Randomised controlled trial of silk therapeutic garments for the management of atopic eczema in children: the CLOTHES trial

Kim S Thomas,1* Lucy E Bradshaw,2 Tracey H Sach,3 Fiona Cowdell,4 Jonathan M Batchelor,1 Sandra Lawton,5 Eleanor F Harrison,2 Rachel H Haines,2 Amina Ahmed,6 Taraneh Dean,7,8 Nigel P Burrows,9 Ian Pollock,10 Hannah K Buckley,11 Hywel C Williams,1 Joanne Llewellyn,5 Clare Crang,9 Jane D Grundy,12 Juliet Guiness,10 Andrew Gribbin,11 Eileen V Wake,4 Eleanor J Mitchell,2 Sara J Brown13,14 and Alan A Montgomery2 on behalf of the UK Dermatology Clinical Trials Network’s CLOTHES trial team

1Centre of Evidence Based Dermatology, University of Nottingham, Nottingham, UK
2Nottingham Clinical Trials Unit, University of Nottingham, Queen’s Medical Centre, Nottingham, UK
3Health Economics Group, Norwich Medical School, University of East Anglia, Norwich, UK
4Faculty of Health Education and Life Sciences, Birmingham City University, Birmingham, UK
5Nottingham University Hospitals NHS Trust, Queen’s Medical Centre, Nottingham, UK
6Patient and public involvement representative, Nottingham, UK
7Faculty of Science, University of Portsmouth, Portsmouth, UK
8Research and Enterprise, University of Brighton, Brighton, UK
9Cambridge University Hospitals NHS Foundation Trust, Addenbrooke’s Hospital, Cambridge, UK
10Royal Free London NHS Foundation Trust, Barnet Hospital, Barnet, UK
11Portsmouth Hospitals NHS Trust, Queen Alexandra Hospital, Cosham, UK
12Isle of Wight NHS Trust, St Mary’s Hospital, Newport, UK
13Skin Research Group, University of Dundee, Dundee, UK
14Department of Dermatology, Ninewells Hospital and Medical School, Dundee, UK

*Corresponding author kim.thomas@nottingham.ac.uk
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Plain English summary

Eczema is a common childhood skin condition that impacts on quality of life as a result of symptoms such as itchiness, sore skin and impaired sleep. Patients are often keen to find non-drug treatments for eczema. Some small studies had suggested that specialist silk clothing might help to improve the symptoms of eczema, but larger, well-designed studies are needed to be sure of these results.

The CLOTHing for the relief of Eczema Symptoms (CLOTHES) Trial tested whether or not silk clothing could reduce the severity of eczema in children aged > 6 months. A total of 300 children, aged 1–15 years, with moderate to severe eczema, took part. A computer was used to decide whether the children received silk clothing plus usual eczema care (moisturisers and topical corticosteroids) or usual care alone. Children in the clothing group were asked to wear silk tops and leggings as often as possible, day and night, for 6 months. Weekly questionnaires and visits to the nurse at 2, 4 and 6 months were used to assess the impact of the clothing.

Three hundred children took part in the study. Most of the children taking part were aged < 6 years, and three-quarters had previously seen a hospital doctor about their eczema. The silk garments were worn for at least half of the time by 82% of the trial participants. We found no difference between the two groups for nurse-assessed eczema severity, use of topical corticosteroid creams, number of skin infections or quality of life. Wearing the clothing did not reduce the number of visits to the doctor for their eczema, or the use of eczema medications.

Overall, the trial suggested that specialist silk clothing is not a useful treatment for eczema in children and does not represent good value for money.
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