

# Skin and lung diseases among Norwegian industrial painters

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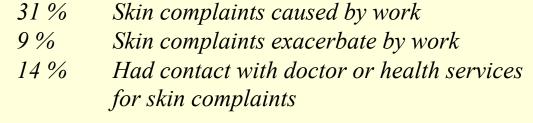
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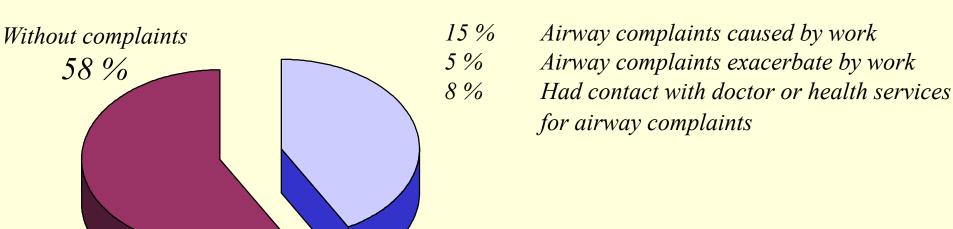


### **Paint volume 1997-2000**

Year	Volume	Epoxy	Polyurethane	Others
	(1000 liter)	(%)	(%)	(%)
1997	816	66	15	19
1998	1029	67	12	21
1999	666	66	9	25
2000	413	61	9	30

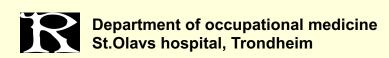
## Skin- or airways complaints in work





With complaints

42 %



#### **Cohort**

- Six firms
- ~ 1200 industrial painters
- Age: 36 years
- Mean workpractise as industrial painters: 10 years

# **Incidence (1997-2001)**

• Occupational asthma:

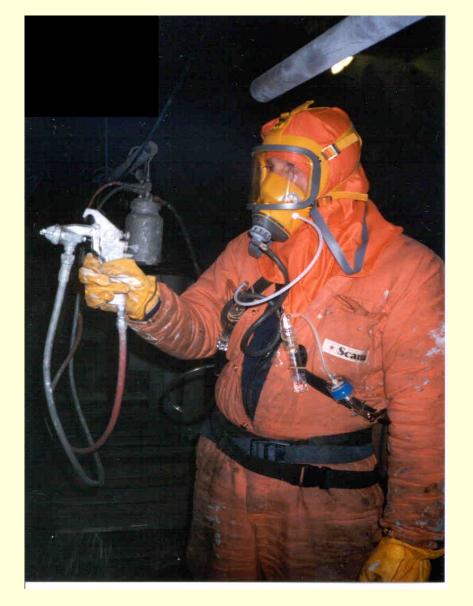
6 workers

⇒ 1,1 cases pr 1000 personyears

• Allergic exzemas:

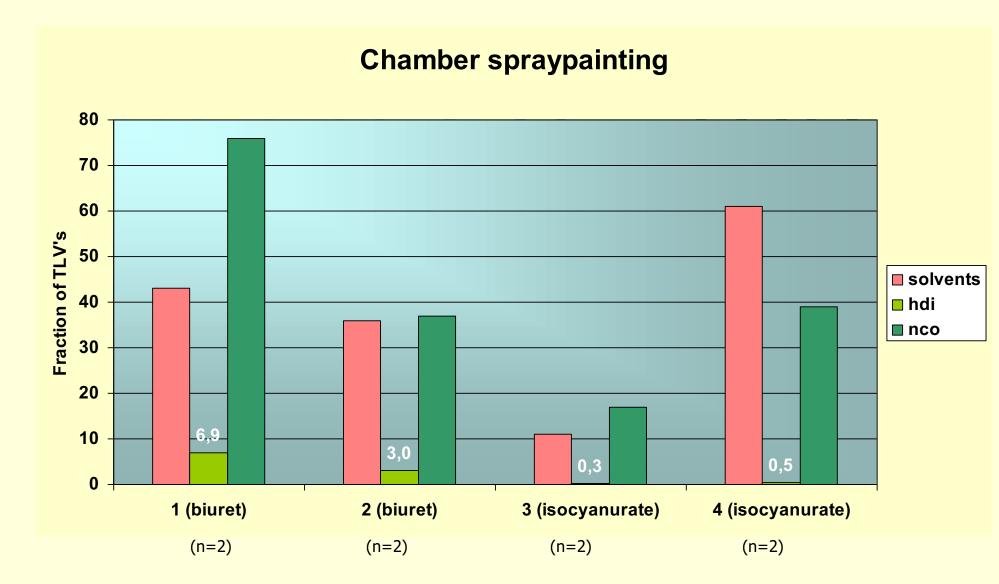
21 workers

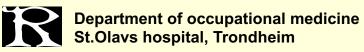
⇒ 4,1 cases pr 1000 personyears

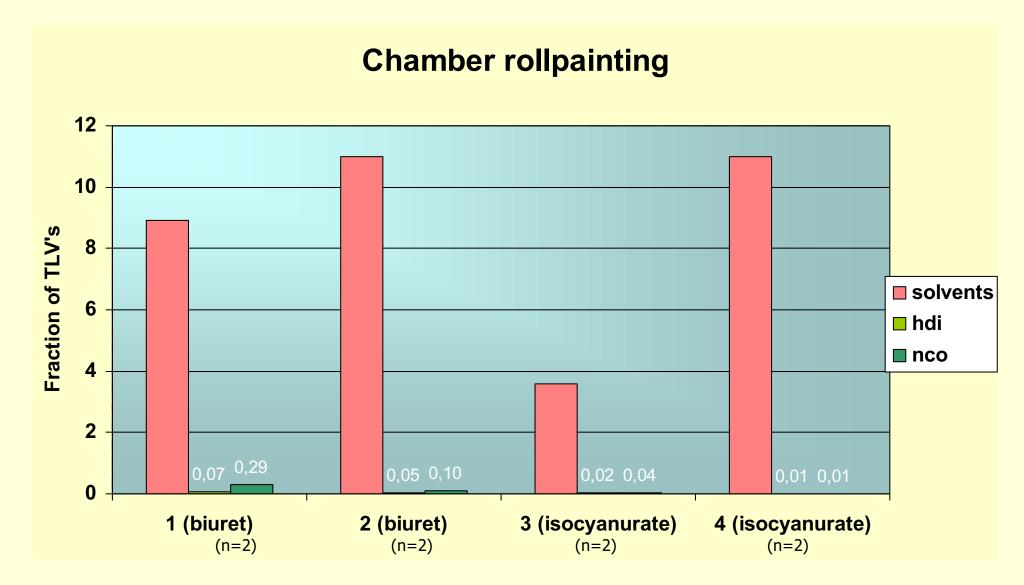


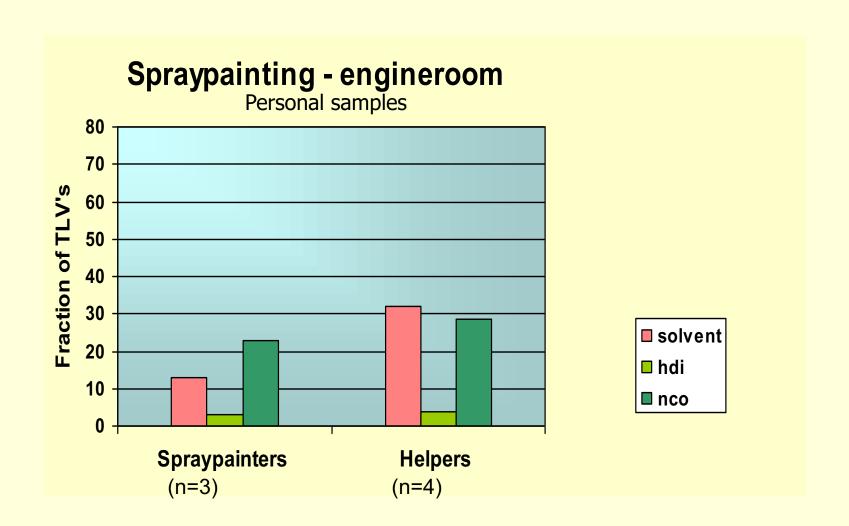
# **Chamber study**

- Volume, 22 m3
- No ventilation
- Four HDI-based paints
- Standard painted area
- Standard paint volume
- Standard applying time









#### Main conclusions

- Insidence rates should be regarded as minimum figures.
- Rollpainting: Low isocyanateexposure
- Spraypainting: High isocyanateexposure, dominated by low volatile isocyanatecompounds.

Reports (in Norwegian): www.medisin.ntnu.no/ims/amed

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