

Diabetes UK Professional Conference 2025
26-28 February 2025, SEC Glasgow

29 November 2025

Dear Professor Dubey

Re:

DIABETIC PERIPHERAL NEUROPATHY ASSESSMENT AND MANAGEMENT SYSTEM OVER MOBILE PHONES

We are delighted to inform you that the above abstract (a copy of which is attached below) has been accepted for a **poster presentation** at the Diabetes UK Professional Conference 2025.

Your poster presentation details are:

Poster number: P241
Presenting author: VN Dubey
Poster category: Neuropathy
Poster presentation time: Thursday 27th February 10.30 - 11.15

For poster presentation guidelines please click [here](#).

You may wish to consider looking at our [Presenting with impact guide](#) which provides useful hints and tips for making your presentation more engaging. We also encourage you to consider [Language Matters](#) when producing your presentation. [Editorial guidelines](#) are also available.

The conference has dedicated poster attendance sessions built into the programme and authors are expected to attend their poster(s) at the time indicated above.

Displaying your poster(s)

- **All non-science posters (P107-P341) and encore posters (E1-E12)** for the conference must be put up before the end of morning break (11.50) on Wednesday, 26 February 2025 and should remain on display until the end of the poster session at 13.45 on Friday, 28 February 2025.

If you are not attending the conference from Wednesday and will be unable to display your poster between these times then please approach a co-author or colleague to display the poster by 11.50 Wednesday, 26 February 2025.

- **Science posters (P1-P106)** must be on display by the start of the poster session (10.30) on Thursday, 27 February 2025 and should remain on display until the end of the poster session at 13.45 on Friday, 28 February 2025.

If you are not attending the conference on Wednesday or Thursday and will be unable to display your poster between these times then please approach a co-author or colleague to display the poster by 10.30 Thursday, 27 February 2025.

- It is the responsibility of the presenter to ensure that their poster is available to be viewed between these times.
- Please note that all odd numbered posters will be presented on Thursday 27 February at 10:30 – 11.15, and all even numbered posters will be presented on Friday 28 February at 13.00 – 13.45.
- Please note that the Exhibition Hall closes at 14.30 on Friday, 28 February 2025 and **posters must be removed by that time**. Posters that are not reclaimed one hour after the Exhibition Hall closes will be taken down and may be destroyed. Should you have any enquiries relating to your poster at the conference, please go to the General Enquiries Desk in the registration area.

Note that as indicated in the submission guidelines, failure to present an accepted abstract at the conference – as outlined above – will lead to the abstract being removed from publication and may lead to the presenting author receiving a one-year ban from submitting and presenting abstracts for the Diabetes UK Professional Conference 2026. This will be monitored closely by the Conference Organising Committee.

Abstract funding and conflict of interest

Please be reminded that as part of the Diabetes UK Professional Conference abstract submission guidelines you are required to clearly state the source(s) of any funding for your abstract and state any conflict of interest as part of your presentation(s).

Registration

Abstract authors selected for oral, oral award, poster award, facilitated poster or poster presentations should note that they **must** register

for the conference. Registration can now be completed [online](#). Please be aware that the early bird registration deadline is **Friday, 20 December 2024 at 5pm**.

Conference grants

We are delighted to offer a limited number of conference grants, of up to £200, to presenting authors of accepted abstracts. Should you wish to apply, you will need to be a Professional Member of Diabetes UK to be eligible and can also benefit from reduced registration rates. You can find out more about professional membership and join [here](#).

To apply for a conference grant, please register for the conference, making a note of your reference number before applying for a conference grant. You will also need to have a verification letter from your Head of Department/Manager before commencing your grant application. A sample letter is available via the application form. If you require assistance, please contact the [Diabetes UK Conference team](#). The deadline for conference grant applications is **Friday, 20 December 2024 at 5pm**. For the conference grant application form, click [here](#).

Press

If you have indicated that your abstract is suitable for publicity in the lay press, the Diabetes UK Press and/or Research teams may be in contact with you directly to discuss this further. Your abstract will be published in a supplement of Diabetic Medicine which will be released at 8am, Wednesday 26 February 2025 via the conference website. A limited number of hard copies of the supplement will be available at the conference in the Poster Area.

Should you have any queries relating to your abstract presentation, please do not hesitate to contact Aimee Jackson at Hg3 Conferences (events@hg3.co.uk) or myself.

We look forward to seeing you at SEC Glasgow for the Diabetes UK Professional Conference.

With regards

Nathan Smith
Senior Conference Organiser
Diabetes UK
Email: nathan.smith@diabetes.org.uk

361

VN Dubey*, TF Hickish, P Holi, T Rassem, P Howard-Jones, J Cole, T Hickish, S Jindal, S Savage, D Sharman

Aims: The objective of this research is to create mobile phone based neuropathy diagnosis system to reduce the burden on patients visiting hospitals and to free-up consultation time for clinicians and allowing self-monitoring of neuropathy by patients.

Methods: We present the methodology of calibrating mobile phones with neurothesiometer for assessment of peripheral neuropathy. This may serve as continuous monitoring of neuropathy with low-cost and easily accessible mobile devices as an alternative to the gold standard. The process involves quantification and analysing the vibration characteristics of neurothesiometer and transferring this data through mobile phone apps for secured and graduated assessment of neuropathy.

Results: The data shows good correlation between mobile phone readings and those measured with neurothesiometer for stand-alone operations of mobile phones for neuropathy assessment. Results indicate that the application is reliable and provides accurate and repeatable data using mobile phones. These findings confirm our calibration process for a viable solution for peripheral neuropathy assessment using mobile applications and this also uses additional features of mobile phones to collect patient data and securely transferring to hospitals.

Conclusions: This paper presented creation of a user-friendly, accessible screening method for diabetic neuropathy including progression tracking and neuropathy assessment. Currently patients are required to visit hospitals several times for neuropathy assessment. This research provides an economical, portable, and accurate way of screening diabetic peripheral neuropathy using smartphones. The test results indicated that the mobile device performs comparably well to the gold-standard neurothesiometer.