

Rationalities in Accident Reporting

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Safety Culture and Reporting Practice on Danish Ships in Danish International Ships Register (SADIS)



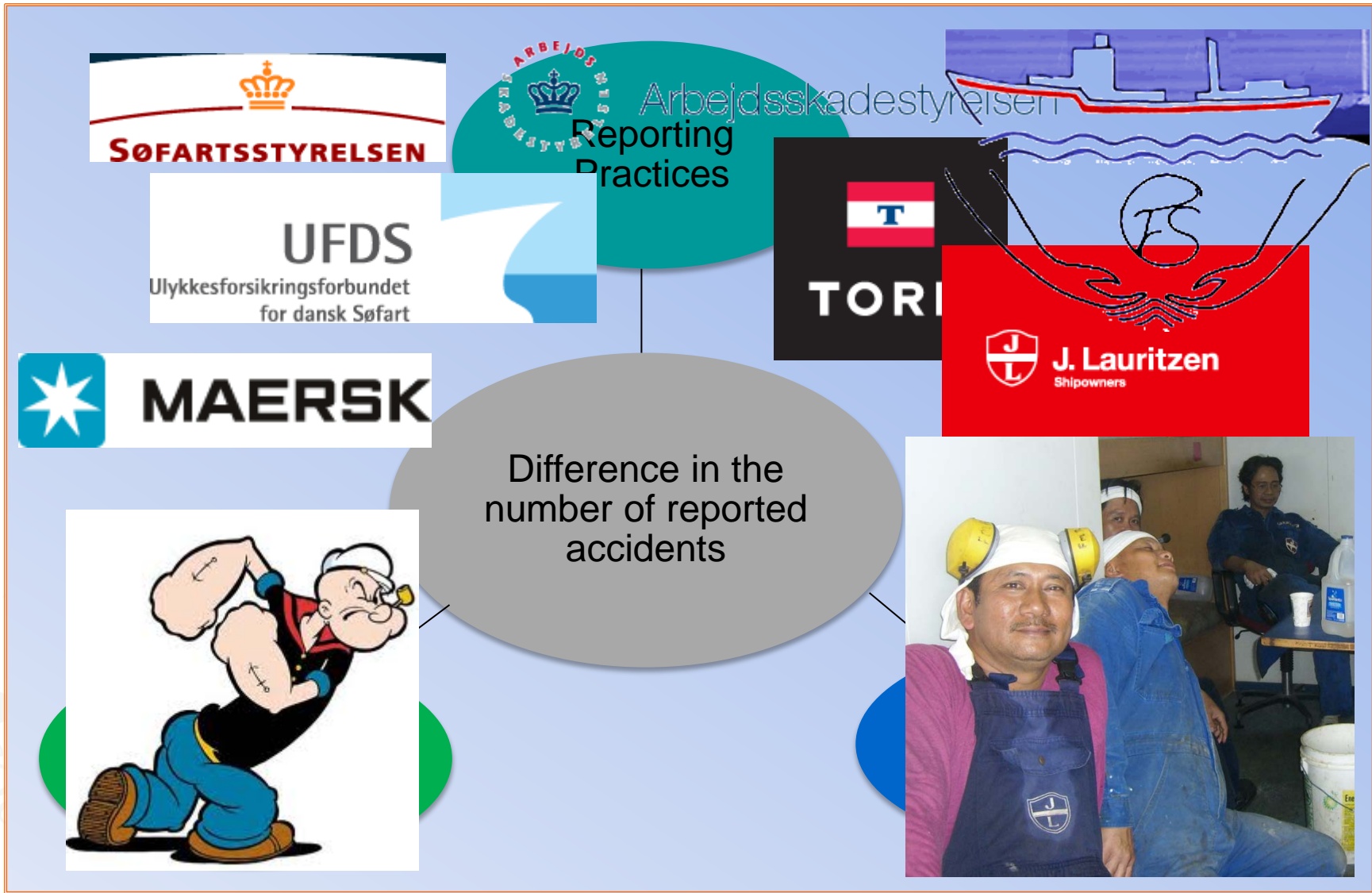


The puzzling background of SADIS

Nationality of injured seafarers	Total number of identified accidents	Time at risk	Accident rate per 1.000 years at sea	Crude IRR	Adjusted IRR (95% CI)
West Europeans	321	3038	106	1	1
East Europeans	73	820	89	0.84 (0.65-1.09)	0.65 (0.50-0.85)
South East Asians	68	1670	41	0.39 (0.30-0.50)	0.29 (0.22-0.38)
Total	462	5528	84		

Incidence of accidents and adjusted IRR aboard Danish cargo ships in international trade in 2003 among different nationality categories. Only accidents which could be merged with a specific employment are included. The adjusted IRR includes adjustment for ship size, charge and age.

(Hansen et al, International Maritime Health, 2008, vol. 59)





Theoretical inspiration

'Communities construct safety from the heterogeneous materials of cultural referents, artifacts, rules, and constraints that originate inside and outside the formal boundaries of the organisation'

(Gherardi and Nicolini, The organisational Learning of Safety in Communities of Practice, *Journal of Management Inquiry* 2000, 9:7)



Data

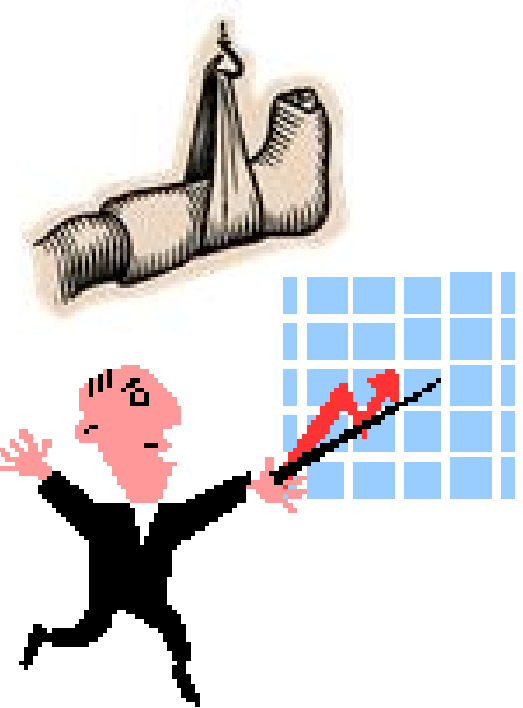
- **333 reported accident forms - 9 months**
- **From the Maritime Authorities and Radio Medical**
- **10 interviews with key persons**
- **43 interviews with seafarers**





Purposes of reporting work accidents

- **Compensation**
- **Surveillance**
 - Company
 - National
 - International
- **Comparison and competition**
- **Learning and prevention**





A form

D – Hændelsesforløb

Beskriv:

hvilken handling tilskadekomne udførte i ulykkesøjeblikket, og evt. hvilket redskab eller maskine som blev anvendt,

hvilken hændelse, der førte til skaden, og evt. hvilket redskab, maskine eller byrde det gik galt med,

hvilken måde skaden skete på, og evt. hvilket redskab, maskine eller byrde, som var årsag til skaden.

Stedet for ulykkes-hændelsen:	Dæk <input type="checkbox"/>	Opholdsrum <input type="checkbox"/>	Kabys <input type="checkbox"/>	Rig/mast/kran <input type="checkbox"/>	I land <input type="checkbox"/>	Andet <input type="checkbox"/>	Hvor var skibet?
	Lastrum <input type="checkbox"/>	Maskinrum <input type="checkbox"/>	Tank <input type="checkbox"/>	Tilgangsveje <input type="checkbox"/>	Udenbords <input type="checkbox"/>		I søen <input type="checkbox"/> På red <input type="checkbox"/> Ved kaj <input type="checkbox"/>

E – Oplysninger om skaden og dens følger/virkninger

Skadens art (sæt kun ét kryds):

- | | |
|--|--|
| 01 <input type="checkbox"/> Bløddelsskade (slag, blå mærker) | 09 <input type="checkbox"/> Truende kvælning, drukning |
| 02 <input type="checkbox"/> Hjernerystelse og indre kvæstelser | 10 <input type="checkbox"/> Forgiftning |
| 03 <input type="checkbox"/> Sårskade | 11 <input type="checkbox"/> Varme- og kuldeskade |
| 04 <input type="checkbox"/> Mistet legemsdel | 12 <input type="checkbox"/> Ætsning |
| 05 <input type="checkbox"/> Åbent knoglebrud | 13 <input type="checkbox"/> Strålepåvirkning |
| 06 <input type="checkbox"/> Lukket knoglebrud | 14 <input type="checkbox"/> El-chok |
| 07 <input type="checkbox"/> Forskydning af led | 15 <input type="checkbox"/> Kvæstelse ikke konstateret |
| 08 <input type="checkbox"/> Forstuvning, forvridning, forstrækning | 16 <input type="checkbox"/> Andet (beskriv nedenfor) |

Skadet del af legemet (sæt kun ét kryds):

- | | |
|--|--|
| 01 <input type="checkbox"/> Hoved undtagen øjne | 09 <input type="checkbox"/> Hånd, håndrod |
| 02 <input type="checkbox"/> Øjne | 10 <input type="checkbox"/> Fingre, en eller flere |
| 03 <input type="checkbox"/> Hals | 11 <input type="checkbox"/> Hofteled, lår, knæskal |
| 04 <input type="checkbox"/> Ryg, ryggrad | 12 <input type="checkbox"/> Knæled, underben, knyster |
| 05 <input type="checkbox"/> Brystkasse, brystorganer | 13 <input type="checkbox"/> Fod, ankel |
| 06 <input type="checkbox"/> Bug, bugorganer | 14 <input type="checkbox"/> Tæer, en eller flere |
| 07 <input type="checkbox"/> Skulder, overarm, albueled | 15 <input type="checkbox"/> Omfattende dele af legemet |
| 08 <input type="checkbox"/> Underarm, håndled | 16 <input type="checkbox"/> Andet (beskriv nedenfor) |

= A patchwork of intentions and rationalities



Compensation

'Scavang cleaning of main engine. Continous work in an awkward position.' (Lumbago)

'Hansen woke up feeling pain. Injured person has perhaps been sleeping in an awkward position or done an awkward movement. No heavy work prior to the incident'. (back pain)



PPE

‘Mounting insulation material before closing door to boiler in engine room. Ventilation caused some of the insulation material to get into his eyes. He was wearing the right eye goggles, but they did not fit his nose properly.’





Blame

‘The injured person was carrying out grinding in cargo hold with an angle grinding machine. The IP was performing grinding work using the angle grinder. He was grinding on the cell guide for app 20 min and then suddenly he lost con(trol?). Even though he was familiarized with the angle grinder, still he failed to use the angle grinder appropriately. ‘





CMA

‘On the 16th May at approximately 09.15 the 3rd engineer was overhauling deck sealing ...pump. When completed the 3rd engineer started the pump for checking it was running ok, and by unfortune occurence he got his left index finger inside too close to the running shaft. Unfortunately there were no witnesses’



Rationalities in reported accidents

- **Medical**
- **Legal**
- **The Risk & Safety toolbox**
- **Reporting on dissatisfaction with colleagues**





UFDS

Ulykkesforsikringsforbundet
for dansk Søfart

Arbejdsskadenstyrelsen



TORN

A – Tilskadekomne

Navn:



E – Oplysninger om skaden og dens følgerikninger

Skadens art (sæt kun ét kryds):

- | | |
|--|---|
| 01 <input type="checkbox"/> Bløddelsskade (slag, blå mærker) | 09 <input type="checkbox"/> Truende kvælning, druknir |
| 02 <input type="checkbox"/> Hjernerystelse og indre kvæstelser | 10 <input type="checkbox"/> Forgiftning |
| 03 <input type="checkbox"/> Sårskade | 11 <input type="checkbox"/> Varme- og kuldeskade |

**'Continuous work in an
ackward position'.**

**'Still he failed to use the
angle grinder appropriately.'**

**He was wearing the right
eye goggles, but they did
not fit his nose properly.'**



D – Hændelsesforløb

Beskriv:

hvilken handling tilskadekomne udførte i
ulykkesøjeblikket, og evt. hvilket redskab
eller maskine som blev anvendt,



So we have...

- **A network of actors and communities of practice?**
- **Or a battlefield of actors and communities of practice?**

There seems to be some ground for confusion about the purpose of reporting.





Thank you

And remember to see the sequel!