



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



Trinity Centre for Maternity Care Research

Annual Report 2021

*School of Nursing and Midwifery,
Trinity College Dublin*

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Message from the Director

In 2020, Prof Cecily Begley's tenure as Director of the Centre ended. We'd like to thank Prof Begley for her steering of the Centre's activities. We'd also like to welcome Associate Professor Déirdre Daly in her new role as Director of the TCMCR.

Associate Professor Déirdre Daly



Scope of the Trinity Centre for Maternity Care Research (TCMCR)

The Trinity Centre for Maternity Care Research was officially launched in 2019 and this is the second annual report, covering the period January to December 2021. The Centre is based in the School of Nursing and Midwifery and is the first academic centre to focus solely on the key issues facing pregnant and postpartum women, and their families.

Vision

The Trinity Centre for Maternity Care Research is dedicated to achieving excellence in original maternity care research to help drive improvements in pregnancy, childbirth, early parenthood and early childhood care. The Centre prioritises research collaboration with women and families, clinicians in our partner maternity hospitals, national and international colleagues, and industry, to identify and respond to research questions of local, national and global significance to childbearing women.

Aim

To achieve enhanced quality of life and improved outcomes for women, their babies, partners and families through all stages of the reproductive cycle, in diverse social settings.

This aim is achieved through research and practice development, research education and research dissemination.

TCMCR Strategic Objectives

The main objectives of this Centre are to:

- conduct high-quality research, with and for women and families, that will have high impact and lead to improved care outcomes for parents, babies and families.
- generate and present research evidence on best practice for maternity care, in a user-friendly, publicly accessible format to address society-wide concerns about issues in relation to pregnancy, birth, early parenting and early childhood.
- assist in the development of evidence-based guidelines for maternity health service providers that are respectful of women's autonomy, needs and experiences and will inform practice.
- support clinicians to implement these guidelines to change and improve their practice.
- identify and form teams and collaborative links between clinical and academic staff in our partner maternity and children's hospitals, for the purpose of conducting practice-based research that will enhance the impact of research outcomes on maternal and family health and services.
- support and develop doctoral students' and early career researchers' knowledge and research experience.
- mentor clinical colleagues to conduct research projects as needed at local level.
- strengthen existing national and international interdisciplinary research links, and develop new international collaborations designed to increase and enhance research capacity in maternity care research.
- continue to lead the field in the involvement of women and their families, as service-users, in all aspects of research planning, design, development and implementation, as full collaborative research partners.

TCMCR Membership

Director

Professor Déirdre Daly, Associate Professor in Midwifery

Principal Investigators (PIs)

Professor Agnes Higgins, Professor in Mental Health Nursing

Professor Valerie Smith, Professor in Midwifery

Professor Maria Brenner, Professor in Children's Nursing

Professor Louise Gallagher, Assistant Professor in Midwifery

Other associated researchers (internal)

Professor Joan Lalor, Associate Professor in Midwifery

Professor Colm Oboyle, Assistant Professor in Midwifery

Professor Kathryn Muldoon, Assistant Professor in Midwifery

Professor Vivienne Brady, Assistant Professor in Midwifery

Professor Margaret Dunlea, Assistant Professor in Midwifery

Professor Deirdre O'Malley, Assistant Professor in Midwifery

Professor Eleanor Hollywood, Assistant Professor in Children's Nursing

Professor Sunita Panda, Assistant Professor in Midwifery

Ms Ashamole Clive, Clinical Tutor

Other associated researchers (linked hospitals)

Ms Patricia Hughes, Adjunct Assistant Professor

Ms Ann MacIntyre, Director of Midwifery and Nursing, Coombe Women and Infants University Hospital

Ms Paula Barry, Practice Development Co-ordinator, Coombe Women and Infants University Hospital

Dr Sharon Sheehan, Consultant Obstetrician, Coombe Women and Infants University Hospital

Professor Fergal Malone, Master and Consultant Obstetrician, Rotunda Hospital

Ms Cinny Cusack, Physiotherapy Manager, Rotunda Hospital

Ms Mary Deering, Practice Development Co-ordinator, Rotunda Hospital

Ms Fiona Hanrahan, Director of Midwifery and Nursing, Rotunda Hospital

Ms Ciara Roche, Clinical Midwife Manager, Rotunda Hospital

Other associated researchers (postdoctoral staff)

Dr Denise Alexander, Post-Doctoral Research Fellow

Other associated researchers (postgraduate students)

Ms Atiya Salim Alfurqani

Ms Silvia Alós Pereñíguez

Ms Jill Atkinson

Ms Lorraine Carroll

Ms Lucy Corcoran
 Ms Lisa Corrigan
 Ms Elizabeth Culleton-Quinn
 Ms Elizabeth Farsaci
 Ms Susan Hannon
 Ms Ciara Henderson
 Ms Katie Hill
 Ms Julika Johanna Hudson
 Ms Kate Masterson
 Ms Louise McCulloch
 Ms Ursula Nagle
 Ms Sofia O'Byrne
 Ms Jennifer Trainor

Other associated researchers (research assistants)

Ms Jo Greene
 Ms Kathleen Hannon

Other associated researchers (external)

Ms Niamh Healy, Antenatal Educator, Cuidiú, and Steering Committee member of the TCMCR

Ms Krysia Lynch, Chairperson, Association for Improvement of the Maternity Services Ireland

Professor Declan Devane, School of Nursing and Midwifery, NUI Galway

Professor Charles Normand, Edward Kennedy Professor of Health Policy & Management, TCD

Professor Michael Turner, National Lead for the HSE Clinical Programme in Obstetrics and Gynaecology

Dr Paul Corcoran, Senior Lecturer in Perinatal Epidemiology with the National Perinatal Epidemiology Centre in the Department of Obstetrics and Gynaecology, and the Department of Epidemiology and Public Health, UCC, Cork

Dr Sara Leitão, Research Officer, National Perinatal Epidemiology Centre, Department of Obstetrics and Gynaecology and Department of Epidemiology and Public Health, UCC, Cork

Professor Mechthild Gross, Hannover Medical School, Germany

Professor Ingela Lundgren, Sahlgrenska Academy, University of Gothenburg, Sweden

Professor Marie Berg, Sahlgrenska Academy, University of Gothenburg

Professor Koen Putman, Interuniversity Centre for Health Economics (I-CHER), Vrije Universiteit Brussel, Belgium

Professor Andrew Weeks, University of Liverpool, UK

Ms Gill Gyte, Consumer Representative, Cochrane Collaboration, UK

Ms Karen Guilliland, CEO, New Zealand College of Midwives, NZ

Dr Lesley Dixon, Practice Development Officer, New Zealand College of Midwives, NZ

Professor Yvonne Hauck, School of Nursing, Midwifery and Paramedicine, Curtin University, Perth, Australia

Dr Liz Newnham, Griffith University, Australia

Professor Christine Rubertsson, Department of Women's and Children's Health, Uppsala University, Uppsala, Sweden

Professor Stephanie Brown, Professor and NHMRC Senior Research Fellow, Intergenerational Health, Murdoch Children's Research Institute, Melbourne, Australia

Dr Deirdre Gartland, Research Fellow, Intergenerational Health, Murdoch Children's Research Institute, Melbourne, Australia

Dr Elin Naurin, Senior lecturer and Assistant Professor, Marie Curie Fellow
Multidisciplinary Opinion and Democracy Research Group (MOD),
Department of Political Science, University of Gothenburg, Sweden

Ms Marcelina Szafranska, Clinical Skills Tutor, School of Nursing, Midwifery and Health Systems,
University College Dublin, Dublin

Dr Pat Moran, Health Economics Researcher, Department of Health

Research Activities

The four Flagship projects of the TCMCR are the MAMMI Study, COST Action 18211, TechChild, and the Evidence Synthesis in Maternity Care initiative.



The MAMMI Study

The Maternal health And Maternal Morbidity in Ireland (MAMMI) study is a longitudinal cohort study exploring the health and health problems experienced by first-time mothers in Ireland. The study began in 2012, with 3000 nulliparous mothers recruited across three maternity hospitals. Data collection for the five-year follow up study will be completed in 2022, while the development of the ten-year follow-up study survey is currently in progress.

The MAMMI SIM (Second baby survey, Intervention to improve urinary incontinence outcomes and Measuring costs) follow up was completed in 2021. This strand explored the health and health issues of women after the birth of their second baby.



MAMMI Study-related projects

Ongoing and recent MAMMI study-related projects include:

The MAMMI ten-year follow-up study

Team: Prof Déirdre Daly (PI)

Funding: Research Boost Award 2021

Period: 2022-2026

Grant: €15,000

The MAMMI five-year follow-up study

Team: Prof Déirdre Daly (PI), Dr Francesca Wuytack, Dr Patrick Moran, Prof Cecily Begley

Funding: Health Services Executive (HSE) (to complete preparatory work for the study set-up)

Period: 2017-2022

Grant: €47,970.65

The MAMMI SIM (Second baby, Intervention development, Measurement of costs) study

Team: Lead: Prof Cecily Begley. Post-doctoral researchers: Prof Déirdre Daly, Dr Francesca Wuytack, Dr Patrick Moran

Funding: Health Research Board (HRB) Ireland ICE Award

Period: 2017-2021

Grant: €910,147

COST Action 18211: Perinatal Mental



Health and Birth Related Trauma: Maximising Best Practice and optimal Outcomes

The DEVoTiON (DEliVery-related Trauma Outcomes Network) is a COST Action designed to bring together researchers and clinicians from diverse fields, that have an interest in birth-related trauma and the emotional and psychological outcomes for women, infants and families, meeting the COST excellence and inclusiveness policy regarding spreading excellence and widening participation. COST Vision and Strategic Goals outline three priorities for its positioning in the remaining part of Horizon 2020 and FP9, the next Framework Programme for Research and Innovation: 1) Promoting and spreading excellence, 2) Fostering interdisciplinary research for breakthrough science, 3) Empowering and retaining young researchers and innovators. DEVoTiON responds to these priorities. This network is made up of experts from a wide variety of disciplines at various stages in their careers, including, midwifery, obstetrics, psychology (various branches i.e. health, medical, prenatal, family studies, neuro, clinical, behavioural), psychiatry, paediatrics, neurology, neurobiology, social work, analytical chemistry, biochemistry, epidemiology, epigenetics, health economists, media and informatics.

Project	Perinatal Mental Health and Birth Related Trauma: Maximising Best Practice and optimal Outcomes (Website: https://www.ca18211.eu/)
Team	Prof Joan Lalor
Funding	COST Programme, EU Commission
Period	2019-2023
Grant	€500,000

TechChild - Just because we can, should we? An anthropological perspective on the initiation of technology dependence to sustain a child's life

TechChild is a five- and half-year programme of research, funded by the European Research Council, which began in 2019. The aim of TechChild is to explore influences on the initiation of technological support which will be required long-term to sustain a child's life and to develop a theory to explain the initiation of technology dependence in the context of contrasting health, legal, and socio-political systems. The objectives are:

1. To conceptualise influences on the initiation of technology dependence in PICU.
2. To explore the formal and informal processes internationally that (REALLY) influences the initiation of technology dependence, from the perspective of those with the authority and ultimate power to make that decision.
3. To identify the greatest influences on the initiation of technology dependence.
4. To elicit consensus and understand influences on the initiation of technology dependence in the context of the contrasting health, legal, and socio-political systems.
5. To develop a theory of technology initiation in healthcare, explaining the interactions and context of the initiation of technology dependence.

TechChild - Just because we can, should we? An anthropological perspective on the initiation of technology dependence to sustain a child's life.
Team: Prof Maria Brenner (PI), Denise Alexander, Mary Quirke, Jo Greene, Carmel Doyle, Kate Masterson, Katie Hill
Funding: European Research Council
Period: 2019-2024
Grant: €1,464,101

Supporting Evidence Syntheses in Maternity Care

The TCMCR, through Prof Valerie Smith as a member of Evidence Synthesis Ireland and Cochrane Ireland and TCD's representative ESI Centre mentor, is actively supporting evidence synthesis in maternity care.

ESI Mentorship projects

Physiological track-and-trigger/early warning systems for use in maternity care (Cochrane Pregnancy and Childbirth Systematic Review)

Team: Prof Valerie Smith, Dr Maria Noonan (ESI Fellow).

Funding: Health Research Board – Evidence Synthesis Ireland (HRB-ESI)

Period: November 2019 – January 2021

Grant: €8,000

Maternity care during COVID-19: a qualitative evidence synthesis of women's and maternity care providers' views and experiences

Team: Prof Valerie Smith, Sarah Jane Flaherty SJ (ESI Fellow), Karen Matvienko-Sikar, Hannah Delaney

Funding: HRB-ESI

Period: October 2020 – November 2021

Grant: €8,000

Early warning systems in maternity care: a qualitative evidence synthesis of maternity care providers' views and experiences

Team: Prof Valerie Smith, Dr Kumar Cithambaram (ESI Fellow), Prof Deirdre O'Malley.

Funding: HRB-ESI

Period: November 2020 – October 2021

Grant: €8,000

Other Research Projects

Ongoing research projects

Supporting trial methodological activity in TCD

Team: Prof Valerie Smith (TCD Lead Partner), Prof Declan Devane, Dr Elaine Toomey, Prof Peter Doran, Prof Alistair Nichol, Dr Linda Biesty, Dr Sandra Galvin

Funding: Health Research Board – Trials Methodology Research Network (Renewal 3)

Period: Sept 2021 – Aug 2026

Grant: €3,000,000 (TCD allocation €225,115)

A case study of Meath Women's Refuge and Support Services (MWRSS) children's programme

Team: Dr Eleanor Hollywood (PI), Prof Catherine Comiskey, Dr Sonam Prakashini Banka

Funding: Meath Women's Refuge and Support Services (MWRSS)

Period: December 2021 – December 2022

Grant: €7,980

School-aged children and the management of Type 1 Diabetes in the primary school environment: an investigation of how to support children, parents and schools

Team: Dr Eleanor Hollywood (PI), Prof Catherine Comiskey, Dr Sonam Prakashini Banka, Ms. Helen Fitzgerald

Funding: Dean's Research Initiative Fund 2020-21

Period: November 2021 – December 2022

Grant: €20,000

Collaborative study of the physiological impact of Pregnancy yoga within the University of Alberta, Canada

Team: Lisa Corrigan, Dr Margie Davenport, University of Alberta, Prof Déirdre Daly

Funding: Research Boost Award 2021

Period: November 2021- November 2022

Grant: €4340

The provision of evidence to inform the development of innovative midwifery led postnatal services for women in the South-East region of Ireland.

Team: Dr Deirdre Daly (PI) and Dr Vivienne Brady (co-PI)

Funding: Nursing and Midwifery Planning and Development Unit South-East (Grant number: R 21/963)

Awarded 2021. Research period: June 2021 – September 2022

An online survey to determine the antenatal education needs of primigravid women attending the CWIUH to inform a programme of antenatal education offered by midwives.

Team: Dr Vivienne Brady (PI), Sheppard M., McSweeney F., Whelan C. and Walsh A.

Funding: Unfunded

Period: 2020-Current

Research projects completed in 2021

Education and training for recruiters to neonatal trials: a pilot embedded randomised trial

Team: Prof Valerie Smith, Prof Declan Devane, Sandra Galvin, Shaun Treweek, Carrol Gamble, Hannah Delaney.

Funding: Health Research Board Ireland (HRB-TMRN-2017-1-Pilot)

Period: January 2018 – December 2021

Grant: €349,735

An Investigation into the need for Birth Reflection Clinics in the Irish Maternity Services as an aid to recovery after birth trauma

Team: Sinéad McAteer (Laidlaw Scholar), Prof Déirdre Daly (Supervisor)

Funding: Laidlaw Undergraduate Research & Leadership Scholarship

<https://www.tcd.ie/Careers/Students/Awards/Laidlaw/Laidlaw-Trinity.Php>

Period: 2020 – 2021

Grant: Student stipend

Factors influencing decision-making for caesarean section

Team: Dr Sunita Panda

Funding: HRB Knowledge Exchange Dissemination Scheme (KEDS) award

Period: 2020 – 2021

Grant: €25,482.75

Respectful and disrespectful care in the Czech Republic: an online survey of clinicians' and women's views

Team: Prof Cecily Begley, Prof Déirdre Daly, Natalie Sedlicka

Funding: Unfunded

Period: Jan 2018-September 2021

TCMCR Outputs 2021

Journal Articles

Between January 2021– December 2021, **18 journal articles** were issued by the TCMCR.

1. Alexander D., Quirke M.B., Berry J., Eustace-Cook J., Leroy P., Masterson K., Healy M. & Brenner M. (2021). Initiating technology dependence to sustain a child's life: a systematic review of reasons. *Journal of Medical Ethics* Published Online First: 19 July 2021. <http://dx.doi.org/10.1136/medethics-2020-107099>
2. Atkins J., Smith V., Carroll M., Sheaf G. & Higgins A. (2021) Perspectives of partners of mothers who experience mental distress in the postnatal period: A systematic review and qualitative evidence synthesis. *Midwifery* **93**, 102868. <https://doi.org/10.1016/j.midw.2020.102868>
3. Baranowska B., Kajdy A., Kiersnowska I., Sys D., Tataj-Puzyna U., Daly D., Rabijewski M., Bączek G. & Węgrzynowska M. (2021) Oxytocin administration for induction and augmentation of labour in Polish maternity units – an observational study. *BMC Pregnancy and Childbirth* **21**, 764. <https://doi.org/10.1186/s12884-021-04190-w>
4. Brenner M., Alexander D., Quirke M.B., Eustace-Cook J., Leroy P., Berry J., Healy M., Doyle C. & Masterson K. (2021) A systematic concept analysis of 'technology dependent': challenging the terminology. *European Journal of Pediatrics* **180**, 1-12. <https://doi.org/10.1007/s00431-020-03737-x>
5. Corrigan L., O Farrell A., Moran P. & Daly D. (2021) Hypertension in pregnancy: prevalence, risk factors and outcomes for women birthing in Ireland. *Pregnancy Hypertension* **24**, 1-6. <https://doi.org/10.1016/j.preghy.2021.02.005>
6. Corrigan L., Moran P., McGrath N., Eustace-Cook J. & Daly D. (2021) The characteristics and effectiveness of pregnancy yoga interventions: A systematic review and meta-analysis. [Under review *BMC Pregnancy and Childbirth* Dec 2021].
7. Corrigan L. (2021) Prenatal yoga. *Yoga Therapy Ireland* **Spring(80)**, 10-12.
8. Corrigan L., O'Farrell A., Moran P. & Daly D. (2021). Hypertension in pregnancy: Prevalence, risk factors and outcomes for women birthing in Ireland. *Pregnancy Hypertension* **14(24)**, 1-6.
9. Greene R.A., McKernan J., Manning E., Corcoran P., Byrne R., Cooley S., Daly D., Fallon A., Higgins M., Jones C., Kinsella I., Murphy C., Murphy J. & Ni Bhuinneain M. (2021) On behalf of the Maternal Morbidity Advisory Group, Major obstetric haemorrhage: Incidence, management and quality of care in Irish maternity units. *European Journal of Obstetrics &*

Gynaecology & Reproductive Biology **257**, 114 – 120.

<https://doi.org/10.1016/j.ejogrb.2020.12.021>.

10. Hayes D.J.L., Devane D., Dumville J.C., **Smith V.**, Walsh T. & Heazell A.E.P. (2021) Development of a core outcome set (COS) for studies relating to awareness and clinical management of reduced fetal movement: study protocol. *Trials* **22**, 894 <https://doi.org/10.1186/s13063-021-05839-9>
11. Kenny M., Duffy K., Hynes G., Fortune G., Smith O., Hilliard C., O'Rourke M. & Higgins A. (2021) 'It can be difficult to find the right words': Parents' needs when breaking news and communicating to children with cancer and their siblings. *Journal of Psychosocial Oncology* **39**(4), 571 – 585. <https://doi.org/10.1080/07347332.2021.1890305>.
12. O'Malley D., Higgins A. & Smith V. (2021) Exploring the complexities of postpartum sexual health. *Current Sexual Health Reports* **13**, 128-135. <https://doi.org/10.1007/s11930-021-00315-6>
13. Smith V., Flaherty S.J., Matvienko-Sikar K. & Delaney H. (2021) Maternity care during COVID-19: a protocol for a qualitative evidence synthesis of women's and maternity care providers' views and experiences. [version 1; peer review: 2 approved, 1 approved with reservations]. *HRB Open Research* **4**:21 <https://doi.org/10.12688/hrbopenres.13233.1>
14. Smith V., Panda S., O'Malley D., Vallejo N. & Barry P. (2021) COVID 19 and clinical outcomes of pregnancy: a comparative study. *British Journal of Midwifery* **29**(11), 642-647. <https://doi.org/10.12968/bjom.2021.29.11.642>.
15. Smith V., Cithambaram K. & O'Malley D. (2021) Early warning systems in maternity care: protocol for a qualitative evidence synthesis of maternity care providers' views and experiences [version 1; peer review; peer review: 2 approved]. *HRB Open Research*, **4**, (59). <https://doi.org/10.12688/hrbopenres.13270.1>
16. Smith, V., Muldoon, K., Brady V. & Delaney H. (2021) Assessing fetal movements in pregnancy: A qualitative evidence synthesis of women's views, perspectives and experiences. *BMC Pregnancy and Childbirth* **21**, 197. 1 – 14. <https://doi.org/10.1186/s12884-021-03667-y>
17. Wuytack F., Smith V. & Cleary B.J. (2021) Oral non-steroidal anti-inflammatory drugs (single dose) for perineal pain in the early postpartum period. *Cochrane Database of Systematic Reviews* **Issue 1**, Art. No: CD011352. <https://doi.org/10.1002/14651858.CD011352.pub3>.
18. Wuytack F, Moran P, Daly D, Panda S, Hannon K, Cusack C, Donovan M. (2021) A systematic review of utility-based and disease-specific quality of life measurement instruments for women with urinary incontinence, *Neurourology and Urodynamics*, 1 – 29. <http://doi.org/10.1002/nau.24678>

Conference Presentations

The Centre issued **18 conference presentations** between January - December 2021.

1. Alexander D., Doyle C., Hill K., Masterson K., Quirke M. & Brenner M. (2021) 'Nurses' perceived functions of a bioethics committee in the PICU.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
2. Alexander D., Brenner M. & Quirke Mary. (2021) 'An examination of the liminal space between identifying care needs and pursuing the initiation of technology dependence required long-term to sustain a child's life.' *Association for Medical Humanities Conference*. Limerick, Ireland (online), 15-17 June.
3. Corrigan L., Eustace-Cook J., Moran P. & Daly D. (2021) 'The characteristics and effectiveness of pregnancy yoga interventions: a systematic review and meta-analysis.' *40th Annual International Nursing & Midwifery Research and Education Conference*. Online, 2-3 March, 2021. **Poster Presentation.**
4. Corrigan L., Eustace-Cook J., Moran P. & Daly D. (2021) 'The characteristics and effectiveness of pregnancy yoga interventions: a systematic review and meta-analysis.' *7th Annual SPHeRE Network Conference*. Online, 23 February. **Poster Presentation, 2021**
5. Corrigan L., Walsh A., Moran P. & Daly D. (2021) 'Design and delivery of an evidence-based pregnancy yoga programme: preliminary findings.' *2021 Symposium on Yoga Research*, Online, 15-16 November. **Oral Presentation.**
6. Corrigan L., Walsh A., Moran P. & Daly D. (2021) 'Design and delivery of an evidence-based pregnancy yoga programme.' *Trinity Health and Education International Research Conference*. Online, 10-11 March, 2021. **Oral Presentation, 2021**
7. Culleton-Quinn E., Fleming N., Bø K., Mockler D., Cusack C. & Daly D. (2021) 'A systematic review of female athletes'/sportswomen's experiences of incontinence and symptoms of pelvic floor dysfunction.' <https://www.ics.org/education/icspublications/abstracts>, *International Continence Society Conference (Online)*, Melbourne, October 2021, 2021
8. Dado M. & Smith V. (2021) 'Women's experience of water immersion during labour and childbirth in a hospital setting in Ireland.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
9. Hannon S., Higgins A. & Daly D. (2021) 'Resilience in pregnancy and early motherhood: a principle-based concept analysis.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.

10. Hyland M., Hollywood E., Banka S. & Comiskey C. (2021) 'Alcohol use and alcohol-related harms: exploring risk and protective factors among young people living in urban disadvantage.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
11. Hollywood E., Hill K., Murphy M. & O'Neill T. (2021) 'A dash to 'get online'! How Covid19 arrived in Ireland and children's nurse education swiftly went virtual.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
12. Hollywood E., Comiskey C., Lalor J. & Creaner M. (2021) 'What does family mean for the school-aged child who lives in an area of urban disadvantage?' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
13. Masterson K., Alexander D. & Brenner M. (2021) 'P0498 / #2028: More than a Witness: The role of the PICU nurse in the initiation of long-term ventilation.' *World Federation of Paediatric Intensive and Critical Care Societies (WFPICCS) World congress: Pediatric Critical Care Medicine 22*, 251. <https://doi.org/10.1097/01.pcc.0000740328.57477.68>
14. Masterson K., Alexander D. & Brenner, M. (2021) 'The bedside nurses evolving role in planning care delivery in a PICU'. *Royal Children's Hospital Melbourne: Nursing Research and Clinical Innovations Symposium 2021*.
15. Quirke M., Alexander D. & Brenner M (2021) 'Retaining rapport in research interviews on sensitive issues: Adapting an international project during a pandemic.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
16. Panda S., O'Malley D., Barry P., Vallejo N. & Smith V. (2021) 'Women's suggestions on how to enhance the experience of maternity care during COVID-19 pandemic – a qualitative descriptive study.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
17. O'Malley D., Panda S., Barry P., Vallejo N. & Smith V. (2021) 'Women's experience of maternity care during COVID-19 – a qualitative descriptive study.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.
18. Smith V., O'Malley D., Barry P., Vallejo N. & Panda S. (2021) 'The impact of COVID-19 on pregnant women's clinical outcomes: a before and during comparative study.' *Trinity Health and Education International Research Conference 2021 (THEconf2021)*. School of Nursing and Midwifery, Trinity College Dublin, 9th-11th March.

Invited talks

The Centre issued **1 invited talk** between January - December 2021.

1. Brenner M. (2021). 'Progressing the Conversation on Complex and Integrated Care in Europe'. *European Academy of Paediatrics Winter Meeting*. 3rd November (virtual).

Online communication and engagement

Social Media platforms

The TCMCR Twitter account was set up in May 2021. The Twitter handle is https://twitter.com/TCD_TCMCR. The MAMMI Study is active on Twitter ([@mammi_tcd](https://twitter.com/@mammi_tcd) with 729 followers) and on Instagram (@the_mammi_study_tcd, with 990 followers). The MAMMI Study is active on Facebook (<https://www.facebook.com/mammistudy/>) with 685 likes and 729 followers as of March 2022.

The DEVOTION COST Action study is also active on Twitter ([@CA18211](https://twitter.com/@CA18211)) and currently has over 564 followers, as of March 2022.

TCMCR's top Twitter stories

April 16, 2021

'In this video, Dr. Sunita Panda shares her doctoral research findings on the factors influencing decision-making for caesarean section for first-time mothers in Ireland.'

16 likes, 7 retweets

[@mammi_tcd](#)

**July 9, 2021**

irishexaminer.com

'Nobody wants to acknowledge you can get PTSD after birth': Birth trauma is more common than you may think. Dr Daly talks with Helen O'Callaghan about health after birth. We talk to the experts about ...

'Nobody wants to acknowledge you can get PTSD after birth': Birth trauma is more common than you may think.' Dr Daly talks with Helen O'Callaghan about health after birth.' [@irishexaminer](#) [@TCD_SNM](#) [@AIMSIreland](#)

13 likes, 9 retweets

[@mammi_tcd](#)

November 5, 2021



sciencedirect.com

Sexual health issues postpartum—A mixed methods study o...

To identify women's help-seeking behavior in relation to sexual health issues after the birth of their first baby. A mixe...

Two papers out now on postpartum sexual health. The first examines women's help-seeking behaviour in relation to sexual health issues after the birth of their first baby.

22 likes, 12 retweets

[@mammi_tcd](#)

Media

<i>Description</i>	<i>Link</i>
Dwyer, O. (2021) Experts have 'concerns' about Rotunda trial involving induction of healthy first-time mothers. <i>The Journal</i> , 16 th July 2021.	Read more
O'Callaghan, H. (2021) Nobody wants to acknowledge you can get PTSD after birth': Birth trauma is more common than you may think. <i>The Irish Examiner</i> , 9 th July 2021.	Read more
Griffin, N (2021). Maternity restrictions: Some women enjoyed 'peace and quiet' but felt sorry for absent partners, new study finds. <i>The Irish Examiner</i> , 25 th May 2021.	Read more
Just because we can, should we? The TechChild story so far... <i>European Association of Palliative Care</i> , 21 st November 2021	Read more

New Grants awarded in 2021

5 new grants were awarded in 2021. The following projects were awarded:

MAMMI 10-year follow-up study

Principal Investigator: Prof Déirdre Daly

Funding Agency and amount: Research Boost Programme Dean and Associate Deans of Research/Research Committee - €15,000

Supporting trial methodological activity in TCD

Principal Investigator: Prof Valerie Smith (TCD Lead Partner)

Funding Agency and amount: Health Research Board – Trials Methodology Research Network (Renewal 3) (TCD allocation €225,115)

Collaborative study of the physiological impact of Pregnancy yoga within the University of Alberta, Canada

Principal Investigator: Dr Lisa Corrigan

Funding Agency: Research Boost Award

A case study of Meath Women's Refuge and Support Services (MWRSS) children's programme

Principal Investigator: Dr Eleanor Hollywood

Funding Agency and amount: Meath Women's Refuge and Support Services (MWRSS) - €7980

The provision of evidence to inform the development of innovative midwifery led postnatal services for women in the South-East region of Ireland

Principal Investigator(s): Prof Deirdre Daly and Dr Vivienne Brady

Funding Agency: Nursing and Midwifery Planning and Development Unit South East (Grant number: R 21/963)

Future Opportunities

- Data collection for the MAMMI Study 5-year follow up will be completed in 2022. Development of the 10-year follow-up survey started in January 2022 and will continue until 2026. This study will help to provide information on the long-term health and prevalence of morbidities that women are experiencing 10 years after the birth of their first baby. Additionally, the study will include a new section on menopause, which will be developed in partnership with women and based on the findings of a systematic review of women's experiences of menopause. This new section aims to bring new insight into the experiences and health needs of women in Ireland as they transition through menopause.
- An official launch for the Centre will be held in the School of Nursing and Midwifery in June 2022. This will provide our stakeholders and wider community the opportunity to meet in person and plan the Centre's future activities.

Key Challenges

- The COVID-19 pandemic has delayed our official launch of the Centre and ability to schedule research activities with our linked representatives. As we begin to re-open, the need to establish the position of TCMCR within Trinity and on a national level, as an emerging centre of maternal health research, is an ongoing process.
- Translating research activities into frameworks for policy development to improve maternal and child health services and outcomes.

Research Centre Highlights

Annual TheConf 2021

The annual School THE conference was held on the 10th and 11th of March 2021. Six of the 17 full-day concurrent strands provided over the two days were run by TCMCR, three on maternal health, two on child and family health and one on maternal mental health. Following public health guidelines, the conference took place online. Prof Valerie Smith also ran a half-day pre-conference workshop on how to conduct Rapid Reviews.

UPENN GRIP Internships 2021

In 2021, the TechChild team facilitated two internships for students from the University of Pennsylvania as part of the PENN GRIP internship programme.

The following projects were conducted:

Nurses' views on the term "technology dependence" in paediatric intensive care: an exploration of a semantic theory-practice gap

Student: Breanna Trainor

Supervisors: Prof Maria Brenner and Denise Alexander

Physicians' interpretations of the term "technology dependence" in pediatric intensive care

Student: Angela Lao

Supervisors: Maria Brenner and Denise Alexander

Completed taught MScs in Midwifery 2021

Amanda Connor

Dissertation: Safety and efficacy of midwifery-led care of woman attending for MTOP and women's satisfaction with this care compared to care provided by physicians.

Supervisor: Prof Margaret Carroll

Aideen Neill

Dissertation: Women's experiences of an early pregnancy assessment unit in urban maternity hospital. A qualitative descriptive study.

Supervisor: Prof Joan Lalor

Eimear Tobin

Dissertation: Midwives experiences of intermittent auscultation for fetal assessment during labour: A qualitative evidence synthesis

Supervisor: Dr Deirdre O' Malley

PhD Students

There were 18 PhD students associated with the Centre in 2021.

Atiya Salim Alfurqani

Project: Attitude of health care providers and Omani Antenatal women about group-based antenatal care – An Exploratory Study.

Supervisor: Dr Vivienne Brady

Silvia Alós Pereñíguez

Project: Intrapartum synOX administration among women with spontaneous onset of labour; Involving for improving health in childbirth.

Supervisor: Prof Déirdre Daly

Jill Atkinson

Project: Perspectives of Partners of Mothers who experience Mental Distress in the Postnatal Period (PMD Partners' Study) (HRB Research Fellowship)

Supervisors: Prof Agnes Higgins & Prof Valerie Smith

Lorraine Carroll

Project: Risk factors for and outcomes associated with reduced fetal movements in pregnancy.

Supervisor: Prof. Valerie Smith

Lucy Corcoran

Project: To explore the spiritual needs of parents of babies admitted to the Neonatal Intensive Care unit

Supervisor: Dr Vivienne Brady

Lisa Corrigan

Project: Protocol development and feasibility study of a pregnancy yoga intervention for stress reduction and improved quality of life and birth outcomes.

Completed in March 2022

Supervisor: Prof. Deirdre Daly

Elizabeth Culleton-Quinn

Project: Prevalence and Experiences of Urinary Incontinence, and Pelvic Floor Muscle Training and Function in Elite Female Athletes

Supervisor: Prof Deirdre Daly

Margaret Dunlea

Project: Change and entrenchment in Irish maternity care policies and practices: a macro and micro exploration of power-relations and social processes.

Completed in September 2021

Dr Vivienne Brady/ Prof Cecily Begley

Elizabeth Farsaci

Project: Women's lived experiences of access to alternative birth options within the context of Ireland's National Maternity Strategy

Supervisors: Dr Colm Oboyle & Dr Elizabeth Newnham

Susan Hannon

Project: Women's mental health and mental resilience five years after first-time motherhood: a mixed methods study.

Supervisors: Prof Deirdre Daly and Prof Agnes Higgins

Ciara Henderson

Project: Out of Sight – A grounded theory study of lived experiences of perinatally bereaved mothers 1940-2010. (1252 Scholarship)

Supervisor: Prof Joan Lalor

Katie Hill

Project: The meaning given to care delivery for children with complex care needs in PICU during the COVID-19 pandemic.

Supervisors: Prof Maria Brenner & Prof Catherine McCabe

Julika Johanna Hudson

Project: Women's Understanding of the Maternal and Fetal Dyad and its implications for maternal autonomy

Supervisor: Prof Joan Lalor

Kate Masterson

Project: The voice of the PICU nurse at the point of initiation of long-term ventilation

Supervisors: Prof Maria Brenner & Dr Denise Alexander

Louise McCulloch

Project: The experience of concurrently parenting and focusing on addiction recovery

Supervisor: Dr Vivienne Brady

Ursula Nagle

Project: The impact of perinatal trauma on Mothers: A mixed-methods study investigating and exploring the prevalence, women's experiences and related factors associated with birth trauma in an Irish maternity setting

Supervisor: Prof Joan Lalor

Sofia O'Byrne

Project: The lived experience of limiting family size as a result of traumatic childbirth

Supervisor: Prof Joan Lalor

Jennifer Trainor

Project: Cultural Perceptions of pregnancy and birth: A global comparison

Supervisor: Dr Vivienne Brady

FOR MORE INFORMATION

Address: Déirdre Daly
Trinity Centre for Maternity Care Research,
2 Clare Street,
Dublin 2
D02 CK80

Email: Associate Professor Déirdre Daly: dalyd8@tcd.ie
Kathleen Hannon, Research Assistant: hannonka@tcd.ie

Website: <https://www.tcd.ie/tcmcr>

Twitter: https://twitter.com/TCD_TCMCR