



UNIVERSITY OF LEEDS

This is a repository copy of *Patient Perspectives on the Burden and Prevention of Diabetes-Related Foot Disease*.

White Rose Research Online URL for this paper:

<https://eprints.whiterose.ac.uk/199090/>

Version: Supplemental Material

---

**Article:**

Crowley, B, Drovandi, A [orcid.org/0000-0002-8682-1218](https://orcid.org/0000-0002-8682-1218), Seng, L et al. (3 more authors) (2023) Patient Perspectives on the Burden and Prevention of Diabetes-Related Foot Disease. *The Science of Diabetes Self-Management and Care*, 49 (3). 217 -228. ISSN 2635-0106

<https://doi.org/10.1177/26350106231170531>

---

© The Author(s) 2023. This is an author produced version of an article published in *The Science of Diabetes Self-Management and Care*. Uploaded in accordance with the publisher's self-archiving policy.

**Reuse**

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

**Takedown**

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing [eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk) including the URL of the record and the reason for the withdrawal request.



[eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk)  
<https://eprints.whiterose.ac.uk/>

**Table 1.** Characteristics of participants with a previous history of DFD (n=80).

<b>Sex (n, %)</b> Female / Male	31 (38.8%) / 49 (61.3%)
<b>Age (years)</b> Mean (SD) / Range	65.1 (13.0) / 24-88
<b>Indigenous Status (n, %)</b> Aboriginal Torres Strait Islander Aboriginal and Torres Strait Islander Non-Indigenous	15 (18.8%) 3 (3.8%) 2 (2.5%) 60 (75.0%)
<b>Rurality of Residence (MMM)</b> Metropolitan Regional Rural Remote	4 (5.0%) 60 (75.0%) 12 (15.0%) 4 (5.0%)
<b>Social Advantage and Disadvantage (IRSAD)</b> Mean (SD) / Range	967 (39) / 876-1081
<b>Duration with Diabetes (years)</b> Mean (SD) / Range	18.0 (11.5) / 0-49
<b>Smoking Status (n, %)</b> Never-smoker Current smoker Ex-smoker Cigarettes per day (mean, SD) Years smoked (mean, SD)	30 (37.5%) 15 (18.8%) 35 (43.8%) 18 (12) 24 (14)
<b>Previous DFD complications (n, %)*</b> Foot ulcer Foot infection Gangrene Peripheral artery disease Lower-limb amputation	57 (71.3%) 38 (47.5%) 10 (12.5%) 14 (17.5%) 29 (36.3%)
<b>Times Hospitalised for DFD (n, %)</b> None Once Twice Three times More than three times	26 (32.5%) 14 (17.5%) 13 (16.3%) 8 (10.0%) 19 (23.8%)
<b>Perceived interference of DFD with life (n, %)</b> Not at all (1) A little (2) Somewhat (3) A bit (4) A lot (5)	18 (22.5%) 5 (6.3%) 24 (30.0%) 4 (5.0%) 29 (36.3%)

\* Participants could select multiple responses to indicate complications experienced, so percentages do not add up to 100%. DFD = Diabetes-Related Foot Disease; IRSAD = Index of Relative Advantage and Disadvantage; MMM = Modified Monash Model

**Table 2.** Perceived concern for experiencing the complications of diabetes-related foot disease (n=79).

<b>Perceived concern for complications of diabetes-related foot disease</b>	<b>Least concerning</b>	<b>Not very concerning</b>	<b>Somewhat concerning</b>	<b>Quite concerning</b>	<b>Most concerning</b>
Foot ulcer	8 (10.1%)	2 (2.5%)	6 (7.6%)	9 (11.4%)	54 (68.4%)
Hospital admission	12 (15.2%)	2 (2.5%)	11 (13.9%)	10 (12.7%)	44 (55.7%)
Foot infection	5 (6.3%)	2 (2.5%)	3 (3.8%)	9 (11.4%)	60 (75.9%)
Foot gangrene	10 (12.7%)	2 (2.5%)	4 (5.1%)	4 (5.1%)	59 (74.7%)
Toe amputation	9 (11.4%)	2 (2.5%)	1 (1.3%)	5 (6.3%)	62 (78.5%)
Leg amputation	9 (11.4%)	1 (1.3%)	2 (2.5%)	2 (2.5%)	65 (82.3%)

Data are presented as number (percentage). One participant omitted to answer these questions.

**Table 3.** Perceived importance of measures aimed at preventing diabetes-related foot disease (n=79).

<b>Perceived importance of measures to prevent diabetes-related foot disease</b>	<b>Not at all important</b>	<b>Not very important</b>	<b>Somewhat important</b>	<b>Quite important</b>	<b>Very important</b>
Regularly wearing shoes specifically designed to protect the feet	2 (2.5%)	4 (5.1%)	8 (10.1%)	7 (8.9%)	58 (73.4%)
Regularly taking prescribed medications	2 (2.5%)	1 (1.3%)	6 (7.6%)	6 (7.6%)	64 (81.0%)
Wearing any footwear to protect the feet	8 (10.1%)	2 (2.5%)	13 (16.5%)	12 (15.2%)	44 (55.7%)
Seeing a health professional for foot checks	1 (1.3%)	0	6 (7.6%)	8 (10.1%)	64 (81.0%)
Checking the feet regularly	3 (3.8%)	1 (1.3%)	10 (12.7%)	5 (6.3%)	60 (75.9%)
Someone else checking the feet regularly	8 (10.1%)	11 (13.9%)	9 (11.4%)	7 (8.9%)	44 (55.7%)
Minimising activity on the feet	14 (17.7%)	9 (11.4%)	25 (31.6%)	13 (16.5%)	18 (22.8%)
Receiving information from health professionals on how to protect the feet	3 (3.8%)	5 (6.3%)	10 (12.7%)	10 (12.7%)	51 (64.6%)

Data are presented as number (percentage). One participant omitted to answer these questions.

**Table 4.** Questions about the use of specially designed footwear and methods to improve use of footwear (n=78).

	<b>Never</b>	<b>A little</b>	<b>Some of the time</b>	<b>Usually</b>	<b>All of the time</b>
How often do you wear specially designed footwear to protect the feet?	18 (23.1%)	2 (2.6%)	19 (24.4%)	12 (15.4%)	27 (34.6%)
<b>What would make wearing specially designed footwear more likely for you?</b>	<b>Strongly disagree</b>	<b>Disagree</b>	<b>Somewhat agree</b>	<b>Agree</b>	<b>Strongly agree</b>
Information about the benefit of wearing the footwear	9 (11.5%)	6 (7.7%)	18 (23.1%)	16 (20.5%)	29 (37.2%)
Availability of free or low-cost footwear	5 (6.4%)	3 (3.8%)	5 (6.4%)	9 (11.5%)	56 (71.8%)
Ability to determine the appearance of the footwear	6 (7.7%)	9 (11.5%)	10 (12.8%)	16 (20.5%)	37 (47.4%)
Ability to be fitted with footwear close to home	7 (9.0%)	8 (10.3%)	8 (10.3%)	13 (16.7%)	42 (53.8%)
A program to assist in regularly wearing protective footwear	14 (17.9%)	7 (9.0%)	14 (17.9%)	16 (20.5%)	27 (34.6%)

Data are presented as number (percentage). Two participants omitted to answer these questions.

**Table 5.** Perceptions of technology for foot care and access to technology (n=78).

	<b>Not acceptable at all</b>	<b>A little acceptable</b>	<b>Somewhat acceptable</b>	<b>Acceptable</b>	<b>Very acceptable</b>
How acceptable is it if your health provider interacted with you using technology to help manage foot care and protect your feet?	10 (12.8%)	4 (5.1%)	22 (28.2%)	6 (7.7%)	36 (46.2%)
	<b>Not confident at all</b>	<b>A little confident</b>	<b>Somewhat confident</b>	<b>Confident</b>	<b>Very confident</b>
How confident are you with using technology such as a smart phone/computer?	23 (29.5%)	7 (9.0%)	16 (20.5%)	6 (7.7%)	26 (33.3%)

Data are presented as number (percentage). Two participants omitted to answer these questions.

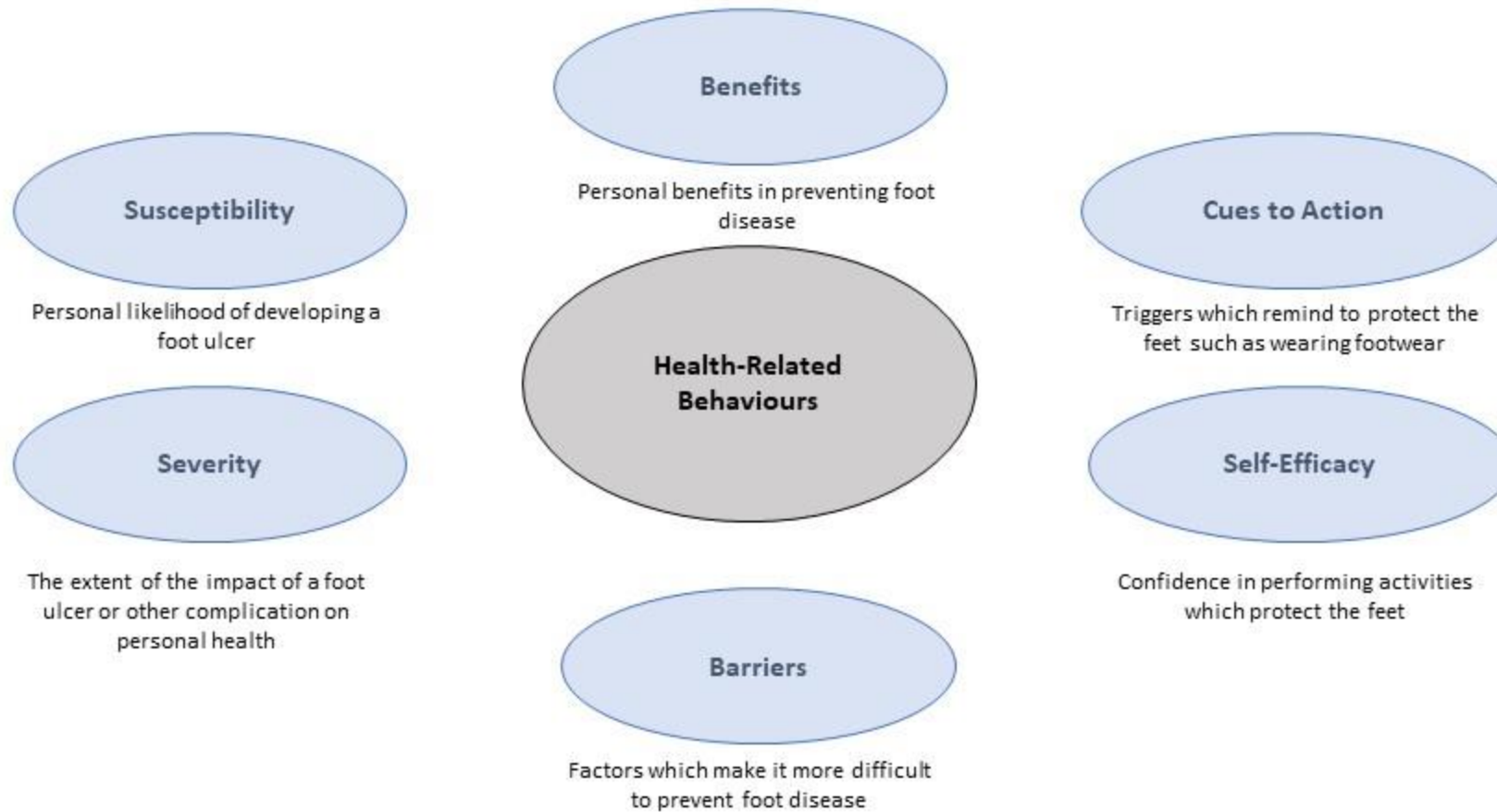


Figure 1. The six key elements of the Health Belief Model, the perceptions of which contribute to health-related behaviours, including an example of each element relevant to diabetes-related foot disease.