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## Overview

Clinical lead for technical radiotherapy; member of the Radiation-Related Research group; member of the Christie Urological Disease orientated Group; Urology Radiotherapy Research lead; Clinical project lead for MR Linac; RCR College Tutor; Academic Clinical Fellow lead for Clinical Oncology.  
Urology radiotherapy lead for The Christie at Oldham; Member of National CTRad (Radiotherapy Research Group) Workstream II: phase/II radiotherapy-related studies; Member of National Bladder Cancer Clinical Studies Group; NICE Bladder Cancer Guideline Development Group.

## Employment

### **Chair and Honorary Consultant in Clinical Oncology, Co-Group Leader Translational Radiobiology**

Academic (Teaching & Research) Clinical Professor  
Division of Cancer Sciences (L5)  
The University of Manchester  
1 Apr 2018 → present

## Research outputs

### **MR guided uncertainty quantification of tumour motion in open face masks versus closed face masks in head and neck radiotherapy**

Tallon, J., Nelder, C., Dobby, B., Greenwood-Wilson, A., Bailey, R., Dubec, M., McPartlin, A., Gaffney, J., van Herk, M., Choudhury, A. & Eccles, C. L., 1 May 2026, In: Journal of Medical Imaging and Radiation Sciences. 57, 3, 7 p., 102196.

### **Reirradiation Options for Previously Irradiated Prostate Cancer: Is It Feasible to Randomise Between Treatment With Stereotactic Body Radiotherapy (SBRT) Versus High-Dose-Rate Brachytherapy?**

Zhong, J., Slevin, F., Brown, S., Serra, M., Bownes, P., Thompson, C., Reed, R., Reeves, K., Dubec, M., Eccles, C., Chuter, R., Tsang, Y. M., Taylor, N. J., West, C. M. L., Buckley, D., Alonzi, R., Scarsbrook, A., Choudhury, A., Hoskin, P. & Henry, A. M., 1 Apr 2026, In: Clinical Oncology. 52, 7 p., 104085.

### **Integration of Dose Surface Maps and Genetic Data Identifies the Lower Posterior Rectum as a Key Region for Toxicity after Prostate Cancer Radiotherapy**

Bouzaki, A., Vasquez Osorio, E., Kerns, S., Van Herk, M., Morris, A., Shortall, J., Azria, D., Farcy-Jacquet, M. P., Chang-Claude, J., Choudhury, A., Dunning, A., Lambrecht, M., Avuzzi, B., de Ruysscher, D., Seibold, P., Sperk, E., Talbot, C., Vega, A., Veldeman, L. & Webb, A. & 5 others, Rosenstein, B., West, C., Rancati, T., Gioscio, E. & McWilliam, A., 17 Oct 2025, In: Clinical Cancer Research. p. OF1-OF9

**Retrospective review of patient factors impacting free-breathing respiratory motion magnitude for MR-guided radiotherapy**  
Daly, M., Egan, H., Choudhury, A., Radhakrishna, G. & Eccles, C. L., 30 Sept 2025, In: Technical Innovations & Patient Support in Radiation Oncology. 35, 100339.

### **Enzalutamide plus radium-223 in metastatic castration-resistant prostate cancer: results of the EORTC 1333/PEACE-3 trial**

Tombal, B., Choudhury, A., Saad, F., Gallardo, E., Soares, A., Lorient, Y., McDermott, R., Rodriguez-Vida, A., Isaacsson Velho, P., Nolè, F., Cruz, F., Roumeguere, T., Daugaard, G., Yamamura, R., Bompas, E., Maroto, P., Gomez Veiga, F., Skoneczna, I., Martins da Trindade, K. & Mavignier Carcano, F. & 5 others, Lecouvet, F., Coens, C., Poncet, C., Fournier, B. & Gillissen, S., 1 Sept 2025, In: Annals of Oncology. 36, 9, p. 1058-1067

**WSB-1 regulates DNA repair and the response to DNA damage response inhibitors in breast cancer**

Antonopoulou, E., Li, C., Shamin, A., Taylor, S., Poujade, F., Lind, M., Roy, R., Choudhury, A. & Pires, I., 1 Sept 2025, bioRxiv, p. 1-26, 26 p.

**Apparatus and Experiments Towards Fully Automated Medical Isotope Production Using an Ion Beam Accelerator**

Hussain, A. Y. M., Baidak, A., Choudhury, A., Smith, A., Andrews, C., Wojcik, E., Brown, L., Nancekievill, M., De Moraes Shubeita, S., Smith, T. A. D., Yasakci, V. & Currell, F., Sept 2025, In: Instruments. 9, 3, 18.

**Cell Surface Proteomics Reveals Hypoxia-Regulated Pathways in Cervical and Bladder Cancer**

Alanazi, F., Sharif, A., Kidd, M., Keevill, E.-J., Biolatti, L., Unwin, R., Hoskin, P., Choudhury, A., Smith, T. & Guerrero Quiles, C., 5 Aug 2025, In: Proteomes. 13, 18 p., 36.

**Metformin for patients with metastatic prostate cancer starting androgen deprivation therapy: a randomised phase 3 trial of the STAMPEDE platform protocol**

STAMPEDE Investigators & Choudhury, A., 1 Aug 2025, In: The Lancet. Oncology. 26, 8, p. 1018-1030

**Intensity-modulated moderately hypofractionated radiotherapy versus stereotactic body radiotherapy for prostate cancer (PACE-C): early toxicity results from a randomised, open-label, phase 3, non-inferiority trial**

PACE Investigators, 1 Jul 2025, In: The Lancet Oncology. 26, 7, p. 936-947

**1317 A comparative analysis of the dosimetric benefits of the library of plans and daily online adaptation on MR-Linac for cervical cancer**

Alshamrani, A., Chuter, R., Brewster, F., Aznar, M., Hoskin, P., Nelder, C., Choudhury, A. & Eccles, C. L., 31 May 2025, In: Radiotherapy and Oncology. 206, S1, 3 p.

**1817 Comparison of target volume changes in T2W and DWI with ADC and cumulative delivered dose in muscle invasive bladder cancer**

Tallon, J., Mchugh, D., Dobby, B., Nelder, C., Dubec, M., VanHerck, M., Eccles, C. & Choudhury, A., 31 May 2025, In: Radiotherapy and Oncology. 206, 2 p.

**2470 Dose accumulation and its correlation with toxicity and clinical outcome in MR-guided pancreatic SABR**

Shabbir, R., Daly, M., Sivakaran, R., Vasquez Osorio, E., Radhakrishna, G., Choudhury, A. & Eccles, C., 31 May 2025, In: Radiotherapy & Oncology. 206, S1, p. S1799-S1801 3 p.

**Quantifying the dosimetric impact of online daily adaptation for MR-guided RT in cervical cancer.**

Alshamrani, A., Chuter, R., Aznar, M. C., Hoskin, P., Nelder, C., Choudhury, A., Barraclough, L. & Eccles, C., 19 May 2025, In: Acta Oncologica . 64

**The value of post radiotherapy prostate specific antigen dynamics for prostate cancer risk stratification models**

Shortall, J., Vasquez Osorio, E., Green, A., Reeves, K., Wong, D., Puri, T., Hoskin, P., Choudhury, A., Van Herck, M. & McWilliam, A., 18 May 2025, (E-pub ahead of print) In: Physics and Imaging in Radiation Oncology. 34, 100787.

**Incidental findings in volunteer imaging used to develop radiotherapy MRI workflows**

McDaid, L., Datta, A., Bonington, S., Manoharan, P., O'Connor, J., Hoskin, P., Choudhury, A. & Eccles, C., 1 May 2025, In: Journal of Medical Imaging and Radiation Sciences. 56, 3, 101863.

**Establishing the UK's First Allied Health Professional Doctoral Academy in Radiotherapy**

Eccles, C. L., Chown, R., Aznar, M., McWilliam, A., Radhakrishna, G., Daly, M., Alshamrani, A., Shabbir, R., Chuter, R., Choudhury, A., Hoskin, P. & Bristow, R., May 2025, In: Radiotherapy and Oncology. 206, p. S4228-S4228 1 p.

**MR guided motion analysis of open faced masks versus closed faced masks in head and neck radiotherapy**

Tallon, J., Clough, A., Nelder, C., Dobby, B., Bailey, R., Greenwood-Wilson, A., Dube, M., VanHerck, M., Eccles, C. & Choudhury, A., May 2025, In: Radiotherapy and Oncology. 206, p. S4069-S4070 2 p.

**Prostate R2\* measurements on an MR-Linac are repeatable and sensitive to treatment-induced changes**

Moore, C., Ezekiel, A., Saad, E., Swinton, M., Buckley, D. L., Choudhury, A., Eccles, C. L., Hoskin, P., Dubec, M. J. & Mchugh, D. J., May 2025, In: Radiotherapy and Oncology. 206, p. S3732-S3733 2 p.

**Hypoxia-Associated Gene Signatures Are Not Prognostic in High-Risk Localized Prostate Cancers Undergoing Androgen Deprivation Therapy With Radiation Therapy**

Reardon, M. D., Bibby, B. A., Thiruthaneeswaran, N., Pereira, R. R., Mistry, H., More, E., Tsang, Y., Vickers, A., Reeves, K., Henry, A., Denley, H., Wylie, J., Spratt, D., Hakansson, A., Ryu, M., Smith, T. A., Hoskin, P. J., Bristow, R., Choudhury, A. & West, C. M., 1 Mar 2025, In: International Journal of Radiation: Oncology - Biology - Physics. 121, 3, p. 752-760 9 p.

**New rectum dose surface mapping methodology to identify rectal subregions associated with toxicities following prostate cancer radiotherapy**

Bouzaki, A., Green, D., van Herk, M., Shortall, J., Puri, T., Kerns, S., Azria, D., Farcy-Jacquet, M. P., Chang-Claude, J., Choudhury, A., Dunning, A., Lambrecht, M., Avuzzi, B., Ruyscher, D. D., Seibold, P., Sperk, E., Talbot, C., Vega, A., Veldeman, L. & Webb, A. & 6 others, Rosenstein, B., West, C. M., Gioscio, E., Rancati, T., Osorio, E. V. & McWilliam, A., 20 Jan 2025, In: Physics and Imaging in Radiation Oncology. 33, 100701.

**Decrease in Fracture Rate with Mandatory Bone-protecting Agents in the EORTC 1333/PEACE-3 Trial Comparing Radium-223 Combined with Enzalutamide Versus Enzalutamide Alone: A Safety Analysis**

Gillessen, S., Tombal, B., Turco, F., Choudhury, A., Rodriguez-Vida, A., Gallardo, E., Isaacsson Velho, P., Nolè, F., Cruz, F., Loriot, Y., McDermott, R., Roumeguere, T., Daugaard, G., Yamamura, R., Bompas, E., Maroto, P., Herrero Polo, M., Martins da Trindade, K., D'Almeida Preto, D. & Skoneczna, I. & 4 others, Lecouvet, F., Coens, C., Fournier, B. & Saad, F., 17 Jan 2025, (E-pub ahead of print) In: European Urology.

**Association of radiation-induced normal tissue toxicity with a high genetic risk for rheumatoid arthritis**

REQUITE consortium, McWilliam, A., Marshall, D., Kerns, S. L., Barnett, G. C., Vega, A., Kapouranis, T., Aguado Barrera, M. E., Avuzzi, B., Azria, D., Chang-Claude, J., Choudhury, A., Coedo Costa, C., Dunning, A., Farcy-Jacquet, M.-P., Faivre-Finn, C., Gutiérrez-Enríquez, S., Fuentes Río, O., Gómez Caamaño, A. & Lambrecht, M. & 11 others, López Pleguezuelos, C., Rancati, T., Rattay, T., De Ruyscher, D., Seibold, P., Sperk, E., Talbot, C., Webb, A., Veldeman, L., Rosenstein, B. S. & West, C. M. L., 6 Jan 2025, (E-pub ahead of print) In: Journal of the National Cancer Institute. djae349.

**Dose-escalated Adaptive Radiotherapy for Bladder Cancer: Results of the Phase 2 RAIDER Randomised Controlled Trial**

Huddart, R. A., Hafeez, S., Griffin, C. L., Choudhury, A., Foroudi, F., Syndikus, I., Hindson, B., Webster, A., McNair, H. A., Birtle, A., Varughese, M., Henry, A., McLaren, D. B., Parikh, O., Nikapota, A., Tang, C., Patel, E., Miles, E., Warren-Oseni, K. & Kron, T. & 7 others, Hill, C., Philipps, L., Vassallo-Bonner, C., Cheung, K. C., Gribble, H., Lewis, R. & Hall, E., 1 Jan 2025, In: Eur Urol. 87, 1, p. 60-70

**Translation of dynamic contrast-enhanced imaging onto a magnetic resonance-guided linear accelerator in patients with head and neck cancer**

Dubec, M. J., Berks, M., McDaid, L., Little, R. A., Cheung, S., van Herk, M., Choudhury, A., Matthews, J. C., Parker, G. J. M., Buckley, D. L. & O'Connor, J. P. B., Jan 2025, In: Physics and Imaging in Radiation Oncology. 33, p. 100689

**Oxygen-enhanced MRI detects incidence, onset and heterogeneity of radiation-induced hypoxia modification in HPV-associated oropharyngeal cancer**

Dubec, M., Price, J., Berks, M., Gaffney, J., Little, R., Porta, N., Sridharan, N., Datta, A., McHugh, D., Hague, C., Cheung, S., Manoharan, P., Van Herk, M., Choudhury, A., Matthews, J., Parker, G., Buckley, D., Harrington, K. J., Mcpartlin, A. & O'Connor, J., 16 Dec 2024, In: Clinical Cancer Research. 30, 24, p. 5620-5629 10 p.

**Immune effects of  $\alpha$  and  $\beta$  radionuclides in metastatic prostate cancer**

Lunj, S., Smith, T. A. D., Reeves, K. J., Currell, F., Honeychurch, J., Hoskin, P. & Choudhury, A., Nov 2024, In: Nature Reviews Urology. 21, 11, p. 651-661 11 p.

**Impact of motion management strategies on abdominal organ at risk delineation for magnetic resonance-guided radiotherapy**

Daly, M., Mcdaid, L., Anandadas, C. N., Brocklehurst, A., Choudhury, A., Mcwilliam, A., Radhakrishna, G. & Eccles, C., 1 Oct 2024, In: *Physics and Imaging in Radiation Oncology*. 32, 100650.

**Investigating the impact of the interstitial fluid flow and hypoxia interface on cancer transcriptomes using a spheroid-on-chip perfusion system**

Pyne, E., Reardon, M., Christensen, M., Mateos, P. R., Taylor, S., Iles, A., Choudhury, A., Pamme, N. & Pires, I. M., 11 Sept 2024, In: *Lab on a Chip*. 24, 19, p. 4609-4622 14 p.

**CN24 Experience with the routine use of ePROMs in nurse and pharmacist-led telephone clinics for patients with prostate cancer**

O'Connor, K., Nuamek, T., Fornacon-Wood, I., Robinson, A., Lyons, J., Coleman, H., Khan, A., Patel, K., Choudhury, A., Conroy, R., Croxford, W., Hudson, A., Logue, J., Song, Y. P., Tran, A., Wylie, J., Yorke, J., Faivre-Finn, C., Serra, M. J. & Price, J., 1 Sept 2024, In: *Annals of Oncology*. 35, p. S1175

**1834: Blood oxygenation level dependent (BOLD) MRI of the prostate on an MR Linac**

Ezekiel, A., Swinton, M., Buckley, D. L., Choudhury, A., Eccles, C. L., Hoskin, P., Dubec, M. & McHugh, D., 30 Aug 2024, (E-pub ahead of print) In: *Radiotherapy and Oncology*. 194, S1, p. S3873-S3876 4 p.

**Evaluation of accumulated OAR dose DIR methods for MR-guided pancreas SABR**

Daly, M., Vasquez Osorio, E., Choudhury, A., Mcwilliam, A., Radhakrishna, G. & Eccles, C., 30 Aug 2024, (E-pub ahead of print) In: *Radiotherapy & Oncology*. 194, S1, p. S3634-S3637

**Implementation of RTT-led OAR delineation training for pancreatic SABR on the MR Linac.**

Daly, M., Brocklehurst, A., Dobby, B., Nelder, C., Tallon, J., Mcdaid, L., Choudhury, A., Mcwilliam, A., Radhakrishna, G. & Eccles, C., 30 Aug 2024, (E-pub ahead of print) In: *Radiotherapy & Oncology*. 194, S1, 1344.

**Investigating the impact of the interstitial fluid flow and hypoxia interface on cancer biology using a spheroid-on-chip perfusion system**

Pyne, E., Reardon, M., Christensen, M., Mateos, P. R., Taylor, S., Iles, A., Choudhury, A., Pamme, N. & Pires, I. M., 22 Aug 2024, bioRxiv.

**Evaluation of DIR strategies for OAR dose accumulation in MR-guided pancreas SABR**

Daly, M., Osorio, E. V., Choudhury, A., McWilliam, A., Radhakrishna, G. & Eccles, C. L., Aug 2024, In: *Radiotherapy and Oncology*. 197, Supplement, p. S336-S337 3 p., 409.

**Digital spatial profiling of the microenvironment of muscle invasive bladder cancer**

Eyers, M., Irlam, J., Marshall, G., Smith, V., Baker, A., Frost, L., Hoskin, P., Choudhury, A. & West, C., 18 Jun 2024, In: *Communications Biology*. 7, 1, 737 .

**Adding 6 months ADT to post-operative radiotherapy for prostate cancer: results from none-vs-short comparison of RADICALS-HD randomised trial**

RADICALS investigators, Parker, C., Clarke, N., Choudhury, A., Hoskin, P. & al, E., 1 Jun 2024, In: *The Lancet*. 403, p. 2405-2415

**Impact of a contouring atlas on radiographer inter-observer variation in male pelvis radiotherapy**

Clough, A., Chuter, R., Hales, R. B., Parker, J., McMahon, J., Whiteside, L., McHugh, L., Davies, L., Sanders, J., Benson, R., Nelder, C., McDaid, L., Choudhury, A. & Eccles, C. L., Jun 2024, In: *Journal of Medical Imaging and Radiation Sciences*. 55, 2, p. 281-288 8 p.

**Clinical Biomarkers of Tumour Radiosensitivity and Predicting Benefit from Radiotherapy: A Systematic Review**

Bleaney, C. W., Abdelaal, H., Reardon, M., Anandadas, C., Hoskin, P., Choudhury, A. & Forker, L., 20 May 2024, In: *Cancers*. 16, 10, 20 p., 1942.

**2478: Developing geometrically robust diffusion-weighted MRI for head and neck imaging on an MR-Linac**

McHugh, D. J., Greenwood-Wilson, A., McDaid, L., Eccles, C., Thomson, D., Buckley, D. L., Choudhury, A., van Herk, M. & Dubec, M. J., May 2024, In: *Radiotherapy and Oncology*. 194, S1, p. S3923-S3926 4 p.

**Analysis of patient specific factors impacting free-breathing motion on magnetic resonance imaging (MRI) for radiotherapy motion management.**

Egan, H., Choudhury, A., Eccles, C. & Daly, M., May 2024.

**Motion management strategy and interobserver variation in abdominal OAR delineation using MRI**

Daly, M., McDaid, L., Anandadas, C., Brocklehurst, A., Choudhury, A., McWilliam, A., Radhakrishna, G. & Eccles, C. L., May 2024, In: Radiotherapy and Oncology. 194, Supplement 1, p. S4316-S4319 5 p., 2204.

**Patient factors impacting free-breathing motion magnitude and variability on MRI for radiotherapy**

Egan, H. F., Choudhury, A., Radhakrishna, G., Eccles, C. L. & Daly, M., May 2024, In: Radiotherapy and Oncology. 194, Supplement 1, p. S5501-S5504 5 p., 968.

**Prostate SABR radiotherapy on the MR Linac: how can we improve service efficiency?**

McDaid, L., Nelder, C., Tallon, J., Dobby, B., Whiteside, L., Berresford, J., Swinton, M., Choudhury, A. & Eccles, C. L., May 2024, In: Radiotherapy and Oncology. 194, p. S5896-S5898 3 p., 1211.

**Beyond Surgery: Bladder Preservation and the role of Systemic Treatment in Localised Muscle Invasive Bladder Cancer**

Swinton, M., Devi, A., Song, Y. P., Hoskin, P. & Choudhury, A., 4 Apr 2024, In: World Journal of Urology.

**Tale of two zones: investigating the clinical outcomes and research gaps in peripheral and transition zone prostate cancer through a systematic review and meta-analysis**

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**Geometric distortion caused by metallic femoral head prosthesis in prostate cancer imaging on an MR linac: in-vivo measurements of spatial deformation**

McDaid, L., Clough, A., Benson, K., Nelder, C., McMahon, J., Jackson, S., Aznar, M., Choudhury, A., van Herk, M. & Eccles, C., 1 Apr 2024, In: British Journal of Radiology. 97, 1156, p. 757-762 6 p.

**A hypoxia biomarker does not predict benefit from giving chemotherapy with radiotherapy in the BC2001 randomised controlled trial**

Smith, T., West, C., Joseph, N., Lane, B., Jones, J.I., More, E., Mistry, H., Reeves, K., Song, Y. P., Reardon, M., Hoskin, P. J., Hussain, S. A., Denley, H., Hall, E., Porta, N., Huddart, R., James, N. D. & Choudhury, A., 1 Mar 2024, In: EBioMedicine. 101, 105032.

**Feasibility of abdominal fat quantification on MRI and impact on effectiveness of abdominal compression for radiotherapy motion management**

Daly, M., McDaid, L., Nelder, C., Chuter, R., Choudhury, A., McWilliam, A., Radhakrishna, G. & Eccles, C., 1 Mar 2024, In: Technical Innovations & Patient Support in Radiation Oncology. 29, 100232.

**Comparison of standard dose and reduced dose treatment of metastatic prostate cancer with enzalutamide, apalutamide or darolutamide: a rapid review**

Bromley, H. L., Varughese, M., Gilbert, D., Hoskin, P., Tannock, I., Reeves, K. & Choudhury, A., 29 Feb 2024, In: BMJ Oncology.

**Improved Disease Free Survival With Adjuvant Chemotherapy After Nephroureterectomy for Upper Tract Urothelial Cancer. Final Results of the POUT Trial**

Birtle, A., Jones, R., Chesterman, J., Lewis, R., Biscoombe, K., Johnson, M., Blacker, A., Bryan, R., Catto, J. W., Choudhury, A., Das, P., Jagdev, S., Powles, T., Wagstaff, J., Cheung, K. C., Cafferty, F. & Hall, E., 13 Feb 2024, In: Journal of Clinical Oncology.

**Tumour response to hypoxia: understanding the hypoxic tumour microenvironment to improve treatment outcome in solid tumours**

German Cancer Consortium (DKTK), Bigos, K. J. A., Quiles, C. G., Lunj, S., Smith, D., Krause, M., Troost, E. G. C., West, C., Hoskin, P. & Choudhury, A., 30 Jan 2024, In: Oncology Reviews. 14, 1331355.

### **Radiotherapy in Metastatic Bladder Cancer**

Ashley, S., Choudhury, A., Hoskin, P., Song, Y. & Maitre, P., 20 Jan 2024, In: World Journal of Urology. 42, 47

### **Bladder Preservation and Immunotherapy – Rebel Without A Cause?**

Maitre, P. & Choudhury, A., 1 Jan 2024, In: International Journal of Radiation: Oncology - Biology - Physics.

### **Implementation of Oxygen Enhanced Magnetic Resonance Imaging (OE-MRI) and a Pilot Genomic Study of Hypoxia in Bladder Cancer Xenografts**

Shabbir, R., Telfer, B. A., Dickie, B., Reardon, M., Babur, M., Williams, K., West, C. M. L., Choudhury, A. & Smith, T. A. D., 2024, In: Cancer genomics & proteomics. 21, 4, p. 380-387 8 p.

### **The Future of UK Cancer – time for a radical and sustainable National Cancer Plan**

Aggarwal, A., Choudhury, A., Fearnhead, N., Kearns, P., Kirby, A., Lawler, M., Quinlan, S., Palmieri, C., Roques, T., Simcock, R., Walter, F. M., Price, P. & Sullivan, R., 15 Nov 2023, (Accepted/In press) In: The Lancet Oncology.

### **MRI-guided Pelvic Radiation Therapy: A Primer for Radiologists**

Zhong, J., Kobus, M., Maitre, P., Datta, A., Eccles, C., Dubec, M., McHugh, D., Buckley, D., Scarsbrook, A., Hoskin, P., Henry, A. & Choudhury, A., 1 Nov 2023, In: Radiographics. 43, 11, 15 p., e230052.

### **Single Institution Preliminary Evaluation of a National Study for the Development of Daily Online Magnetic Resonance Image Guided Radiotherapy**

Eccles, C., Dubec, M., Cobben, D., Van Herk, M., Mcdaid, L., Nelder, C., Whiteside, L., Davies, L., McHugh, L., Bridge, J., Fendallamaro, P., Chuter, R., Hoskin, P., Huddart, R. & Choudhury, A., 1 Oct 2023, In: International Journal of Radiation Oncology Biology Physics. 117, 2, p. E663-E663 1 p.

### **Bladder-Sparing Treatment With Radical Dose Radiotherapy Is an Effective Alternative to Radical Cystectomy in Patients With Clinically Node-Positive Nonmetastatic Bladder Cancer**

Swinton, M., Mariam, N. B. G., Tan, J. L., Murphy, K., Elumalai, T., Soni, M., Ferrera, A., Richardson, C., Walshaw, R., Mistry, H., Ramani, V., Song, Y., Birtle, A., Henry, A., Chan, J., Hoskin, P. & Choudhury, A., 20 Sept 2023, In: Journal of Clinical Oncology. 41, 27, p. 4406-4415 10 p.

### **Assessing Interaction between Toxicity Outcomes and Dose Surface Maps at the Bladder and Rectum in Prostate Cancer Patients - 2**

Puri, T., Van Herk, M., Vasquez Osorio, E., Shortall, J., Morris, A., Kerns, S., Azria, D., Farcy-Jacquet, M. P., Chang-Claude, J., Dunning, A. M., Lambrecht, M., Avuzzi, B., de Ruyscher, D. K. M., Sperk, E., Webb, A., Seibold, P., Talbot, C., Vega, A., Veldeman, L. & Rancati, T. & 5 others, Rosenstein, B., West, C., Choudhury, A., Hoskin, P. & Mcwilliam, A., 13 Sept 2023, (Accepted/In press).

### **Utility of a simplified [ 18 F] sodium fluoride PET imaging method to quantify bone metabolic flux for a wide range of clinical applications**

Puri, T., Frost, M. L., Moore, A. E. B., Choudhury, A., Vinjamuri, S., Mahajan, A., Fynbo, C., Vrist, M., Theil, J., Kairemo, K., Wong, J., Zaidi, H., Revheim, M.-E., Werner, T. J., Alavi, A. N., Cook, G. & Blake, G., 13 Sept 2023, In: Frontiers in Endocrinology. 14, 1236881.

### **Impact of prostate radiotherapy on survival outcomes in clinically node-positive prostate cancer: A multicentre retrospective analysis**

Elumalai, T., Maitre, P., Portner, R., Billy Graham Mariam, N., Young, T., Hughes, S., Wickramasinghe, K., Bhana, R., Sabar, M., Thippu Jayaprakash, K., Mistry, H., Hoskin, P. & Choudhury, A., 1 Sept 2023, In: Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology. 186, 109746.

### **Technical development and validation of a clinically applicable microenvironment classifier as a biomarker of tumour hypoxia for soft tissue sarcoma**

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**A combined single high-dose rate brachytherapy boost with hypofractionated external beam radiotherapy results in a high rate of biochemical disease free survival in localised intermediate and high risk prostate cancer patients**

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**Adjuvant Chemotherapy Is More Suitable Than Neoadjuvant Chemotherapy for Muscle Invasive Bladder Cancer Patients Treated With Radical Chemoradiotherapy**

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**Immunotherapy with radiotherapy in urological malignancies**

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### **MRI-guided prostate adaptive radiotherapy - A systematic review**

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**BLADDER PRESERVATION MULTIMODALITY THERAPY AS AN ALTERNATIVE TO RADICAL CYSTECTOMY FOR TREATMENT OF MUSCLE INVASIVE BLADDER CANCER: LETTERS**

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### **Metastatic Bladder Cancer: A Review of Current Management**

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### **The Christie at Oldham: the First Networked Satellite Radiotherapy Centre in the UK**

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### **MRE11 expression is predictive of cause-specific survival following radical radiotherapy for muscle-invasive bladder cancer**

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### **Polymorphisms in DNA repair genes, smoking, and bladder cancer risk: findings from the international consortium of bladder cancer**

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**Targeting homologous recombination using imatinib results in enhanced tumor cell chemosensitivity and radiosensitivity**  
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**Analysis of variants in DNA damage signalling genes in bladder cancer**

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**Similar Treatment Outcomes for Radical Cystectomy and Radical Radiotherapy in Invasive Bladder Cancer Treated at a United Kingdom Specialist Treatment Center**

Kotwal, S., Choudhury, A., Johnston, C., Paul, A. B., Whelan, P. & Kiltie, A. E., 1 Feb 2008, In: International Journal of Radiation: Oncology - Biology - Physics. 70, 2, p. 456-463

**Radiation and new molecular agents part I: Targeting ATM-ATR checkpoints, DNA repair, and the proteasome**

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**Effective treatment of anal cancer in the elderly with low-dose chemoradiotherapy**

Charnley, N., Choudhury, A., Chesser, P., Cooper, R. A. & Sebag-Montefiore, D., 11 Apr 2005, In: British Journal of Cancer. 92, 7, p. 1221-1225 5 p.

**Screening for metastases after surgical treatment for breast cancer: an audit of practice in three district general hospitals**

Choudhury, A., Adlard, J., Kumar, S. & Dodwell, D., Dec 2004, In: Clinical oncology (Royal College of Radiologists (Great Britain)). 16, 8, p. 584-5 2 p.

## Activities

**PROSCA & BLADDR 2019**

Choudhury, A. (Chair)  
23 Oct 2019 → 26 Oct 2019

**American Society for Radiation Oncology (ASTRO) 2019 Annual Meeting**

Choudhury, A. (Member of programme committee)  
15 Sept 2019 → 18 Sept 2019

**Prostate Cancer Biomarkers and Genomics – Are They Relevant Yet?**

Choudhury, A. (Speaker)  
10 Aug 2019

**MRI Guided Radiotherapy for Bladder Cancer/Radiogenomics**

Choudhury, A. (Speaker)  
9 Aug 2019

**Prognostic and Predictive Factors for Chemort in MIBC – Biomarkers, Genomics and More**

Choudhury, A. (Speaker)  
9 Aug 2019

**The 4th Christie Advanced Radiotherapy Summer School**

Choudhury, A. (Chair)  
1 Jul 2019 → 4 Jul 2019

**Urothelial and Variant Cases: Radiation Oncology Perspective**

Choudhury, A. (Speaker)  
2 Jun 2019

**Radiosensitization strategies for the treatment of bladder cancer**

Choudhury, A. (Speaker)  
29 Apr 2019

**Gender Differences in Response to Radiotherapy**

Choudhury, A. (Speaker)  
22 Mar 2019

**Metastatic Prostate Cancer: should oligometastatic disease be treated differently?**

Choudhury, A. (Speaker)  
1 Mar 2019 → 3 Mar 2019

**MR-guided Radiotherapy: A Clinician's Perspective**

Choudhury, A. (Speaker)  
1 Mar 2019 → 3 Mar 2019

**Multimodality Treatment in Challenging Cases of Urothelial Carcinoma**

Choudhury, A. (Speaker)  
4 Feb 2019

**Immunotherapy: Evolving paradigms in GU cancers**

Choudhury, A. (Discussant)  
8 Nov 2018

**Advances in systemic therapies in Castration Resistant Prostate Cancer**

Choudhury, A. (Invited speaker)  
13 Oct 2018

**Precision radiotherapy with the MR Linac**

Choudhury, A. (Invited speaker)  
12 Oct 2018

**Personalised Radiotherapy for Bladder**

Choudhury, A. (Invited speaker)  
21 Sept 2018

**Chair and introduction to Genomic stratification of prostate cancer**

Choudhury, A. (Speaker)  
15 Sept 2018

**Bladder sparing in Muscle Invasive Bladder Cancer (MIBC): Selection and optimal treatment**

Choudhury, A. (Invited speaker)  
9 Jun 2018

**Developing a career in academic clinical oncology**

Choudhury, A. (Speaker)  
12 May 2018

**Standard of care in the treatment of bladder cancer**

Choudhury, A. (Invited speaker)  
21 Apr 2018

**Hypoxia related mRNA biomarker to predict biochemical failure and metastasis for prostate cancer**

Choudhury, A. (Invited speaker)  
8 Feb 2018

**Perioperative chemotherapy for upper tract urothelial cancers**

Choudhury, A. (Discussant)  
18 Nov 2017

**Best of Radiotherapy**

Choudhury, A. (Speaker)  
17 Nov 2017

**A Hypoxia Gene Expression Signature for Prostate Cancer Patients**

Choudhury, A. (Speaker)  
Sept 2017 → ...

**Molecular subtyping of muscle invasive bladder cancer predicted benefit of hypoxia-targeting therapy**

Choudhury, A. (Speaker)  
Sept 2017 → ...

**Post-treatment lymphocytopenia, integral heart dose and overall survival in lung cancer patients treated with radical radiotherapy**

Choudhury, A. (Speaker)  
Sept 2017 → ...

**Outcomes in Elderly bladder cancer outcomes with bladder preservation**

Choudhury, A. (Discussant)  
5 May 2017 → 9 May 2017

**The Future of Bladder Radiotherapy**

Choudhury, A. (Speaker)  
28 Oct 2016

**Radiotherapy for bladder cancer**

Choudhury, A. (Discussant)  
7 Jan 2016 → 9 Jan 2016

**Prizes**

**Cancer Research-UK/Royal College of Radiologists Clinical Training Fellowship.**

Choudhury, A. (Recipient), Jul 2005

**Fellowship for the 10th ECCO-AACR-ASCO Workshop on Methods in Clinical Cancer Research SCO/ECCO, Flims, Switzerland**

Choudhury, A. (Recipient), Mar 2007

**Outstanding Contribution, Greater Manchester Clinical Research Awards**

Choudhury, A. (Recipient), Nov 2017

**RCR Research Fellowship, amalgamated in to the CR-UK Clinical Training Fellowship award, July 2005**

Choudhury, A. (Recipient), Feb 2005

**Research Fellowship, Department of Radiation Oncology, Princess Margaret Hospital, Toronto, Ontario, Canada**

Choudhury, A. (Recipient), Sept 2004

## **Student in Training Award for Radiation Research, Denver, October 2005**

Choudhury, A. (Recipient), Jun 2005

## **Awards**

## **Projects**

### **ATOM**

Choudhury, A. (PI)

1/08/17 → 31/01/18

### **A Tool for Predicting an Individual Prostate Cancer Patient's Risk of Metastasis and Need for Lymph Node Irradiation.**

Choudhury, A. (PI), Kirkby, N. (Col), McWilliam, A. (Col), Van Herk, M. (Col) & West, C. (Col)

1/03/17 → 28/06/20

### **FASTMAN Centre, Movember Prostate Cancer Centre of Excellence**

Marais, R. (PI), Brady, G. (Col), Choudhury, A. (Col), Clarke, N. (Col), Dive, C. (Col), Illidge, T. (Col), Miller, C. (Col) & West, C. (Col)

1/07/14 → 30/06/17

### **MANchester RESearch Transforming Radiation Oncology (MAESTRO) Programme as Part of CRUK RadNet.**

Bristow, R. (PI), Burnet, N. (Col), Choudhury, A. (Col), Dive, C. (Col), Faivre-Finn, C. (Col), Hagan, I. (Col), Hoskin, P. (Col), Hussell, T. (Col), Illidge, T. (Col), Kirkby, K. (Col), Kostarelos, K. (Col), O'Connor, J. (Col), Peek, N. (Col), Rattray, M. (Col), Taylor, S. (Col), Thornton, D. (Col), Van Herk, M. (Col), West, C. (Col), Whetton, A. (Col), Williams, K. (Col) & Yorke, J. (Col)

1/11/19 → 31/10/24

### **Measuring tumour radioresistance to improve radiotherapy outcomes (PROJECT)**

Choudhury, A. (PI), Bristow, R. (Col), Forker, L. (Col), Hoskin, P. (Col), Nagarajan, S. (Col), Wedge, D. (Col) & West, C. (Col)

1/10/22 → 30/09/26

### **NIHR Biomedical Research Centre: Cancer Advanced Radiotherapy Theme.**

West, C. (PI), Bristow, R. (Col), Bruce, I. (Col), Burnet, N. (Col), Choudhury, A. (Col), Evans, D. (Col), Faivre-Finn, C. (Col), Hoskin, P. (Col), Illidge, T. (Col), Kirkby, K. (Col), Kirkby, N. (Col), O'Connor, J. (Col) & Van Herk, M. (Col)

1/04/17 → 31/03/19

### **NIHR Manchester Biomedical Research Centre**

Bruce, I. (PI), Lord, G. (Col), Lennon, R. (Col), Black, G. (Col), Wedge, D. (Col), Morris, A. (Col), Hussell, T. (Col), Sharrocks, A. (Col), Stivaros, S. (Col), Buch, M. (Col), Gough, J. (Col), Kostarelos, K. (Col), Thistlethwaite, F. (Col), Kadler, K. (Col), Barton, A. (Col), Hyrich, K. (Col), Mcbeth, J. (Col), O'Neill, T. (Col), Vestbo, J. (Col), Simpson, A. (Col), Singh, S. (Col), Smith, J. (Col), Felton, T. (Col), Murray, C. (Col), Griffiths, C. (Col), Cullum, N. (Col), Rhodes, L. (Col), Warren, R. (Col), Paus, R. (Col), Dumville, J. (Col), Viros Usandizaga, A. (Col), Keavney, B. (Col), Tomaszewski, M. (Col), Allan, S. (Col), Body, R. (Col), Cartwright, E. (Col), Heagerty, A. (Col), Kalra, P. (Col), Miller, C. (Col), Rutter, M. (Col), Smith, C. (Col), Trafford, A. (Col), Evans, D. (Col), Davidson, E. (Col), Crosbie, P. (Col), Harvie, M. (Col), Howell, S. (Col), Renehan, A. (Col), Dive, C. (Col), Blackhall, F. (Col), Landers, D. (Col), Krebs, M. (Col), Cook, N. (Col), Clarke, R. (Col), Taylor, S. (Col), Jorgensen, C. (Col), Lorigan, P. (Col), Jayson, G. (Col), Valle, J. (Col), McCabe, M. (Col), Armstrong, A. (Col), Freitas, A. (Col), Illidge, T. (Col), Choudhury, A. (Col), Hoskin, P. (Col), West, C. (Col), Van Herk, M. (Col), Faivre-Finn, C. (Col), Bristow, R. (Col), Kirkby, K. (Col), Birtle, A. (Col), Mackay, R. (Col), Radford, J. (Col), Linton, K. (Col), Higham, C. (Col), Munro, K. (Col), Plack, C. (Col), Arden Armitage, C. (Col), Bruce, I. (Col), Moore, D. (Col), Saunders, G. (Col), Stone, M. (Col), Haddock, G. (Col), Lewis, S. (Col), Elliott, R. (Col), Green, J. (Col), Lovell, K. (Col), Morrison, A. (Col), Shaw, J. (Col), Bucci, S. (Col), Ainsworth, J. (Col), Webb, R. (Col), Newman, W. (Col), Banka, S. (Col), Clayton-Smith, J. (Col), Payne, K. (Col), Moldovan, R. (Col), Wynn, R. (Col) & Jones, S. (Col)

1/12/22 → 30/11/27

### **Noncoding RNA Derived Classifiers as Biomarkers of Patient Response to Therapy.**

Miller, C. (PI), Baena Chaparro, E. (Col), Choudhury, A. (Col), Dive, C. (Col) & Marais, R. (Col)

18/10/16 → 17/10/20

**Personalising Treatment of Muscle-invasive Bladder Cancer Through Relating Genomics and Radiomics.**

Choudhury, A. (PI)  
1/05/18 → 31/01/20

**Translating Companion Hypoxia Response-Predictive Biomarkers into Clinical Practice in Prostate Cancer.**

Choudhury, A. (PI) & West, C. (Col)  
1/02/16 → 31/07/20

**Validation of a Biomarker for Selecting Radiotherapy Combinations for Muscle Invasive Bladder Cancer Patients.**

West, C. (PI), Choudhury, A. (Col), Clarke, N. (Col) & Yang, L. (Col)  
1/05/18 → 30/04/21

**Validation of a Novel Hypoxic Gene Signature in Pimonidazole Labelled Prostate Tissue and Correlation with Genomic Instability.**

Thiruthaneeswaran, N. (PI), Choudhury, A. (Col) & West, C. (Col)  
1/04/18 → 31/03/19

## **Supervision information**

McPartlin, Andrew. MD. Use of magnetic resonance imaging in radical prostate radiotherapy. 2016.

Dania Satiti, Amanda. MRes. Outcome comparison of radical cystectomy and bladder preservation approaches in non-metastatic muscle invasive bladder cancer. 2019.

Corden, Michael. APEP. The role of sarcopenia in determining prognosis of bladder cancer patients with radiotherapy. 2019.

Forker, Laura. PhD. Development of a hypoxia biomarker for soft tissue sarcoma. 2020.

Tharmalingam, Hannah. MD. Optimizing the radiotherapy management of high-risk prostate cancer patients. 2020.

Song, Yee Pei. MD. MR imaging in bladder cancer. 2020.

Thiruthaneeswaran, Niluja. PhD. Translating companion hypoxia response-predictive biomarkers into clinical practice in prostate cancer. 2020.

Cree, Anthea. PhD. MR guided external beam radiotherapy for cervical cancer. 2020.

Walshaw, Richard. PhD. Investigating immunomodulation to improve outcome in bladder cancer. 2020.

Guerrero Quiles, Conrado. PhD. Proteomic profiling in cancer patients undergoing radiotherapy. Expected 2021.

Rodrigues Pereira, Ronnie. PhD. Machine learning approaches to improve the treatment of prostate cancer. Expected 2021.

Shabbir, Rekaya. PhD. Expected 2021.

Datta, Anubhav. PhD. Evaluation of biomarkers for clinical hypoxia modification in cervical cancer. Expected 2022.

Hussain, Abdulaziz. PhD. Developing a pipeline for reliable, agile production of radiopharmaceuticals. Expected 2023.

Daly, Mairead. PhD. Evaluation of motion management strategies across multiple radiotherapy platforms. Expected 2024.