

Occupational accidents and occupational muscular skeletal diseases in hairdressers – an analysis of German insurance data



Albert Nienhaus



Outline

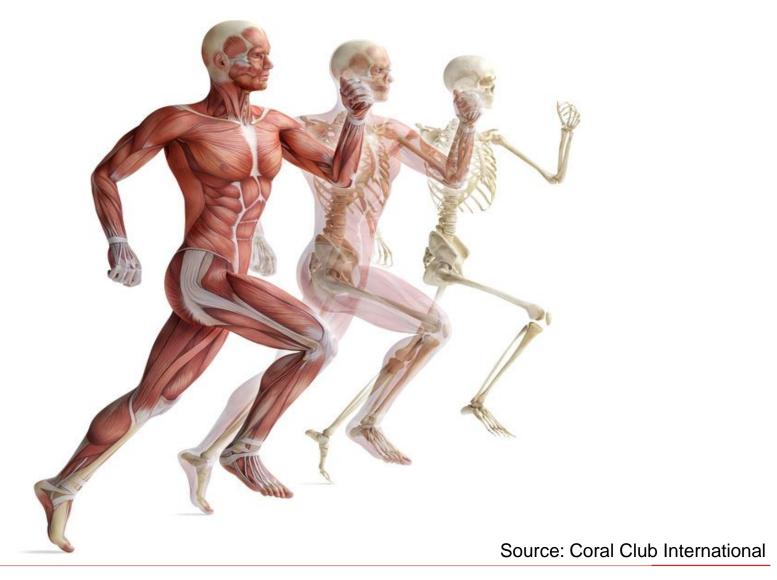
- Introduction Centre of Excellence for Health Services Research for Healthcare Professionals (CVcare)
- 2. Data from Statutory German Accident Insurance (BGW)
 - workplace & work-related traffic accidents
 - suspected occupational diseases

CVcare Centre of Excellence for Health Services Research for Healthcare Professionals





Introduction - MSD burden



Grandparents, Parents, Children



Prevalence of MSD increases with age

Socio-economic factors

- Social class
- Age
- Education
- Labour status/unemployment

Work-related factors

- Trade sector
- Overload/incorrect loading
- Psychosocial stress
- Lack of gratification
- Work dissatisfaction
- Lack of social support

Psychological factors

- Depressive disorders
- Fear or anxiety
- Stress, family pressures

Behavioral factors

- Physical inactivity
- Malnutrition and malnourishment
- Tobacco use

Structural factors

Potential tripping hazards

Physical constraints/ pre-existing conditions

- Overweight / obesity
- Sport injuries
- Accidents
- Impairment of senses

Health competence

Low health awareness

Work related disease and occupational disease

Work related disease:

- Exposure at work is one of severl other factors causing the disease.

Occupational disease

- The disease is mentioned on a list of the government.
- It is likely that the disease would not have been occured without the exposue at work

MSD as occupational disease (OC) in Germany

- Disc degeneration of the lumbar spine due to heavy lifting and bending forward for more than 90°
- Disc degeneration of the neck due to carrying customers
- Arthrosis of the knee due to kneeling and crowing
- Problems of tendons and tendons sheath due to new, unaccustomed strenuous work
- Carpel tunnel syndrome due to repetitive movements, inclinations and forceful work of wrist

Conclusion: Most MSD as OC do not apply for hairdressers



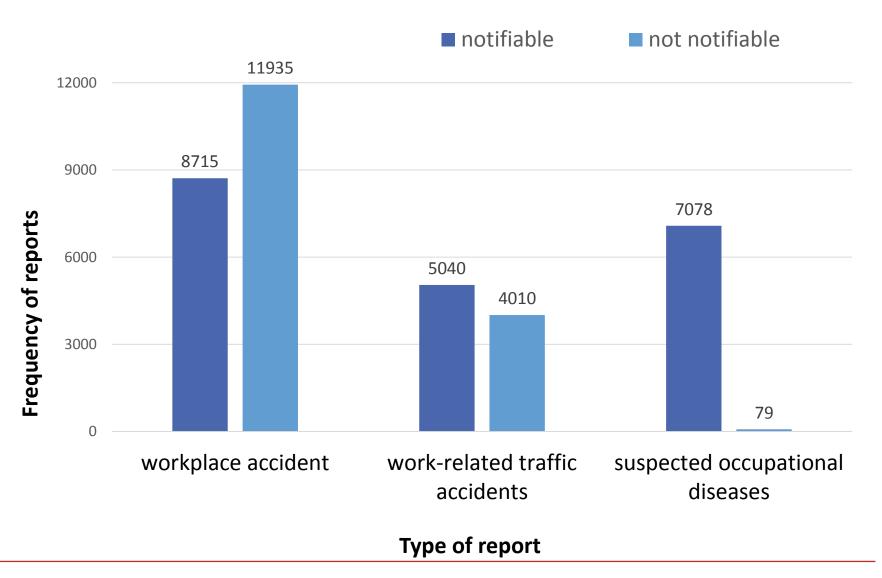
2. Data on hairdressers from Statutory Accident Insurance

Routine data from Institution for Statutory Accident Insurance and Prevention in the Health and Welfare Services (BGW)

- 1. Workplace accidents
- 2. Work-related traffic accidents
- 3. Occupational diseases



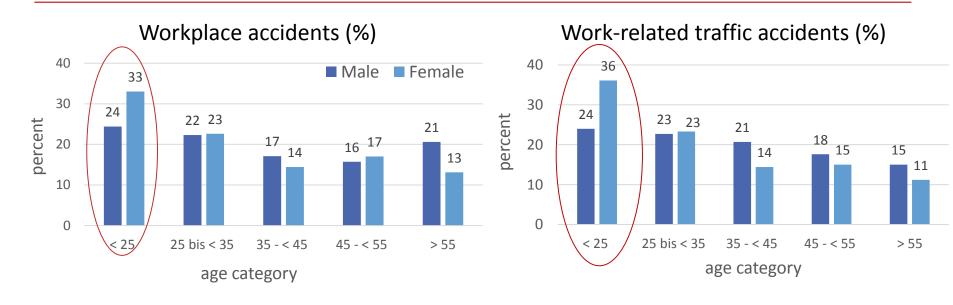
Reported incidents for the years 2012-2016 in hairdressing



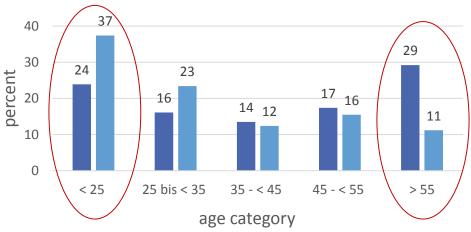
Number per 1.000 workers of workplace / work-related traffic accidents and occupational diseases

	1. workplace accidents			ated traffic dents	3. suspected occupational diseases		
year	hair- dressers	all insured	hair- dressers	all insured	hair- dressers	all insured	
2012	7.7	15.3	3.4	4.3	7.1	2.7	
2013	7.9	15.2	3.3	4.6	6.6	2.7	
2014	7.6	15.8	2.9	4.2	6.4	2.7	
2015	7.6	15.7	4.2	4.3	5.8	2.8	

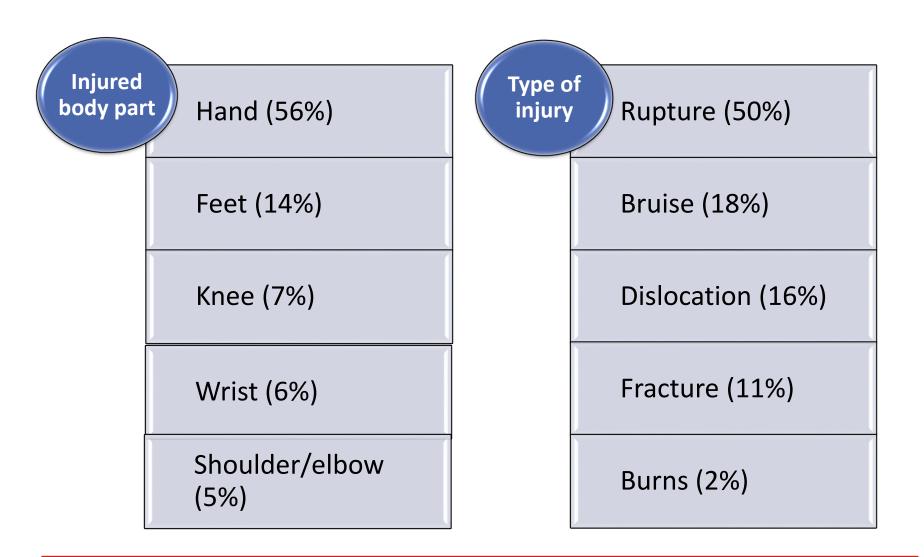
Incident statistics startified by age and gender







Workplace accidents – injured body part & type of injury



Accident circumstances (60% happened in the salon)

Action which lead to an accident	%
1. Moving (e.g. walking, running, go up or down)	38
2. Working with hand tools	26
3. Driving or go with a vehicle	20
4. Manual handling (grabbing, holding something)	11
5. Other (e.g. carrying loads)	6

Reported suspected occupational diseases (2012-2016) MSD – TOP 3

Croup of diagona		Total (9/)					
Group of diseases	2012	2013	2014	2015	2016	Total (%)	
1. Skin disease	1.071	1.056	932	819	733	4.611 (67)	
2. Respiratory disease	266	241	216	207	179	1.109 (16)	
3. Musculoskeletal disorders	104	94	82	105	113	498 (7)	
4. Chemical influences	47	45	60	39	43	234 (3)	
5. Dusts and exogenous allergic substances	4	3	6	8	9	30 (<1)	
6. Infectious agents	1	3	0	0	2	6 (<1)	
7. Other (noise-induced hearing loss)	99	67	74	67	55	362 (5)	
Total	1.592	1.509	1.370	1.245	1.134	6.850 (100)	

Type of the suspected occupational MSD

Type of MSD	%
1. Diseases of the back and spine [cervical disc shifts; low-back-pain, other protrusion]	59
2. Diseases of the upper extremities [epicondylitis, tenosynovitis, shoulder diseases, periarthritis of the hand, carpal tunnel syndrome, rhizarthrosis]	33
3. Diseases of the lower extremities [gonarthrosis, injury of knee joints]	8

→ Only **10** suspected cases with MSD were confirmed as occupational disease

3. Data from three health insurance companies in GER (2011) MSD – TOP 1

Health insurance companies	IKK Classic		AOK Bayern		IKK Nord	
No. of hairdressers	29,646 (%)	All (%)	18,167 (%)	All (%)	4,029 (%)	All (%)
1. MSD	21	26	16	23	21	25
2. Injuries/Poisoning	14	13	12	14	15	24
3. Respiratory diseases	11	16	15	11	14	13
4. Psychological diseases	11	9	10	10	12	9

Conclusion

- Hairdressing is not accidents prone
- Following German law MSD in hairdressers is seldom recognized as an occupational disease

MSD is a frequent cause of absence from work

Thank you for your attention

Contact:

Prof. MD Albert Nienhaus

Mail: a.nienhaus@uke.de

Phone: +49 40-7410-59707

Center of Excellence for Epidemiology and Health Services Research for Healthcare Professionals (CVcare)

