

Electrical Injury:

Prevention, exposure, pathology, clinical aspects, treatment and follow-up

STAMI – The National Institute of Occupational Health, Oslo, Norway 18 – 20.4.2023

	Tuesday, 18.4.2023			
Acute reactions, and some chronic effects				
10.00 – 10.30	Course registration and coffee			
10.30 - 11.00	Introduction Scope and purpose of the course Presentation of participants			
11.00 - 11.30	What is an electrical injury Incidence, exposure characteristics and definitions, injury mechanisms. Acute, chronic, latent injury. Individual vulnerability and risk of injuries.	Bo Veiersted Lars Ole Goffeng		
11.30 – 12.00	Acute effects and reactions - an overview Skin/burns, heart, nervous system, muscular, psychological reactions, traumatic/fall	Bo Veiersted		
12.00 - 12.45	Acute treatment of electrical burns Practice at department of plastic surgery and burns, Haukeland Hospital, Bergen	Ragnvald Ljones Brekke		
12.45 – 13.30	Lunch break			
13.30 – 14.30	Acute neurological injuries and mechanisms Acute effects after exposure to electrical current. Why and how effects develop over time.	Lisa Rådman Martin Tondel		
14.30 – 15.00	Acute muscular symptoms and reactions "Now or never" – or later?	Bo Veiersted		
15.00 – 15.30	Short break			
15.30 – 16.00	Acute psychological/traumatic reactions	Lars Ole Goffeng		



16.00 – 16.45 Electrical accidents and heart complications
Acute effects and risk for later arrhythmias
Acute medical follow-up
Experiences and current recommendations

18.30 – 21.00 Social program: Dinner at Restaurant Ludo
Vibes gate 11a, 0365 Oslo, Norway

	Wednesday, 19.4.2023	
	Long-term health, research	
08.30 – 09.00	Chronic and long-term effects – an introductory overview	Bo Veiersted Lars Ole Goffeng
09.00 - 10.45	Electrical accidents in Denmark Recent epidemiological studies in electricians and general population. How much and how dangerous? How some get symptoms and others not, by "similar" accidents. Prognosis.	Karin Biering
10.45 – 11.15	Short break	
11.15 - 12.00	Chronic neurological injuries after electrical current Long-term effects and delayed nerve injury	Lisa Rådman
12.00 - 12.45	Chronic Psychological effects of electrical accidents	Sara Thomée
12.45 – 13.30	Lunch break	
13.30 – 14.00	Secondary injury prevention I - Reducing injury consequences Relevance of acute treatment medical examination and reports for long-term health effects and compensation or insurance considerations Acute phase prognostic signs of long-term outcome Implications for follow-up?	Lars Ole Goffeng
14.00 – 14.30	Secondary injury prevention II - Long-term coping Follow-up of chronic and long-term effects. "Focal training"/exercise, vs. "Compensation"/alternative behavioral or cognitive approach	Lars Ole Goffeng
14.30 – 14.45	Short break	
14.45 – 15.45	Group work a) Criteria for acute medical follow-up in emergency ward? b) What shall be examined, or subject to follow-up?	



- c) Patient-/risk communication:
 - What do patients know and expect from medical staff?
 - What should the patient doctor dialogue emphasize?
 - How should patients be met or informed?
- d) How do we prevent accidents? Introductory thoughts on primary prevention.

15.45 – 16.30 Plenum. Presentation and discussion

17.15 – 22.00 Social program: Street art tour of Oslo, dinner at Nedre Foss Gård

17.15 Bus from Thon Hotel Gyldenløve (Bogstadveien 20, 0355 Oslo) to Rosenhoffgata 28, 0569 Oslo 17.30 Guided tour of Oslo's street art with a local street artist 19.15 Dinner at Nedre Foss Gård, Nordre gate 2, 0551 Oslo

22.00 Bus back to Thon Hotel Gyldenløve

Thursday, 20.4.2023				
Accident prevention				
08.30 – 09.15	Primary prevention strategies – Introduction and overview How to prevent accidents: Legislative, organizational/structural, psychosocial: relational/communication, individual, and technical/practical approaches	Lars Ole Goffeng		
09.15 – 10.00	 Legislative approach to accident prevention interventions: Legislation DSB/AT, Standardization NEK/IEC, REN Qualifications and specifications Safety training courses/Teaching Equipment design/Technical considerations 	Robert Krahl		
10.00 – 10.15	Short break			
10.15 – 11.45	Understanding organizational, social and individual driving forces for safe and unsafe behaviour as a basis for designing and implementing effective safety interventions - The significance of why humans act the way we do, for design and implementation of safety interventions.	Marianne Törner		
11.45 – 12.30	 Practical/technical safety approach Experience based, "at work". Electrical safety in education and for young electricians/apprentices 	Lars Jacob Berg		
12.30 – 13.15	Lunch			
13.15 – 14.30	Recommendations regarding follow-up - Who may benefit from follow-up?	All		



How to prevent or reduce injury consequences – a general perspective taking into consideration integration of exposure information, anamnestic information, acute reactions of prognostic value, and long-term effects

- Where do we get information? Focus on primary interview, where should we start?

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14.30 – 14.45	Short break	
14.45 – 15.30	 Discussion, conclusion, summary Need for harmonization of treatment of injured? Should national recommendations for follow-up of victims be introduced? Closing of the course 	All