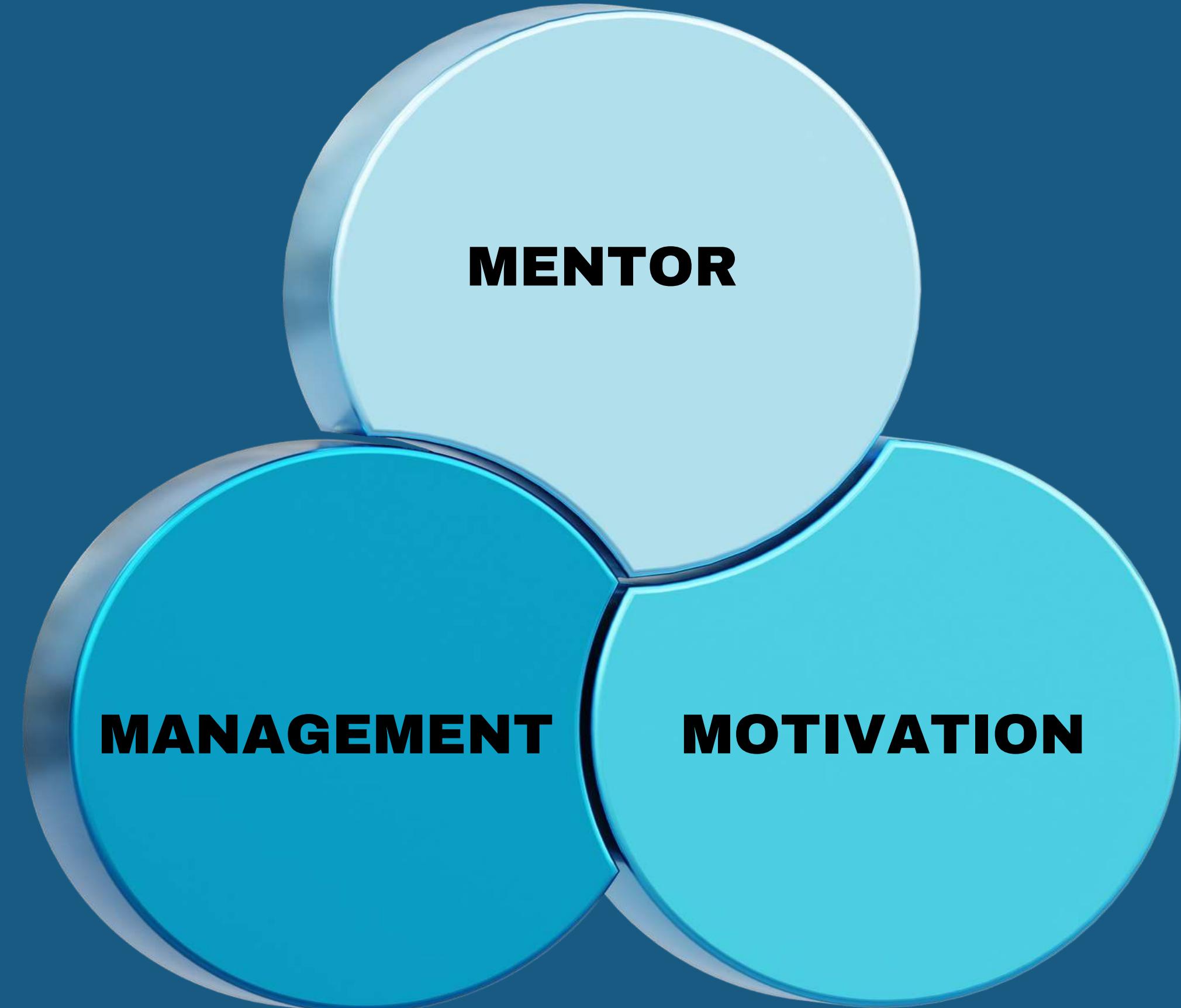
£2,255
225 %
raised of £1,000 target
by 98 supporters

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

| | |
|------------------------------------|---|
| STANDARD OPERATING PROCEDURE (SOP) | Issue date: 09/03/2021 |
| Trust Reference:C7/2021 | Revision date: N/A |
| University Hospitals of Leicester | Review date: 25 th 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

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

US Parathyroid





<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



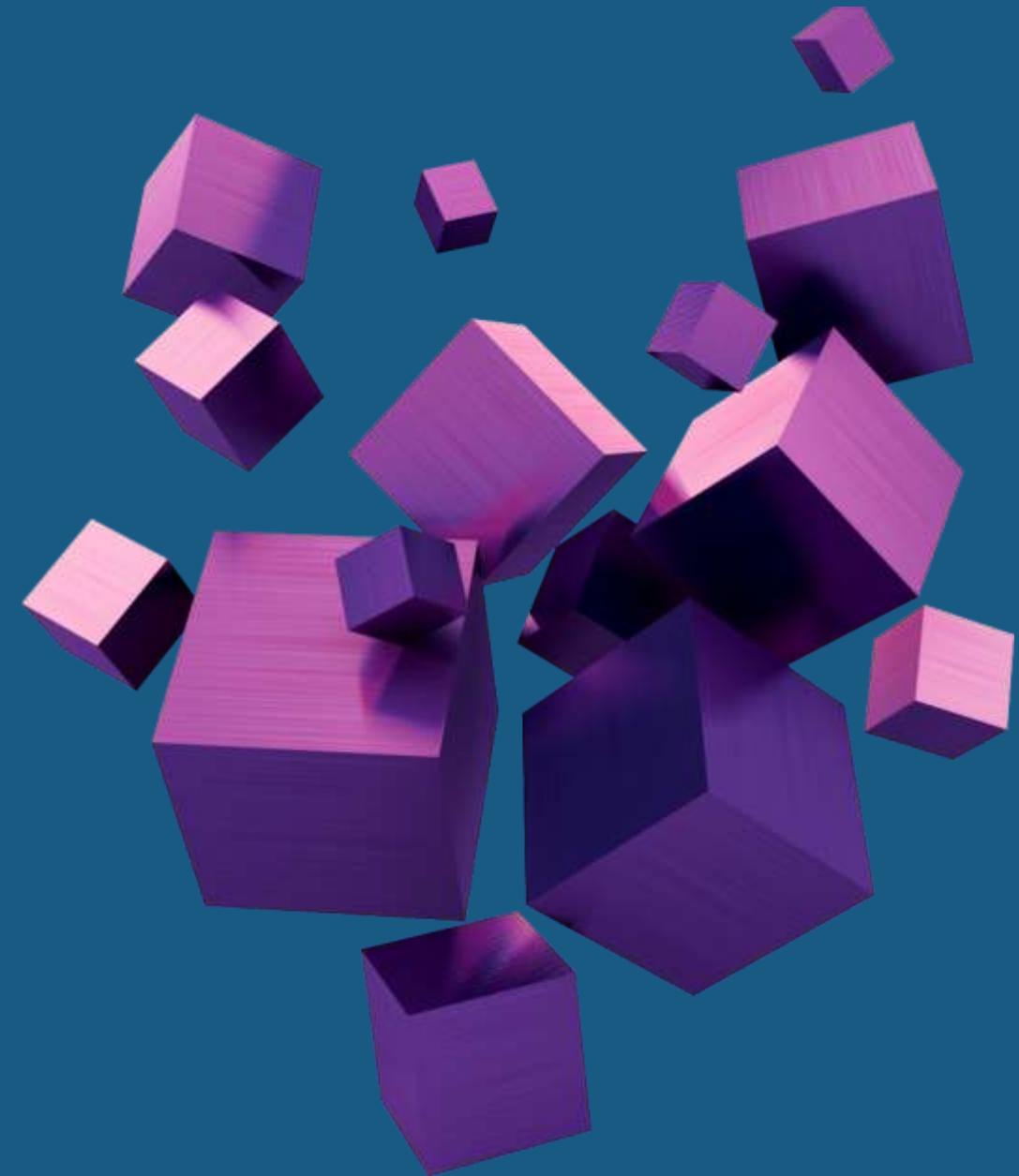
Head & Neck Imaging 2025

Annual Meeting of BSHNI & RSM

26 & 27 June 2025



#BSHNI25



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



@ramvaidhyanath