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Employment

Research Fellow

School of Medicine, Dentistry and Biomedical Sciences
Queen's University Belfast
Belfast, United Kingdom
01 May 2021 → present

Centre for Public Health

Queen's University Belfast
United Kingdom
01 May 2021 → present

Research outputs

Automated machine learning for predicting diabetic retinopathy progression from ultra-widefield retinal images

Silva, P. S., Zhang, D., Jacoba, C. M. P., Fickweiler, W., Lewis, D., Leitmeyer, J., Curran, K., Salongcay, R. P., Doan, D., Ashraf, M., Cavallerano, J. D., Sun, J. K., Peto, T. & Aiello, L. P., 08 Feb 2024, (Early online date) In: JAMA Ophthalmology. 7 p.

Diabetic retinopathy progression among children and young adults with Type 1 diabetes in India

Curran, K., Bettioli, A., Ladkat, D., Khadilkar, A., Bhor, S., Sambare, C., Sproule, A., Quinn, M. J., Willoughby, C. E. & Peto, T., 12 Oct 2023.

CHILDDSTAR: children living with diabetes see and thrive with AI review

Curran, K., Whitestone, N., Zabeen, B., Ahmed, M., Husain, L., Alauddin, M., Hossain, M. A., Patnaik, J. L., Lanoutee, G., Cherwek, D. H., Congdon, N., Peto, T. & Jaccard, N., 09 Oct 2023, In: Clinical Medicine Insights: Endocrinology and Diabetes. 16, 8 p.

Deep ocular phenotyping across primary open-angle glaucoma genetic burden

Sekimitsu, S., Xiang, D., Smith, S. L., Curran, K., Elze, T., Friedman, D. S., Foster, P. J., Luo, Y., Pasquale, L. R., Peto, T., Segrè, A. V., Shweikh, Y., Warwick, A., Zhao, Y., Wiggs, J. L., Zebardast, N. & UK Biobank Eye and Vision Consortium, 01 Sept 2023, In: JAMA Ophthalmology. 141, 9, p. 891-899

Grading images for diabetic retinopathy: tips and guidelines

Jamison, C., Cushley, L., Curran, K. & Peto, T., 07 Jul 2023, In: Community Eye Health Journal. 36, 119, p. 11-13

Correction: UK Biobank retinal imaging grading: methodology, baseline characteristics and findings for common ocular diseases

Warwick, A. N., Curran, K., Hamill, B., Stuart, K., Khawaja, A. P., Foster, P. J., Lotery, A. J., Quinn, M., Madhusudhan, S., Balaskas, K. & Peto, T., Jul 2023, In: Eye. 37, p. 2163-2163 1 p.

Anti-vascular endothelial growth factor for diabetic macular oedema: a network meta-analysis

Virgili, G., Curran, K., Lucenteforte, E., Peto, T. & Parravano, M., 27 Jun 2023, In: Cochrane Database of Systematic Reviews. 6, 115 p., CD007419.

Diabetic retinopathy progression among children and young adults with Type 1 diabetes in India

Curran, K., Bettiol, A., Ladkat, D., Khadilkar, A., Bhor, S., Sambare, C., Sproule, A., Quinn, M. J., Willoughby, C. E. & Peto, T., 02 Jun 2023.

Performance of automated machine learning for predicting diabetic retinopathy progression from ultrawide field retinal images

Silva, P. S., Jacoba, C. M. P., Zhang, D., Fickweiler, W., Lewis, D., Leitmeyer, J., Salongcay, R., Curran, K., Doan, D., Ashraf, M., Cavallerano, J., Sun, J. K., Peto, T. & Aiello, L. P., 01 Jun 2023, In: Investigative Ophthalmology and Visual Science. 64, 8, p. 1873 1 p.

The NaviSight Study: An investigation into the peripheral retina and navigating the built environment

Cushley, L., Galway, N., Curran, K., Csincsik, L., Virgili, G. & Peto, T., 23 Apr 2023.

A life outside ophthalmology

Curran, K., Aiello, L. P. & Peto, T., 03 Apr 2023, In: Eye News. 29, 6

Inclusion of diabetic retinopathy screening strategies in national-level diabetes care planning in low- and middle-income countries: a scoping review

Curran, K., Piyasena, P., Congdon, N., Duke, L., Malanda, B. & Peto, T., 02 Jan 2023, In: Health Research Policy and Systems. 21, 11 p., 2.

A randomised controlled trial evaluating internal limiting membrane peeling forceps in macular hole surgery

Ferrara, M., Rivera-Real, A., Hillier, R. J., Habib, M., Kadhim, M. R., Sandinha, M. T., Curran, K., Muldrew, A. & Steel, D. H. W., 13 Dec 2022, In: Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie. 261, p. 1553–1562

Influences on technology use and interpretation among young people living with type 1 diabetes

Cushley, L. N., Krezel, A., Curran, K., Parker, K., Millar, S. & Peto, T., 07 Dec 2022, (Early online date) In: Lifestyle Medicine . 6 p., e73.

Do people with diabetic retinopathy have issues moving around our towns and cities?

Cushley, L., Csincsik, L., Curran, K., Virgili, G., Galway, N. & Peto, T., 05 Dec 2022.

UK Biobank retinal imaging grading: methodology, baseline characteristics and findings for common ocular diseases

Warwick, A. N., Curran, K., Hamill, B., Stuart, K., Khawaja, A. P., Foster, P. J., Lotery, A. J., Quinn, M., Madhusudhan, S., Balaskas, K. & Peto, T., 03 Nov 2022, (Early online date) In: Eye. 8 p.

The NaviSight Study: Do people with retinitis pigmentosa and diabetic eye disease have problems moving around our towns and cities?

Cushley, L., Csincsik, L., Curran, K., Virgili, G., Galway, N. & Peto, T., Nov 2022.

100 years of insulin

Carlisle, A., Walshe, K., Aiello, L. P., Peto, T. & Curran, K., 03 Oct 2022, In: Eye News. 29, 3, 3 p.

Impact of targeted diabetic retinopathy training for graders in Vietnam and the implications for future diabetic retinopathy screening programmes: a diagnostic test accuracy study

Curran, K., Congdon, N., Hoang, T. T., Lohfeld, L., Nguyen, V. T., Nguyen, H. T., Nguyen, Q. N., Dardis, C., Virgili, G., Piyasena, P., Tran, H., Salongcay, R. P., Tung, M. Q. & Peto, T., Sept 2022, In: BMJ Open. 12, 9, p. e059205

Ophthalmologists' and patients' perspectives on treatments for diabetic retinopathy and maculopathy in Vietnam: a descriptive qualitative study

Curran, K., Lohfeld, L., Congdon, N., Peto, T., Hoang, T. T., Nguyen, H. T., Nguyen, Q. N., Nguyen, V. T., Dardis, C., Tran, H. H., Tran, H. H., Vu, A. T. & Tung, M. Q., 07 Jul 2022, In: BMJ Open. 12, 7, e055061.

Navigating the Unseen City: Town Planners, Architects, Ophthalmic Professionals, and Charity Opinions on Navigating of the Built Environment with a Visual Impairment

Cushley, L. N., Galway, N., Curran, K. & Peto, T., 14 Jun 2022, (Early online date) In: *International Journal of Environmental Research and Public Health*. 19, 12, 17 p., 7299.

Diabetic retinopathy screening in the WHO European Region: plans for development, barriers and facilitators: A survey of professional associations and key informants Preliminary findings for consultation

Broadbent, D. M., Cohen, S., Curran, K., Harding, P. S. P., Peto, T., Vazquez-Arango, P., Losada, M. L., Farrington, J. & Berdzuli, N., 29 Oct 2021, *Diabetic retinopathy screening in the WHO European Region: plans for development, barriers and facilitators (2021)*. World Health Organization, p. 1 36 p.

Disorganisation of Inner and Outer Retinal Changes in participants with Diabetic Macula Oedema (DMO): The RELIGHT Study

Jamison, C., Hamill, B., Muldrew, A., Curran, K., Peto, T., Chakravarthy, U. & Team, RELIGHT., 29 Oct 2021.

A retrospective analysis of factors affecting attendance at the Northern Ireland Diabetic Eye Screening Programme in young people with diabetes aged 12-26

Cushley, L., Curran, K., Wen, Q., Bell, A., McCance, D., Graham, U. & Peto, T., 28 Oct 2021.

Diabetic Retinopathy Screening Programme: Attendance, Barriers and Enablers amongst Young People with Diabetes Mellitus Aged 12–26 Years

Cushley, L. N., Curran, K., Quinn, N. B., Bell, A., Muldrew, A., Graham, U. M., McCance, D. R., Wen, Q. & Peto, T., 22 Sept 2021, In: *International Journal of Translational Medicine*. 1, 3, p. 154-162

Capturing the clinical decision-making processes of expert and novice diabetic retinal graders using a 'think-aloud' approach

Curran, K., Congdon, N., Peto, T., Dardis, C., Nguyen, Q. N., Hoang, T. T., Bannon, F., Luu, A. P., Mai, T. Q., Nguyen, V. T., Nguyen, H. T., Tran, H. T. T., Tran, H. H. & Lohfeld, L., 10 May 2021, (Early online date) In: *Eye*.

Inclusion of Diabetic Retinopathy Screening Strategies in National Level Diabetes Care 1 Planning in Low and Middle-Income Settings: Protocol for a Scoping Review

Curran, K., Piyasena, P., Congdon, N., Duke, L., Malanda, B. & Peto, T., 18 Sept 2020, In: *BMJ Open*. 10, 5 p., e038647.

Abstract: The clinical decision-making processes of expert and novice diabetic retinal graders

Curran, K., Congdon, N., Peto, T., Dardis, C., Mai, T., Nguyen, V., Tran, H., Nguyen, Q., Hoang, T. & Lohfeld, L., 26 Jun 2020, *World Ophthalmology Congress*. (World Ophthalmology Congress).

The clinical decision-making thought processes of expert and novice diabetic retinal graders using a 'Think-aloud' approach

Curran, K., Lohfeld, L., Congdon, N., Hoang, T. T., Dardis, C., Tran, H., Nguyen, V. T. & Peto, T., 13 Dec 2019.

Introduction to a National Diabetic Eye Screening Programme (DESP) in Vietnam: Fundamental first steps

Dardis, C., Curran, K., Peto, T. & Tran, H., 09 Dec 2019, (Accepted).

How to help new diabetic retinal graders think and respond like experts when grading fundus photographs

Mohan, K., Lohfeld, L., Dardis, C., Congdon, N., Peto, T. & Orbis Vietnam, 02 May 2019.

Developing a comprehensive model of diabetic eye screening programme in Vietnam: EASDec conference, Belfast May 2018

Mohan, K., Dardis, C., Lohfeld, L., Congdon, N., Peto, T. & Tran, N., 2018, In: *European Journal of Ophthalmology*. p. 35 1 p.

Activities

Sleep quality in people with Visual Impairment (Patient and Public Involvement talk)

Katie Curran (Speaker)
25 Nov 2023

Efficacy of Adalimumab for the treatment of noninfectious uveitis in a real world setting.
Katie Curran (Examiner)
07 Mar 2023

Improving Diabetic retinopathy screening using Telemedicine and artificial intelligence. A portfolio of 3 projects
Katie Curran (Examiner)
07 Mar 2023

Diabetes Self-Management Alliance 6th International Conference
Laura Cushley (Participant) & Katie Curran (Participant)
21 Nov 2022 → 22 Nov 2022

UK BIOBANK RETINAL IMAGING GRADING: METHODOLOGY, BASELINE CHARACTERISTICS AND FINDINGS FOR COMMON OCULAR DISEASE
Katie Curran (Advisor)
28 May 2022

32nd Meeting of the European Association for the Study of Diabetic Eye Complications
Katie Curran (Participant)
26 May 2022 → 28 May 2022

Optometry Northern Ireland (ONI) (External organisation)
Katie Curran (Advisor)
11 May 2021

College of Optometrists (External organisation)
Katie Curran (Contributor)
06 May 2021 → ...

College of Optometrists (External organisation)
Katie Curran (Advisor)
23 Mar 2021

Diabetic Eye Screening: The Vietnam & Bangladesh Experience
Katie Curran (Speaker)
10 Mar 2021

The Brilliant Club
Katie Curran (Contributor)
01 Mar 2021 → ...

Women in Vision UK Annual Conference 2020
Katie Curran (Advisor)
11 Dec 2020

So why do people not attend screening: learning from Bangladesh and Northern Ireland?
Katie Curran (Speaker) & Laura Cushley (Speaker)
10 Oct 2019

Northern Ireland Public Health Agency
Katie Curran (Advisor)
19 Jun 2019 → 23 Oct 2019

NI Science Festival 2019
Katie Curran (Participant)
17 Feb 2019

Prizes

Poster winner at Women in Vision Conference, Belfast
Curran, Katie (Recipient), 13 Dec 2019

Presentation winner at Postgraduate Research Symposium, QUB
Curran, Katie (Recipient), 17 May 2019

Press/Media

Edible EyeArt in Belfast
Katie Curran
06/04/2021
1 Media contribution

Eye care in NI: "We are fearful that patients will come to the hospital late"
Katie Curran & Tunde Peto
22/12/2023
1 Media contribution

Reaching Out to Overcome Diabetic Eye Disease in the Philippines
Recivall Salongcay, Tunde Peto & Katie Curran
01/01/2022
1 Media contribution

Speakers for Schools - One Year On Celebration Event
Katie Curran
29/09/2022
1 Media contribution

Student theses

Building capacity for diabetic eye screening and management in low-middle income countries: A mixed-methods approach
Author: Curran, K., Jul 2021
Supervisor: Congdon, N. (Supervisor), Peto, T. (Supervisor) & Lohfeld, L. (Supervisor)