



Prevention of occupational hand eczema among Danish hairdressing apprentices

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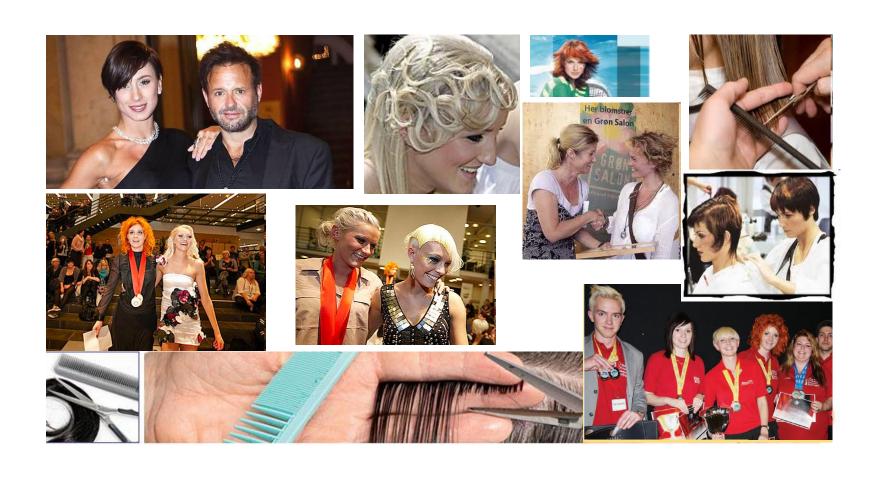
The dream of becoming a hairdresser...





Faculty of Health Sciences

The dream of becoming a hairdresser...





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42 % of educated Danish hairdressers have ever had hand eczema



- •71% were apprentices at hand eczema onset
- 44 % no longer worked in the trade
- Those who left, were 8.4 years in the trade





Occupational skin diseases

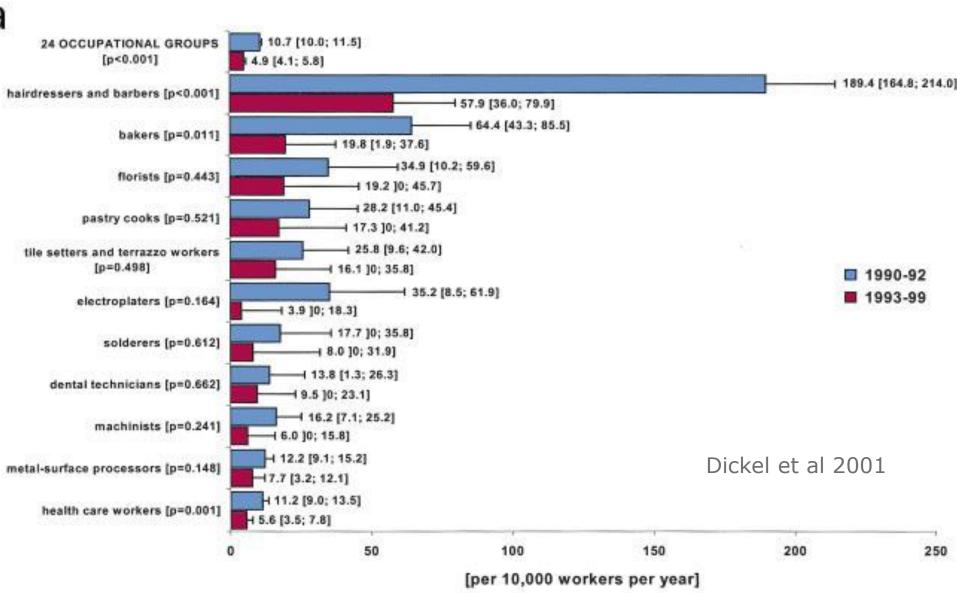
Definition: A skin disease caused or aggravated by work conditions

- 90 95 % of all cases comprises hand eczema
- Hairdressers is one of the most frequent occupations reporting occupational skin diseases
- High impact on the individual and on society

Skoet R et al, Contact Dermatitis 2004 Diepgen TL et al, Int Arch Occup Environ Health 1999

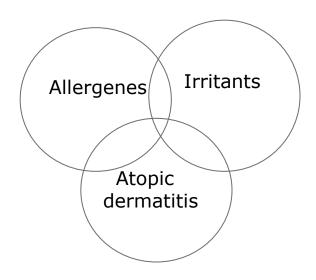


Incidence rates of cases with an Occupational Skin disease within occupational groups



Hand eczema

Polymorphic pattern: erythema, scaling, vesicles, oedema, papules and fissures









First day at hairdressing school



	Hairdressing apprentices (n=374)	Other young people (n=1277)	Р
Hand eczema Lifetime prevalence	8.0% (30)	12.5% (159)	0.009
Eczema on wrists Lifetime prevalence		11.9% (149)	<0.001
Atopic dermatitis	21.4% (80)	29.8% (381)	0.001

Hairdressers have less atopic dermatitis and less eczema comparred to the reference group



Apprentices at hairdressing schools



What was the goal?









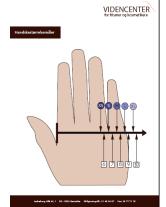


The education programme

We developed an education programme in cooperation with the teachers from the intervention schools

- Power point presentations
- Groupwork
- Glove size measure
- Hand outs
- Usefull links
- Pamphlet
- Products
- Nickel test
- Contact to the salons











Students glove use after 1½ year in hairdressing school

Students of educated teachers (n=147)

Students of "ordinary" teachers (n=136)

Shampooing school 70.7 %

46.3 %

Bleaching

89.8 %

77.2 %

Bregnhøj et al. 2012





Eczema in the cohort of hairdressers apprentices after 1½ year

Students of educated teachers

Students of

"ordinary" teachers

% (n/total)

% (n/total)

Hand eczema

After 1½ year education

20.4% (30/147)

29.4% (40/136)

Hand eczema and eczema on wrists or forearms

After 1½ year education 21.8% (32/147)

33.8% (46/136)

5.3%

Outcome of the education programme

- In the intervention group compared with the control group
- Decreased time with wet hands
- Increased time with glove use
- Increased glove use in high exposure procedures
- Increased glove use in the salons
- Decreased incidence of hand eczema

Bregnhøj et al 2012



I hope this gets the hairdressers' dreams come true...

