DEPARTMENT OF PRIMARY CARE & POPULATION HEALTH

Supporting women to manage gestational diabetes and prevent future risk of type 2 diabetes

Findings from the ELOPE-GDM interview study



[•]UCL

Welcome

• Research team:

• Dr Shoba Poduval, Dr Jamie Ross & Dr Amanda Moore (UCL)

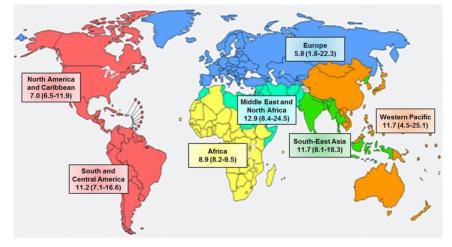
• Agenda for today's event:

- 13.00 13.05: Diabetes in pregnancy and background to the study
- 13.05 13.15: Introduction to Cambridgeshire Community Services involvement
- 13.15 13:45: Research findings
- 13.45 13.50: A participant perspective
- 13.50 14.10: Public & community input
- 14.10 14:20: Q & A
- 14.20 14.30: Close





Gestational diabetes is a key point to intervene



35,000 UK pregnancies/year

- Risk factors:
 - Ethnicity
 - Increased BMI
 - Maternal age
 - Social deprivation
- Implications:
 - Risk to mother and child
 - Increased risk of type 2 diabetes & metabolic conditions



- 50% type 2 diabetes later
- Lifestyle management is the cornerstone of care in pregnancy and postpartum





Aims and methods

Explore factors influencing engagement with GDM selfmanagement & lifestyle guidance during pregnancy and beyond amongst a diverse sample of UK women

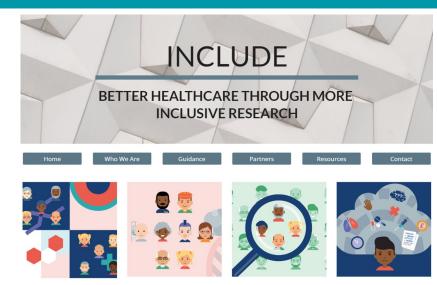
• Semi-structured interviews online and face-to-face (Nov 22-Mar 23)

- - Thematic analysis (Braun & Clarke, 2006)
 - Data sessions with stakeholders to validate interpretations



Inclusivity





Examples of under-served groups:

- Women of childbearing age
- Ethnic minority groups
- Educational disadvantage
- Socioeconomically disadvantaged/unemployed./low income
- Language barriers

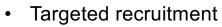
Barriers:

- Poor publicity
- Lack of incentives
- Lack of interest
- Negative attitudes to research

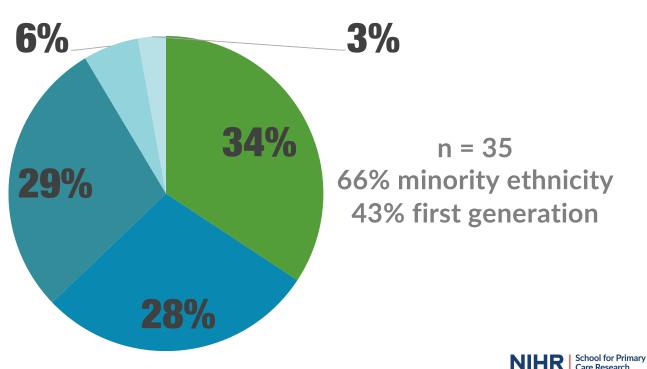
https://www.nihr.ac.uk/about-us/our-key-priorities/under-served-communities.htm



Inclusivity



- Relationship building
- Accessibility
- Sharing findings through a range of outputs
- White British/Other
- Black African/ Black British
- S. Asian/Asian British
- SE Asian/Asian British
- Mixed race



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Introducing CCS and their role in the study

Katherine Vale, Cambridge Community Services NHS TRUST



Getting involved with ELOPE-GDM

- Why our Health Visitors felt the study was important to support at CCS
- How we invited our families to join the study
- The challenge of language barriers in research, and our hope for future research

What did women say? Our headline findings

UCL

Dr Amanda Moore, UCL



Overview



- Increased anxiety
- Loss of control of their plans
- Loss of enjoyment of pregnancy
- Driven to do the best for the baby

Image: Second self-managementImage: Second self-managementImage: Second self-managementImage: Second self-managementImage: Second self-managementImage: Second self-managementSecond self-managementSecond self-managementSecond self-management



Pregnancy... GDM selfmanagement

Theme 1: The burden

- Cognitive burden of practical management
- Guilt & culpability
- Loss of control
- For the baby you find a way

always having to think about food, it becomes completely invasive...set an alarm test your sugars, you've got to time everything (14-WB)

I was put on metformin two days after I was given my test kit...they could have given me a chance to look at my diet. I hadn't had a dietitian appointment by that time... I didn't really have a voice. I feel like my voice wasn't heard'. (10-SA) Horrendous. It's horrendous, yes. Like, it's so emotive I think for a woman to feel like what she is eating is potentially damaging her unborn child. I was trying really hard to control it....you still feel like, "Yes, I haven't done enough." (3-WB)

Theme 2: Coping with everyday

- Social & cultural influences on lifestyle behaviours
- External pressures
- Pregnancy pressures

I stopped recording, stopped checking all the time... they said you don't do it this way. Why did you stop recording? That's not how we can follow good treatment. I did have quite a lot on my mind at that time, that was the least thing on my mind. (26-BA) We are Bengali people, we eat more rice...your mum she teach you how to just eat rice, rice, rice. Like in the morning rice! lunch rice! dinner rice ! snacks rice! All the thing in mainly carb and in Bangladesh we eat our dinner night-time like 10 O'clock, 11 O'clockso take your dinner before 7...? (24-SA)

Theme 3: Retaining power

- Seeking peer support
- Taking control

I've made a spreadsheet, I make little plots it has the date the timepoint, what I've eaten... (13-WB)

I requested the doctor, could he refer me the dietitian. That time the doctor told me it could be quite long because there is a long queue. I said I don't mind but I wanted to because I wanted to control this diabetes. (24-SA) That's what the Facebook group is doing, it's people who have gone through the experiences, helping each other. [...] That's what you need support in everything you are doing. More than a half and hour chat midway through your pregnancy. [...] The fact that Facebook pages are being set up to try and support mothers suggests there's a gap. (3-WB).

Theme 4: Relational factors

- Positive reinforcement and empathy
- Judgement and pressure

....why did you eat two pieces of toast? You should have eaten one. I remember that because I felt so bad, like I was being greedy (3-WB)

I'll be honest I lied about my numbers sometimes, I'm not going to lie. Because I thought they didn't give me that care and so why should I? But what I didn't understand is that it is affecting the baby. (34-SA) I loved the head of my team, she was just calm and nice. She would talk to you about it, she would make you playful but at the same time very serious. She was just amazing, and when she called me on the phone she talks to you like this. And because I'm Black, maybe you don't have many people talk like that or treat me [like that]. My accent is quite heavy right? She would listen to me even if I have to say it 5 times. She will really take her time and check I understand, without feeling agitated. (35-BA).

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Theme 5: Service provision

- Education was inconsistent across the sample
- Technology & remote support
- Universal guidance

I thought it was really poor...the kind of NHS typical eat a low fat, healthy plate diet. [...] I always remember them saying for a snack you might want to eat two satsumas... I think I switched off at that point, it was like ok you're talking nonsense. (14–WB)

'I would say I didn't have much information on the Indian stuff, I had to go to YouTube.' (4-SA) **GDm-Health App (used by 37%)** ...A major help ...Really cleverAn efficient way to communicate

It was helpful because you could just see it without having to think about what did I eat the other day. Especially if I did not remember what spiked my sugars. It was just easy to just kind of go back and look at it (19-BA).

Postpartum...diabetes risk reduction



Theme 5: Left at sea

- Dramatic contrast with close monitoring during pregnancy
- Confusion of messages from different healthcare teams
- Confusion in personal risk
- No concrete picture: uncertainty and confusion over what to do next
- Falling through the cracks It's up to you
- Low awareness of annual screening (46%)

After [I gave birth] I heard nothing about the diabetes. [...] I heard before that it tends to go away straight after birth, so I kind of figured it was gone. I didn't monitor or check it. They didn't say anything else after, like if I should monitor it myself or whatnot. So – there was no information given after birth (27-South Asian)

NIHR School for Primary Care Research

Theme 3: Life gets in the way

- Social challenges and lack of social support (worse for immigrant women & socially disadvantaged)
- Competing responsibilities of childcare and mothering
- Health challenges pre-existing & from pregnancy
- Work loads on the pressure.
- GP needs to be my partner

I think I've got some post-natal depression and really crippling anxiety [...] It's a lot of pressure, a lot of stress and where I live is not a family-friendly zone either. I've had issues with the noise from my neighbours and stuff... it's affected my sleep, my stress levels, constant banging on the walls and doors at 3 and 4 in the morning. It's really disrupted my sleep (WB-15)







Implications for policy & practice...?

Implications for policy & practice

GDM in pregnancy

The burden

Coping with everyday

Taking control

Relational factors

Service provision

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Clinical Practice

- Use language carefully empathy with balanced risk assessment
- Give advice earlier to those with risk factors
- Recommend the use of GDM apps
- Signpost to more detailed dietary support for those who need more detail or further cultural support
- Signpost to peer support
- Link to community groups to provide culturalspecific support
- Research, intervention & service development
- Develop more detailed NHS online dietary resources
- Consider community-delivered support for those needing it (Cultural or socioeconomic)



Implications for policy & practice

Postpartum diabetes risk

Left at sea

Life gets in the way



Clinical Practice

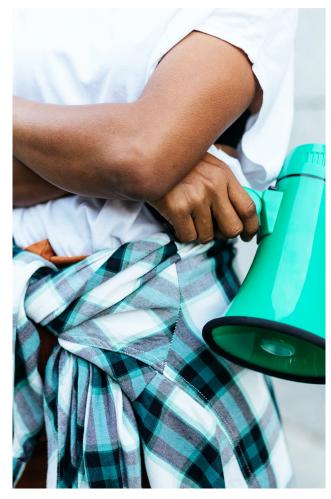
• Ensure midwife teams & health visitors give consistent discharge messages

- Streamline postpartum post-GDM check with existing care pathways when possible
- Text reminders for HbA1C screen
- Sign-post to simple clear resources
- Flag on system and use touchpoint conversations after 1 year postpartum
- Research, intervention & service development
 - Development of stratified risk calculator
 - Development of inclusive online resource for me information.
 - Developing community services to support disadvantaged women & those with cultural barriers to care.
 NIHR School for Primary Care Research

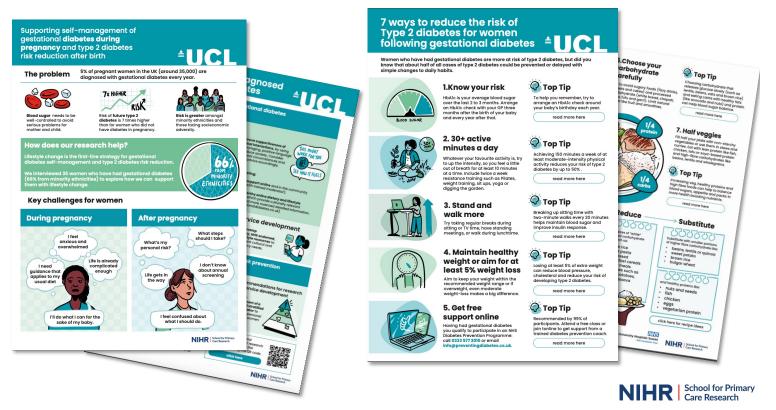
Next steps



Dissemination and more information



- Infographic development
- Study findings
- Postpartum guidance in partnership with Sussex NHS Trust



Next steps



Dissemination and more information



- Infographic development
 - Study findings
 - Postpartum guidance in partnership with Sussex NHS Trust
- Conferences
- SAPC, HSR, RCOG 2023
- 2 academic papers
 - Thematic analysis
 - Behavioural analysis
- Updates on the UCL study web-site
 - Lay summary
 - Resources
 - Presentations
 - Academic outputs



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Thoughts from one of our contributing interviewees

I wanted to help improve experiences of other women with GDM, to help them by sharing my experiences. I think it's great you are taking the time to understand how women feel.

Getting involved was easy, supportive and fun. The interview I had was professional, informative and empathetic....I liked it!

DCL

Getting involved in research

Dr Jamie Ross, QMUL



Involvement in research – You help do it!

- The aim is to do research 'with' people rather than 'about' people
- People who are affected by certain health issues are 'experts by experience'
- They possess a wealth of knowledge that researchers do not have
- Their expertise can help make research better



How PPI was incorporated into the ELOPE- GDM study

- Who
- Two PPI representatives recruited at the very start of the project
- Both women with recent experience of GDM
- How
- Gave their input into the research questions and protocol (how we proposed to do the study)
- Helped to devise and refine the questions we asked of the research participants in the interviews
- Shared ideas on where to recruit participants from
- Provided insights from their lived experience of GDM into our analysis of the interview data
- Advised on the best way to make the findings relevant to other people impacted by GDM



Reflections on participation

Being diagnosed with GDM can be a worrying experience, at a time when many women are already experiencing significant stress, and there is a lot of confusion and misinformation about what it means, both for women and their pregnancies...I don't think it would be possible to reduce the lifetime risk without involving patients and understanding what matters to them in order to make lasting positive lifestyle changes.

"Having been diagnosed with GDM in my second pregnancy, the opportunity to contribute to research into the condition was **something that really mattered to me.**

(ELOPE study PPI member)



If researchers get it right the public can benefit from research in a number of ways....



Make a difference to future health and social care research

Helps people who have had a difficult health experience do something positive with it To ensure the voice of their community/communities are represented in research





Find it interesting

To develop new skills

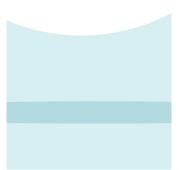


How can the public be involved in research?

• Examples of public involvement activities may include:

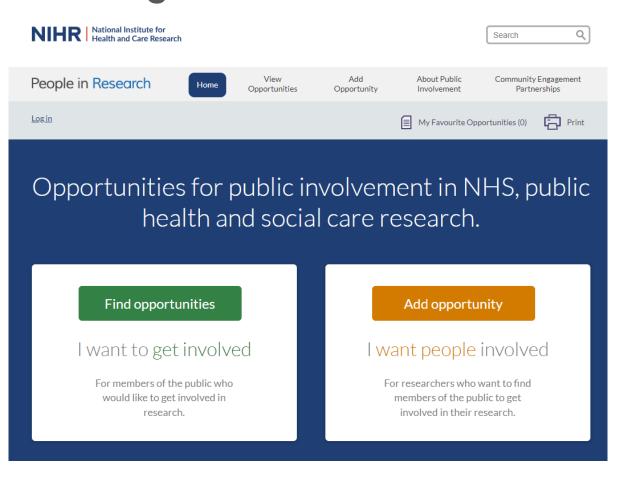


- Helping to decide what will be researched
- Being involved in developing grant applications
- Providing input into the design of studies
- Being members of study steering committees
- Working with researchers to develop patient information materials
- Undertaking interviews with research participants
- Carrying out research as user and/or carer researchers





How to get involved



https://www.peopleinresearch.org



How to get involved

• Queen Mary University of London

PPI opportunities sign up form

https://forms.office.com/e/J3zsHU70B2





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Example PPI opportunities

- Panel member for reviewing research funding applications
- Digital health research study
- Early onset type 2 diabetes
- Asthma
- COPD



How to get involved

University College London PPI opportunities

public.advisors@ucl.ac.uk

Dr Sarah Griffiths & Dr Tom Whitney

