Short Curriculum Vitae: Dr Rosemary Townsend

Current position: Senior Clinical Research Fellow and Honorary Consultant Obstetrician

I am clinically qualified and active. I am a clinical academic consultant obstetrician at the University of Edinburgh with clinical practice at the Royal Infirmary of Edinburgh within NHS Lothian. My research interests are clinical risk prediction and digital innovation, stillbirth and fetal wellbeing assessment and global women's health.

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H index: 14

Degrees and qualifications

MBChB University of Edinburgh	2004-2009
Member of the Royal College of Obstetricians and Gynaecologists (MRCOG)	2015
Postgraduate Certificate Medical Education, UCL	2020
MD, St George's University of London	2017-2021

Employment

Feb 2021- Oct 2022	SCREDS Clinical Lecturer & Senior Registrar Obstetrics and Gynaecology, NHS Lothian
Oct 2019 – Feb 2021	Specialist Registrar Obstetrics and Gynaecology, London Deanery (South)
April 2017 – Oct 2019	Clinical Research Fellow (Obstetrics), Vascular Biology Research Centre, Molecular and Clinical Sciences Research Institute, St George's University of London
Oct 2016 – April 2017	Specialist Registrar Obstetrics and Gynaecology, London Deanery (South)
Oct 2015 – Oct 2016	Lecturer in Anatomy and Physiology, Mountains of the Moon University, Fort Portal, Uganda and Obstetrician with Knowledge 4 Change
Oct 2011- Oct 2015	Specialist Trainee Obstetrics and Gynaecology, London Deanery (South)
Aug 2009- Aug 2011	Junior clinical posts in NHS Greater Glasgow and Clyde

Research grants

Currently held	
CSO EARLY POSTDOCTORAL FELLOWSHIP: Using digital phenotyping to explore the association between environment and pregnancy health: a novel Scottish Digital Birth Cohort	£381,941
ISSF3/WELLCOME: Developing novel digital biomarkers: towards a Scottish Digital Biobank for investigating pregnancy health. 2022	£28,992
WELLCOME LEAP IN UTERO: (Co-I, CI Prof R Reynolds) iTest: novel retinal biomarkers in pregnancy for early prediction of stillbirth	$651, 025

Other activities

2017-2022	Chair of RCOG Global Health Trainees Committee
2021-2023	Early Career Researcher Representative for CMVM, Research Integrity and Ethics Review Group
2021-current	Member of Edinburgh Medical School Research Ethics Committee
2022-current	Clinical Academic Representative, Research Staff Committee, College of Medicine and Veterinary Medicine
2022	University of Edinburgh Research Leaders Program
2023-current	UofE CMVM Clinical Academic Training Committee, ECR rep

Items of esteem

Prizes, awards and honours

Sept 2018	Mike Davis Bursary and Prize Lecture, Advanced Life Support Group
July 2020	Clinical Leadership Award, Croydon University Hospital

Invited lectures

February 2024	Research in the clinic: novel retinal biomarkers for stillbirth risk prediction. Aberdeen Centre for Women's Health Research Seminar
February 2024	The Small Baby Clinic: joined up thinking and future directions. GE Ultrasound Training Day, Glasgow
January 2024	Air pollution and pregnancy. Women's Health Sustainability Network Webinar.
January 2024	Stillbirth prediction: in search of a crystal ball. RCOG Senior Staff Conference, Dunblane, 2024
December 2023	The role of research clinics in NHS Lothian, William Longworth Day, University of Edinburgh
May 2023	Digital phenotyping in pregnancy: applications within a national birth cohort study. Manchester Maternity Clinical Academic Meeting
September 2022	Stillbirth In older mothers: best practice in prediction Humanitas Fertility Centre, Milan
November 2021	'Personalised stillbirth prevention: surely we can do better?' Aberdeen Centre for Women's Health Research Seminar
July 2019	'In search of a crystal ball: the future of stillbirth prevention' (MatNeo Quality Improvement Launch event, Lewisham and Greenwich)
June 2019	'The past, present and future of trainees in global health: a debate' RCOG World Congress, London, UK
Sept 2018	'What does cross-cultural learning have to teach us about interprofessional education?' Mike Davis Prize Lecture, Advanced Life Support Group

Selected recent publications

Murray S, Thompson J, **Townsend RC**, et al Randomised placebo-controlled trial of antenatal corticosteroids for planned birth in twins (STOPPIT-3): study protocol *BMJ Open* 2024;14:e078778. doi: 10.1136/bmjopen-2023-078778

Elawad T, Scott G, Bone JN, Elwell H, Lopez CE, Filippi V, **Townsend R** et al. the PRECISE Network Risk factors for pre-eclampsia in clinical practice guidelines: Comparison with the evidence. *BJOG*. 2024; 131(1): 46–62. https://doi.org/10.1111/1471-0528.17320

Decrue F, **Townsend R,** Miller MR, Newby D, Reynolds R
Ambient air pollution and maternal cardiovascular health in pregnancy
Heart Published Online First: 22 May 2023. doi: 10.1136/heartjnl-2022-322259

F. Francis, H. Wu, S. Luz, **R. Townsend** and S. Stock
Detecting Intrapartum Fetal Hypoxia from Cardiotocography Using Machine Learning
2022 Computing in Cardiology (CinC), Tampere, Finland, 2022, pp. 1-4, doi: 10.22489/CinC.2022.339.

Townsend R, Calvert C
Antenatal corticosteroids in adequately equipped facilities in low-resource settings
The Lancet Global Health Oct 2022 10:10, e1379 - e1380 doi: 10.1016/S2214-109X(22)00387-4

Allotey J, Whittle R, Snell KIE, Smuk M, **Townsend R**, von Dadelszen P, Heazell AEP, Magee L, Smith GCS, Sandall J, Thilaganathan B, Zamora J, Riley RD, Khalil A, Thangaratinam S; IPPIC Collaborative Network. *External validation of prognostic models to predict stillbirth using the International Prediction of Pregnancy Complications (IPPIC) Network database: an individual participant data meta-analysis.*
Ultrasound in Obstetrics & Gynecology August 2021
https://doi.org/10.1002/uog.23757

Townsend R, Chmielewska B, Barratt I, Kalafat E, van der Meulen J, Gurol-Urganci I, O'Brien P, Morris E, Draycott T, Thangaratinam S, Le Doare K, Ladhani S, von Dadelszen P, Magee L, Khalil A

Global changes in maternity care provision during the COVID-19 pandemic: A systematic review and meta-analysis.
EClinicalMedicine 2021;37:100947 doi:10.1016/j.eclinm.2021.100947

Chmielewska B, Barratt I, **Townsend R**, Kalafat E, van der Meulen J, Gurol-Urganci I, O'Brien P, Morris E, Draycott T, Thangaratinam S, Le Doare K, Ladhani S, von Dadelszen P, Magee L, Khalil A
Effects of the COVID-19 pandemic on maternal and perinatal outcomes: a systematic review and meta-analysis.
Lancet Global Health 31st March 2021 https://doi.org/10.1016/S2214-109X(21)00079-6

Bobae V. Kim, Edoardo C. Aromataris, Willem de Lint, Philippa Middleton, **Rosemary Townsend,** Asma Khalil, James M. Duffy, Vicki Flenady, Shakila Thangaratinam, Ben W. Mol
Developing a core outcome set in interventions to prevent stillbirth: A systematic review on variations of outcome reporting
European Journal of Obstetrics and Gynecology and Reproductive Biology 2020 https://doi.org/10.1016/j.ejogrb.2020.12.036.

Townsend R, Manji A, Allotey J, Heazell AEP, Jorgensen L, Magee LA, Mol BW, Snell KIE, Riley RD, Sandall J, Smith GCS, Patel M, Thilaganathan B, von Dadelszen P, Thangaratinam S, Khalil A
Can risk prediction models help us individualise stillbirth prevention? A systematic review and critical appraisal of published risk models
BJOG 7th September 2020 https://doi.org/10.1111/1471-0528.16487

Townsend R, Sileo FG, Allotey J, Dodds J, Heazell A, Jorgensen L, Kim V. B, Magee L, Mol B, Sandall J, Smith GCS, Thilaganathan B, von Dadelszen P, Thangaratinam S, Khalil A
Prediction of stillbirth: an umbrella review of evaluation of prognostic variables
BJOG 15th September 2020 https://doi.org/10.1111/1471-0528.16510

Townsend R, Khalil A, Allotey J, Snell K, Chan C, Chappell L, Hooper R, Green M, Mol B, Thilaganathan B, Thangaratinam S
Prediction of pre-eclampsia: Review of reviews
Ultrasound in Obstetrics and Gynecology 2019 Jul;54(1):16-27. doi: 10.1002/uog.20117

Townsend R, D'Antonio F, Sileo F, Kumbay H, Thilaganathan B, Khalil A
Perinatal outcome of monochorionic twin pregnancies complicated by selective fetal growth restriction according to management: a systematic review and meta-analysis
Ultrasound in Obstetrics and Gynecology 2019 Jan;53(1):36-46. doi: 10.1002/uog.20114