

Views on provision of personalised cancer risk information: a qualitative interview study with members of the public

Juliet Usher-Smith¹, Barbora Silarova², Artitaya Lophatananon³, Robbie Duschinsky¹, Jackie Campbell⁴, Jo Warcaba⁵, Ken Muir³

¹The Primary Care Unit, University of Cambridge, ²MRC Epidemiology Unit, University of Cambridge, ³Institute of Population Health, University of Manchester,

⁴Institute of Health and Wellbeing, University of Northampton, ⁵Nene and Corby Clinical Commissioning Groups.

Contact: jau20@medschl.cam.ac.uk

Background

- Nearly 600,000 cancer cases in the UK could have been avoided in the past 5 years if people had healthier lifestyles.
- Many theoretical models of behaviour suggest that before people will change health behaviours they must accept a risk applies to them.
- Providing people with personalised information about their future risk of cancer may help promote behaviour change.

Aim

- To explore the views of members of the public on receiving personalised cancer risk information based on family history and lifestyle factors.

Methods

- Face-to-face semi-structured interviews with members of the public recruited from GP practices and a patient participation group in Cambridge.
- Risk questionnaire completed prior to interview.
- Risk of developing the most common cancers (10 for women and 8 for men) estimated using published risk models¹ adapted for the UK population for this study using risk factor prevalence data and age specific cancer incidence and all-cause mortality data².
- Risk presented during interview using web-based tool (Figure 1).
- Interview schedule covering views on:
 - Receiving risk of cancer generally
 - Potential for motivating behaviour change
 - Where, when and how such information should be provided.
- Analysed using thematic analysis.

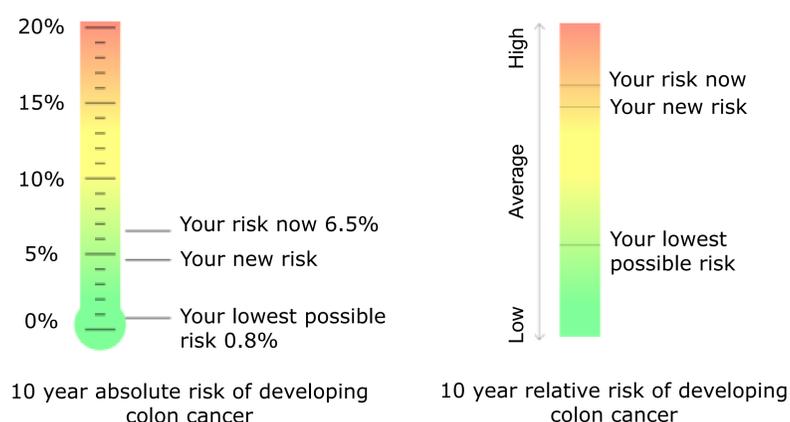


Figure 1. Examples of the formats of risk presentation

Results

- 27 members of the public took part

Sex	
Male	11
Age	
20-29	4
30-39	10
40-59	5
>60	8

Results

- Participants generally viewed the concept of personalised cancer risk positively and were keen that it be provided more widely.
- When presented with 10 year absolute risk on a grey scale almost all felt it was low and not concerning.

"I think it's very low. It's 1.32% compared with the 10% of cardiovascular, and considering the random effect of cancers, I think, it makes me feel good."

- Views on what would be 'high' risk ranged from 0.5% to 60%. Over half were unclear why they had chosen a particular number.
- When presented in colour, the colour was often more important than the number and comparison to others was helpful.

"..it is more motivating to be able to say, "I want to be really low risk compared to everyone else", as opposed to, "I want my percentage number to be lower"."

- All felt seeing the impact of changes in lifestyle on their risk was powerful. For some this led to intentions to change behaviour but it was not always motivating.

"I could get it down to absolutely zero if I lived as a hermit,..... if my risk factor was very high, I would probably do something about it, but because it's so low then I probably wouldn't. There, that's my balance."

- There were mixed views about whether to provide the information face to-face or online but many felt that it needed to be endorsed by the GP to provide credibility.

Conclusions

- Provision of personalised cancer risk information was well received and may be a useful adjunct to other cancer prevention initiatives.
- Further work is needed in particular to address the disparity between typical risk estimates and the general perception of what constitutes a risk high enough to motivate change.