Risk assessments and structured care interventions for prevention of foot ulceration in diabetes: development and validation of a prognostic model

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Plain English summary

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People with diabetes sometimes have problems with their feet that can become serious and make getting around harder and life less enjoyable. We have developed a test based on a simple score to find out a person’s risk of getting a foot ulcer. We also wanted to know how often the test needs to be done.

People who have been tested and learn that they might go on to have foot problems rightly expect to be given treatment that stops the problem happening in the first place. In this project, we read many written reports about the best treatments to prevent foot ulcers. We found that some things can prevent foot ulcers, such as wearing special shoes and insoles, taking the temperature of the skin of the foot and resting when the temperature rises, and receiving specialist care from diabetes foot care teams. However, we also looked at the costs of the test and treatments and found that some treatments are better value for money than others.

By using people’s health data from NHS computers, we discovered that very few people with diabetes develop a worse risk score for foot ulcers as time goes on, and it seems that being tested every year is not necessary for everyone. New clinical trials might help to improve foot health for people with diabetes, but if all of the researchers who have collected data from people in clinical trials shared their data it would be possible to find out more about who will gain most from these treatments without spending a lot on new research. It is clear that better input of patients’ health data into NHS computers will benefit diabetes research in the future.
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This report

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