

Catriona Douglas

Consultant ENT/Head and Neck Surgeon, Glasgow Royal Infirmary and Queen Elizabeth University Hospital, NHS Greater Glasgow and Clyde.

Chief Scientist Office NRS Research Fellow – 1 PA session funded.

MRC CARP award – 2 PA sessions funded.

EMPLOYMENT HISTORY

2002-2003	Junior House Officer, NHS Greater Glasgow and Clyde
2003-2005	West of Scotland Basic Surgical Training Scheme.
2005-2006	Senior House Officer, ENT, Glasgow Royal Infirmary and Yorkhill Hospital, NHS Greater Glasgow and Clyde
2006-2008	Research Fellow, Christie Hospital, Manchester.
2009-2018	Specialty Trainee ENT/Head and Neck Surgery, West of Scotland training scheme at 60%
2018-2019	Fellowship Head and Neck Surgical Oncology – University of Toronto – 1 year.
2019-2020	Specialty Trainee ENT/Head and Neck Surgery, West of Scotland training scheme at 60%
2020-Now	Consultant, NHS Greater Glasgow and Clyde.

QUALIFICATIONS

June 2000	B.Sc (Med Sci) (Hons)	Glasgow University
	Anatomy	
June 2002	MBChB	Glasgow University
July 2005	MRCS	Royal College of Physicians and Surgeons Glasgow
April 2011	MD in head and neck oncology.	University of Manchester
Nov 2017	FRCS (ORL-HNS)	Royal College Surgeons Edinburgh
June 2019.	Fellowship Head and Neck Surgical Oncology	University of Toronto

RECENT GRANT FUNDING

1. Assessing the role of biofilm special structure and mechanics in pathogenic recurrent tonsillitis of paediatric patients. £4950. Glasgow Children's Hospital Charity Dec 2019
2. "Assessing the role of biofilm spatial structure and mechanics in pathogenic recurrent tonsillitis using mesoscopy". £69,856 PhD Funding. Glasgow Children's Hospital Charity. Dec 2020
3. New endoscopic imaging technologies for instantaneous assessment of vasodilation as an indicator of bacterial infection in tonsillitis. £107,000 PhD Funding. Medical Research Scotland. March 2021
4. Understanding the role of biofilms in otitis media with effusion using fluorescence mesoscopy. £9500 Pump Priming. RNID. June 2021
5. Understanding the role of biofilms in otitis media with effusion using fluorescence mesoscopy. £14,136 Pump Priming. Mason Medical Trust.
6. Scottish Otolaryngology Society – research grant - £3000. Research project looking at the throat morbidity of patients being admitted to hospital with tonsillitis. Nov 2017
7. British Association of Head and Neck Oncologists – research grant for £2500 for updating mortality data on the Scottish Audit of Head and Neck Cancer. May 2015
8. Bio-ART: Multiscale understanding of BIOfilms and microBIomes in Acute Recurrent Tonsillitis. £130,000. NIHR CARP award. July 2021
9. Remote Monitoring in Head and Neck Cancer. PhD funding. £155,465, Chief Scientist Office. Jan 2023
10. Resolving the role of microbial pathogens in the failure of voice prosthetic devices. PhD funding. £150,000. ATOS medical. Jan 2023
11. Label-free intraoperative histological imaging. PhD funding x 2. £165,000x2. NPL-EPSRC industrial-CASE. Jan 2023

CURRENT MEMBERSHIP and APPOINTMENTS

2021-Present ENT UK West of Scotland Representative.

2020-Present Academic Lead, West of Scotland Otolaryngology training committee

2023-Present NCRI Head and Neck Working Group – Hypopharyngeal cancer.

2019-Present Frontiers in Oncology, review editor in Head and Neck Cancer

2020-Present Course Director, BSc in ENT/Head and Neck Surgery, University of Glasgow

2022-Present Audit Lead for Head and Neck, Scottish ENT Society

RECENT RELEVANT PUBLICATIONS

Donachie, M., Horackiewicz, J., Philp, N., Slim, M.A.M., Hurley, R. and **Douglas, C.** (2025), Oropharyngeal Squamous Cell Carcinoma in the West of Scotland: A Retrospective Analysis of 1001 Patients From 2012 to 2020. *Clinical Otolaryngology*. Jan 2025. <https://doi.org/10.1111/coa.14282>

Hurley, R., Paterson, C., Conway, D.I., Inman, G.J. and **Douglas, C.M.** (2025), Laryngeal Cancer in the West of Scotland 2014–2020: Trends and Survival in a Cohort of 867 Patients. *The Laryngoscope*. Jan 2025. <https://doi.org/10.1002/lary.31992>

Clements, K., McMahon, A.D., Bhatti, L., Smith, C., Paterson, C., **Douglas, C.M.** and Conway, D.I. (2025), Incidence Trends in Head and Neck Cancer Subsites: A National Population-Based Study (2001–2020). *Clinical Otolaryngology*. Jan 2025. <https://doi.org/10.1111/coa.14271>

McCann C, Hurley R, McGovern J, Knight K, Rattray NJW, **Douglas CM.** Frailty and the Survival Outcomes of Patients With Laryngeal Squamous Cell Cancer. *Head Neck*. 2024 Nov 22. doi: 10.1002/hed.27951. Epub ahead of print. PMID: 39578701.

Smith, C.D.L., McMahon, A.D., Purkayastha, M., Creaney, G., Clements, K., Inman G, Bhatti L, **Douglas, C.M.** Paterson C, Conway D. Head and neck cancer incidence is rising but the sociodemographic profile is unchanging: a population epidemiological study (2001–2020). *BJC Rep* **2**, 71 (2024). <https://doi.org/10.1038/s44276-024-00089-z>

Joseph Cannon, Hitesh Tailor, **Catriona M Douglas.** Carbon footprint of tonsillectomy. June 2024. *The Surgeon* 22(6)

Philp N, Joshyulla-Prasanna A, Maqsood R, Van der Meer R, **Douglas C M**, Wood M, Rymaszewski L Early provision of clinical information with an 'opt in' approach improves patient experience in tonsillectomy referrals. June 2024. *BMJ Open Quality* 13(2):e002772

Impact of the COVID-19 pandemic on stage and incidence of head and neck cancer: A rapid review and meta-analysis. Kelten Clements, Alekh Thapa, Anna Cowell, David Conway, Catriona M Douglas, Claire Paterson. *Clinical Otolaryngology*. First published: 21 March 2024

Denton, Oliver, Yifei Wan, Laura Beattie, Téa Jack, Preston McGoldrick, Holly McAllister, Cara Mullan, **Catriona M. Douglas**, and Wenmiao Shu. 2024. "Understanding the Role of Biofilms in Acute Recurrent Tonsillitis through 3D Bioprinting of a Novel Gelatin-PEGDA Hydrogel" *Bioengineering* 11, no. 3: 202.

Meg Claperton, Catalina Florea, Tash Kunanandam, **Catriona Douglas**, Gail McConnell. Multimodal optical mesoscopy reveals the quantity and spatial distribution of gram-positive biofilms in ex vivo tonsils. (2024). Multimodal opticalmesoscopy reveals the quantity and spatialdistribution of Gram-positive biofilms in ex vivotonsils. *Journal of Microscopy*, 1–10.

Axel Sahovaler, Michael Valic, Jason Townson, Mark Zheng, Sharon Tzelnick, Harley Chan, Donovan Eu, Abdullah El-Sayes, Lili Ding, Juan Chen, **Catriona Douglas**, Robert Weersink, Nidal Muhanna, Gang Zheng, and Jonathan C Irish. Nanoparticle mediated photodynamic therapy as a

method to ablate oral cavity squamous cell carcinoma in preclinical models. *Cancer Research Communications* (2024) 4 (3): 796–810.

Christy M Moen, Kiara Paramjothy, Xin Lou, Andrew Williamson, Holli Coleman, Andrew Smith, **Catriona M Douglas**. A systematic review of the role of penicillin vs penicillin plus metronidazole in the management of peritonsillar abscess. *J Laryngol Otol*. 2023 Sep;137(9):992-996

K Hulse, L Li, A Lowit, R Maguire, **C Douglas**. Digital health in Head and Neck Cancer: a systematic review. *J Laryngol Otol*. 2023 Dec;137(12):1312-1325.

Woodley et al. Prognostic scores in laryngeal cancer. *Eur Arch Otorhinolaryngol*. 2022 Jul;279(7):3705-3715 Jan 2022.

Lim et al, A retrospective study comparing organ preserving therapy with surgical intervention in advanced laryngeal cancer. *Clin Otolaryngol*. 2022 Mar;47(2):380-387

Hurley et al. What is the natural history of patients waiting for tonsillectomy during a global pandemic?: A questionnaire study. *Clin Otolaryngol*. 2022 Mar;47(2):364-368.

Woodley et al. Does recreational drug use influence survival and morbidity associated with laryngeal cancer? *Addict Health* 2022; 14(2): 115-26.

Douglas et al. Patterns of urgent hoarseness referrals to ENT—When should we be suspicious of cancer? *Clin Otolaryngol*. 2021; 46: 562– 569.

Chan HHL et al. An integrated augmented reality surgical navigation platform using multi-modality imaging for guidance. *PLoS ONE* 16(4): e0250558. Published: April 30, 2021.

Douglas et al. COVID-19: smoke testing of surgical mask and respirators, *Occupational Medicine* 70(8):556-563

Muhanna et al. Assessment of a liposomal CT/optical contrast agent for image-guided head and neck surgery. *Nanomedicine*. 2021 Feb;32:102327

Leong et al. Sociodemographics and Survival Characteristics of Human Papilloma Virus-related Oropharyngeal Cancer in Glasgow, Scotland – A retrospective analysis. *Clin Otolaryngol*. 2021 Jul;46(4):854-860

Douglas et al. Long-term survival of head and neck squamous cell carcinoma after bone marrow transplant. *Head and Neck*. Nov 2020 42 (11); 3389-3395

Mentel et al. External validation of OroGrams as a predictive model for Overall and Progression Free Survival in Scottish Patients with Oropharyngeal Squamous Cell Carcinoma – A retrospective cohort study. *Br J Oral Maxillofac Surg*. 2021 Apr;59(3):368-374

Hueniken et al. Measuring financial toxicity incurred after treatment of head and neck cancer: Development and validation of the Financial Index of Toxicity questionnaire. *Cancer*. 2020 Sep 1;126(17):4042-4050

Nidal Muhanna, Harley Chan, Jason Townson, Cheng S Jin, Lili Ding, Michael Vali, **Catriona M Douglas**, Christina M. MacLaughlin, Juan Chen, Gang Zheng, Jonathan C Irish, MD. Nanoparticle Mediated Photodynamic Therapy Enables Tumor Specific Ablation in Preclinical Models of Differentiated Thyroid Cancer. *Endocr Relat Cancer*. 2020 Feb;27(2):41-53