

## **CURRICULUM VITAE**

**Dr Adam Culverwell**  
***BSc (Hons) MBChB FRCR***

|                      |                                        |
|----------------------|----------------------------------------|
| Address              | 83 Otley Road<br>Harrogate<br>HG2 0DU  |
| Email                | adamculverwell@hotmail.com             |
| Telephone            | 07715108096                            |
| Date of Birth        | 21/06/80                               |
| GMC Registration No. | 6128324                                |
| CCT                  | 01/08/12 Specialist Register Radiology |

Fellow of the Royal College of Radiologists  
Member of the British Society of Gastro-intestinal  
and Abdominal Radiology

## **MEDICOLEGAL EXPERIENCE**

2017-

Since 2017 I have undertaken specialist medico-legal work with a particular focus on radiological imaging, radiological procedures, delayed diagnosis, cancer imaging and the management of acute and emergency presentations.

I have received formal and informal training and mentorship from a wide range of highly experienced medico-legal practitioners, including consultant radiologists, emergency physicians, neurosurgeons, HM Coroners and specialist medico-legal solicitors. This multidisciplinary exposure has provided me with a detailed understanding of the legal process, expert witness duties, report preparation, causation and the standards expected of independent medical experts.

I have prepared in excess of 50 medico-legal reports for both claimant and defendant parties, including personal injury, clinical negligence and coroner's cases. My work has involved detailed analysis of medical records, radiological investigations, chronology reconstruction and preparation of clear, balanced and evidence-based expert opinions.

Although I have substantial experience in medico-legal reporting, I deliberately limit my practice to approximately 5-10 cases per year. This ensures that every instruction receives sufficient time, careful consideration and the highest standard of expert review. I believe that maintaining a selective practice enables me to provide thorough, objective and well-reasoned reports while continuing my full-time NHS consultant role and maintaining current clinical expertise.

My areas of particular expertise include:

- Delayed diagnosis of cancer and missed radiological findings.
- Emergency and acute imaging, including CT head and body imaging.
- General radiology reporting and radiological procedures.
- Review of imaging pathways and standards of care in radiology practice.
- Coroner's reports and independent case reviews.
- Personal injury and clinical negligence claims for both claimant and defendant parties.

I understand and fully adhere to the duties of an expert witness as set out in Part 35 of the Civil Procedure Rules and the associated Practice Directions. I recognise that my overriding duty is to the Court and that my role is to provide independent, objective and unbiased opinion evidence within my area of expertise. My reports are prepared in accordance with these principles and are based upon a careful and balanced assessment of the available evidence. I accept instructions from both claimant and defendant solicitors and pride myself on providing independent, impartial and CPR compliant expert opinion of the highest professional standard.

## **RADIOLOGY CAREER**

|                   |                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| January 2023      | <b>Lead Cancer Clinician</b>                                                                                                            |
| August 2012 -     | <b>Consultant Radiologist Harrogate NHS Foundation Trust</b>                                                                            |
| January 2019      | <b>Early Cancer Diagnosis / Rapid Diagnostic Service Lead</b><br>(Yorkshire Cancer Alliance / Harrogate NHS Foundation Trust) - ongoing |
| January 2017-2023 | <b>Radiology Clinical Director</b>                                                                                                      |

June 2016     **Senior Honorary Lecturer** - University of Leeds Medical School

2007  
-2012     **Speciality Training Registrar in Radiology**  
Leeds/Bradford Radiology Academy

01/10/11     **Gastrointestinal Imaging and non-vascular**  
– 31/07/12     **intervention (GI Radiology Fellow)**  
Bradford Teaching Hospitals NHS Trust

## **EDUCATION & TRAINING**

### **University**

1999-2005     University of Leeds

2003     BSc (Hons) Anatomy 1<sup>st</sup> Class

2005     MBChB Medicine

### **Post Registration Qualifications**

2010     Fellow Royal College of Radiologists

## **CURRENT ROLE**

### **Consultant Radiologist Harrogate NHS Foundation Trust**

I currently work as a full time consultant radiologist in Harrogate NHS Trust. My primary speciality is GI and non-vascular intervention. However, my role also requires an extensive range of general radiology expertise across the modalities of plain film, CT, MRI, ultrasounds, fluoroscopy and intervention.

#### **CT**

All general oncology work, cranial CT, CT colonography, CT urography, all aspects of GI CT.

#### **MRI**

Body MRI including Liver MRI, MRCP, small bowel enterography, rectal and anal MRI.

General neurology, head and spinal MRI.

#### **Ultrasound**

Abdominal, renal, groin, testicular, superficial MSK (lump&bumps) and small bowel

**Plain film**

All aspects of plain film radiology

**Fluoroscopy**

Swallows, water-soluble enemas and surgical problem solving e.g. 'tubograms'. Nasogastric and nasojejunal tube insertion.

**Intervention**

Most biopsies, fine-needle aspirations percutaneous drainages, nephrostomies, biliary procedures, oesophageal and colorectal stenting.

**Multi disciplinary Teams (MDTs)**

I lead 3 oncology MDTs for the Trust – colorectal, upper Gastrointestinal and pancreatic.

I also lead 3 general MDTs – general surgical, inflammatory bowel disease and intensive care.

## **MANAGEMENT - CURRENT ROLES**

|        |                                                                                       |
|--------|---------------------------------------------------------------------------------------|
| 2023   | <b>Lead Cancer Clinician</b>                                                          |
| 2019 - | <b>Clinical and Project Lead for Early Cancer Diagnosis / Rapid Diagnostic Centre</b> |
| 2016-  | <b>CT Lead</b><br>Radiology Department Harrogate District Hospital                    |
| 2012-  | <b>Gastrointestinal Radiology Lead</b>                                                |

## **SERVICE DEVELOPMENT**

|       |                                                                                                                                                                                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2020- | <b>New CT unit deployment- Harrogate NHS Trust</b><br>Short notice creation of the physical and operational infrastructure required for a new CT scanner gifted to support Harrogate NHS Trust during COVID-19 recovery. Now operational.                                                     |
| 2020  | <b>CT scanner Nightingale Hospital</b><br>Clinical lead delivering NHS England's goal to adapt the Yorkshire and Humber Nightingale Hospital's CT scanner for outpatient services both for Harrogate and regional hospitals. This unit remains operational scanning patients 7 days per week. |

- 2019- **New CT suite design for HDH.**  
Delivering/designing a combined vision for HDH (in partnership with Yorkshire Cancer Research) to create a brand new, bespoke Dual CT scanner unit. Construction on hold as a result of COVID-19 pandemic.
- 2018 **Early Cancer Diagnosis and Rapid Diagnostic Centre**  
Founded the project to deliver NHS Englands goal to have all patients referred with a possible cancer aware of their diagnosis with 28 days.  
As project lead since its inception we have created several new pathways for suspected cancer diagnosis and created a Rapid Diagnostic Centre to expedite difficult cases.
- 2014-2015 **Radiology lead for the Trust's Radiology Services Review**  
Working group set up to develop a medium and long term strategic plan for Radiology Services at HDH, to manage increasing demand from changes in clinical practice eg stroke, oncology, MSK developments, manage the rapidly increasing activity and ensure compliance with present/future NICE guidance. This review also introduced effective and sustainable 7-day services.

## **TEACHING**

### **Medical Undergraduates (University of Leeds)**

- 2012-ongoing Clinical Radiology / Surgery Tutorials  
Weekly case based presentation educational tutorials for those on surgical attachments at HDH (3<sup>rd</sup> year and 5<sup>th</sup> year). These sessions are aimed at discussing management and investigation of surgical procedures. Students are encouraged to find interesting patients and present their cases to the group. Any relevant radiology is discussed. We move on to interesting radiology cases of the week.
- 2015ongoing Radiology rotations for medical students  
3<sup>rd</sup> year students. This allows students an opportunity to spend time in the radiology department to learn about the career of radiology. It provides an educational opportunity with a focus on indications in radiology, benefits of different modalities, anatomy and basic image interpretation.

## **TEACHING EXPERIENCE Cont'd**

|                   |                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012<br>ongoing   | <u>Lectures</u><br>For all medical students based at HDH. Program of educational talks on radiology topics including – ‘How to best use a radiology department’, ‘CT, Ultrasound or MRI- what should I request?’ and ‘CXR and AXR pearls and pitfalls’. |
| 2013 -<br>ongoing | <u>Tutorials</u><br>Available to all students (usually best attended by those on medical attachments) One or two per attachment.<br>CXR interpretation and interesting cases                                                                            |
| 2012 –<br>ongoing | <u>Day-to-day apprentice style teaching</u><br>For example I currently have a 5th year medical student (rotating through general surgery) shadowing me for 1 - 2 sessions per week.<br>I am always approachable and keen to teach in this context       |

### **Radiology Trainees**

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012<br>ongoing | <u>Problem Based Learning</u><br>I facilitate tutorials including polytrauma CT, acute / surgical GI imaging, liver imaging and head CT. Based at the Leeds Radiology Academy<br>I have received very positive feedback from these teachings, with my last teaching receiving an overall score of 4.75 / 5.<br><br><u>Clinical supervision / in house teachings</u><br>I am the clinical supervisor for GI and general radiology trainees rotating through the department as part of their checkboard radiology training. |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| 2012 -<br>ongoing | <b>Radiographers</b><br><br>Monthly tutorials to department radiographers on a variety of topics and interesting cases. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|

|                   |                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012 -<br>ongoing | <b>Emergency Department Clinicians</b><br><br>Quarterly teachings to A&E trainees includes various subjects, mainly CT head and trauma plain film interpretation. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- 2012            **Teaching & Supporting Learning Course**  
Yorkshire and Humber Deanery  
**TRAINEE SUPERVISION**
- 2013 –  
ongoing        Educational Supervisor for Foundation Year Doctors
- 2012 -  
ongoing        Clinical Supervisor for radiology trainees

## **PUBLICATIONS**

- 2016            **Chronic inflammation masquerading as an appendiceal tumour with peritoneal metastasis: the challenge of diagnosis and the lessons learnt.**  
Almerie MQ, Culverwell A, Krishna J & Mahon C. BMJ Case Rep. 2016
- 2015            **Clostridium difficile infection after ileostomy closure mimicking anastomotic leak. Case Report.**  
Almerie MQ, Culverwell A & Mahon C. BMJ Case Rep. 2015
- 2012            **Optimizing the role of FDG PET-CT for potentially operable metastatic colorectal cancer.**  
Culverwell A.D., Chowdhury F. & Scarsbrook A.  
*Abdominal Imaging* (Accepted and awaiting publication)
- This article reviews the role of PET-CT in patients with CRC, exploring the evidence, utility and cost effectiveness of this technique. There is a particular emphasis on patients with potentially operable metastatic disease.
- 2011            **Diffusion weighted MRI of the Liver – Interpretive pearls and pitfalls, a pictorial essay.**  
Culverwell A.D., Scarsbrook A. & Guthrie A.  
*Clinical radiology* (Submitted / Commissioned article)
- This article reviews the utility of diffusion weighted (DW) MRI for detection and characterisation of focal hepatic lesions and illustrates key interpretive pearls and pitfalls of diffusion weighted MR.

## PUBLICATIONS Cont'd

- 2011      **False-positive uptake on 2-(fluorine-18) fluoro-2-deoxy-D-glucose (FDG) positron emission tomography/computed tomography (PET/CT) in oncological imaging.**  
Culverwell A.D., Scarsbrook A. & Chowdhury F.

*Clinical Radiology*. 2011; 66(4):366-82.

In my role leading MDTs, I have needed to develop a greater understanding and ability to interpret imaging with FDG-PET/CT which is now becoming commonplace, especially in Upper GI oncology. As part of this process I authored this article.

The article discusses the non-specific nature of FDG in oncology, providing, with the use of illustrative clinical cases, a systematic overview of potential interpretative pitfalls and illustrates how such unexpected findings can be appropriately evaluated.

- 2011      **Patient Experience, Pain, and Quality of Life after Lower Limb Angioplasty: A Multisite Prospective Cohort Study.**  
Culverwell A.D., Tapping C.R. Ettles D.F. & Kessel D.  
*Cardiovascular & Interventional Radiology*. 2011. [Epub ahead of print]

A research study exploring the experience of patients undergoing endovascular lower limb angioplasty and the improvements in quality of life and disease-related symptoms after the procedure. The results showed how with implementation of simple measures patient satisfaction and quality of life can be improved.

- 2011      **Iliac artery occlusion with "oxbow lake" formation following stent deployment in a tortuous external iliac artery during EVAR: a case report. Vascular and Endovascular Surgery.**  
Culverwell A.D., Kent P., Puppala S.  
*Vascular and Endovascular Surgery*, 2011; 45:668-71.

A case report that describes a potentially foreseeable and manageable complication seen with tortuous vascular anatomy.

## PUBLICATIONS Cont'd

- 2009      **Are radiologists able to manage serious anaphylactic reactions and cardiopulmonary arrest?**  
Tapping CR & Culverwell AD.  
*British Journal of Radiology*, 2009; 82:793-799.
- A study aimed to assess the ability and confidence of radiologists in managing adult life support in and acute anaphylaxis. The study showed deficiencies in knowledge and training emphasising the need for regular life support training and the need to alter the attitude of radiologists.
2007.      **Congenital Talipes Equinovarus in Papua New Guinea: a potentially manageable situation**  
Culverwell A.D & Tapping C.R.  
*International Orthopaedics*, 2009; 33:521-522.
- 2005      **Congenital musculoskeletal deformities in Wewak General Hospital, Papua New Guinea.**  
Culverwell A.D & Tapping C.R.  
Surgical Research Report 2005-2007. Royal College of Surgeons of England, London, pp 44.

## PRIZES & AWARDS

- 2010      **Recommended Poster Award**  
DIFFUSION WEIGHTED MRI OF THE LIVER - INTERPRETATIVE PEARLS AND PITFALLS  
European Society of Gastrointestinal and Abdominal Radiology (ESGAR) Dresden, 2010.  
Awarded to top 20 posters out of 310 presented
- 2009      **Best Presentation Award 2009**  
CONTRAST ENHANCED ULTRASOUND IN LIVER IMAGING. Leeds Radiology Academy  
1<sup>st</sup> prize from 13 presentations
- 2008      **Research Grant - British Society of Interventional Radiology**  
PATIENT EXPERIENCES WITH VASCULAR INTERVENTIONAL RADIOLOGICAL PROCEDURES – A MULTI-SITE PROSPECTIVE COHORT STUDY.
- Pre-Radiology Awards
- 2005      **Preiskel Prize in Surgery** Royal College of Surgeons (England) 2004/2005  
National Prize for Research

## BOOKS

- 2012      **Fistula-in-Ano in MRI Imaging**  
Culverwell A.D, Hyland R & Tolan D.  
Textbook of Abdominal MRI  
(editor Prof Elsayes, university of Texas). Thieme Publishers New York (submitted).
- An illustrative book chapter aimed at radiologists wishing to learn the skill of reporting fistula-in-ano MRI. The chapter describes the pathology and anatomy and illustrates with examples how to form a useful report.

## INTERNATIONAL PRESENTATIONS / EXHIBITS

- 2012      **An analysis of the National Health Service Litigation Authority (NHSLA) settled claims in relation to radiology: Are there lessons to be learnt?**  
Hulson O & Culverwell A.D.  
*European Congress of Radiology*  
Educational Exhibit  
To be presented March 2012 - Vienna
- 2012      **Cystic Splenic Lesions - Educational Case Presentation / Discussion**  
Culverwell A.D.  
*British Society of Gastro-intestinal and Abdominal Radiology*  
Oral Presentation
- 2012      **Liver resection for colorectal metastases - is there variation in referral practice between colorectal MDTs in a cancer network? A prospective study.**  
Young A,\*, Adair R, Culverwell A, Morris E, Guthrie A, Botterill I, Toogood G, Lodge P & Prasad D.  
*Digestive Disease Federation (Submitted)*  
Oral Presentation
- 2012      **Liver resection for colorectal metastases – are enough patients being considered for resection? a prospective study.**  
Culverwell A \*, Young A, Adair R, Morris E, Guthrie A, Botterill I, Toogood G, Lodge P & Prasad D.  
*United Kingdom Radiology Congress*  
Oral Presentation (accepted but awaiting presentation)

## INTERNATIONAL PRESENTATIONS / EXHIBITS Cont'd

2012.        **Lymphoma of the GI Tract - Radpath review**  
A.D. Culverwell, D. Tolan, E. Godfrey, R. Hyland  
  
*European Society of Gastrointestinal and Abdominal Radiology*  
(Accepted and awaiting presentation)  
Educational Exhibit
2012.        **Staging of early rectal lesions with endorectal ultrasound – results from a retrospective audit of 149 patients**  
A.D. Culverwell, A. Lowe, S. Punekar, D. Prasad, C. Kay  
*European Society of Gastrointestinal and Abdominal Radiology*  
(Accepted and awaiting presentation)  
Educational Exhibit
2012.        **Abdominal Manifestations of Neurofibromatosis Type 1**  
A.D. Culverwell, A. Lowe, S. Punekar, D. Prasad, C. Kay  
*European Society of Gastrointestinal and Abdominal Radiology*  
(Accepted and awaiting presentation)  
Educational Exhibit
2012.        **Cystic lesions of the spleen - RadPath Correlation**  
A.D. Culverwell, A. Lowe, S. Punekar, D. Prasad, C. Kay  
*European Society of Gastrointestinal and Abdominal Radiology*  
(Accepted and awaiting presentation)  
Educational Exhibit
- 2012        **National survey of colonic imaging in the UK**  
A. Lowe, A.D. Culverwell, S. Punekar, D. Prasad, C. Kay  
*European Society of Gastrointestinal and Abdominal Radiology*  
(Accepted and awaiting presentation)  
Oral Presentation
- 2010        **Patient Experiences with Vascular Interventional Radiological Procedures – A Multi-site Prospective Cohort Study.**  
Tapping C.R.\* Culverwell A.D., Kessel D. & Ettles D.  
*Radiological Society of North America (RSNA)*  
Oral Presentation

- 2010      **Diffusion weighted MRI of the liver - Interpretative Pearls and Pitfalls.**  
Culverwell A.D., Briggs R., Sheridan M., Scarsbrook A. & Guthrie A.  
*European Society of Gastrointestinal and Abdominal Imaging (ESGAR)* Dresden  
Educational Exhibit  
Recommended Poster Award
- 2009      **Initial results: Patient Experiences with Interventional Radiological Procedures – A Multi-site Prospective Cohort Study**  
Tapping C.R., Culverwell A.D., Kessel D. & Ettles D.  
*British Society of Interventional Radiology*  
Poster Presentation
- 2009      **Ultrasound Measurement Of Intra-abdominal Fat As An Accurate Measure Of Obesity And Cardiovascular Risk**  
Culverwell A.D.  
*UK Radiology Congress*  
Educational Exhibit
- 2009      **The Standard of CPR Amongst Radiologists and Review of the Guidelines**  
Culverwell A.D & Tapping C.R  
*European Congress of Radiology*  
Educational Exhibit