2. Incident Statistics

- Incident and accidents are reported by the safety officers resp. supervisors or heads of practical lab courses
- Information and reports about injuries and/or property damages sent to <u>sgu-incidents@ethz.ch</u>
- SSHE provides statistical data
- SSHE incident/accident investigations



Aim of the Incident Statistics

- Reflection of safety culture in our chemical building.
- Evaluation of the performance efficiency of our safety management in our chemical building.
- Recognition of type and frequency of incidents, the causes of which must be found and remedied with appropriate measures.
- Recognition of type and frequency of incidents caused by external or installation-related influences.
- Recognition of deficits in the safety infrastructures and safety facilities.
- Recognition of deficits in safety instructions, safety training and safety inspections.

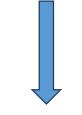


HCI Incidents Statistics for January and February 2024

2x Explosion



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https://mg.treepik.com/premium-vector/schoolboy-with-big-scientitic-idea-made-explosion-during-dangerous-
xperiment-with-chemical-reagents-equipment-chemistry-lesson-school-class-vector-cartoon-illustration_376504-
(5.jpg?w=2000
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https://i.pinimg.com/736x/60/c0/b7/60c0b7a8c68c6c244a676d4be6820ee3.jp

1x Chemical Spill



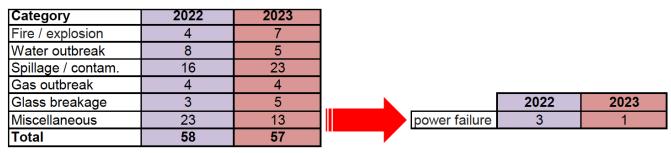
https://www.evolab-th.com/images/content/crop-1512565729296.jpg

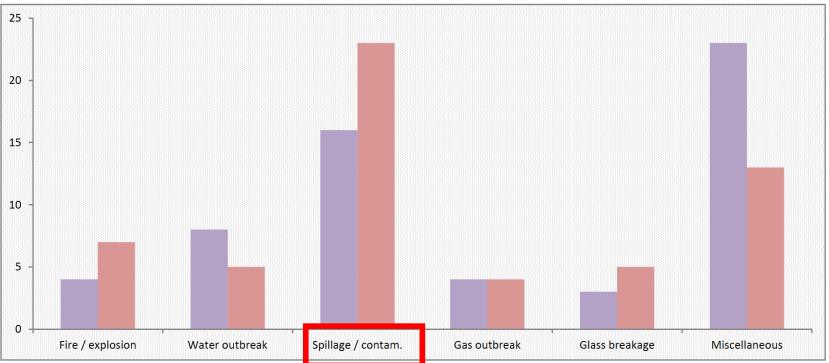




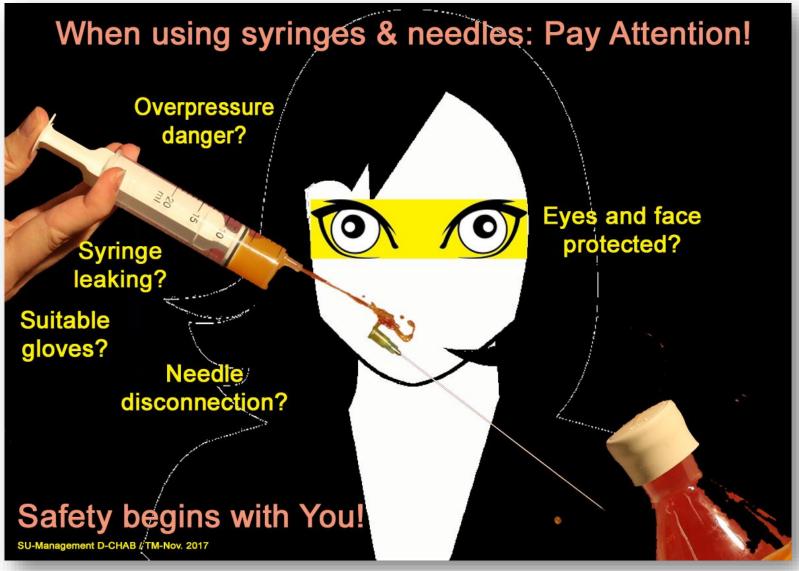


Category of Incidents





Analysis of accident statistics - Reason for the most common cause of accidents: Many spills and splashes were caused by careless handling of the disposable syringes.



Analysis of accident statistics - The most common cause of skin and hand injuries is wearing improper gloves.



Open the QR code and find all the necessary information there



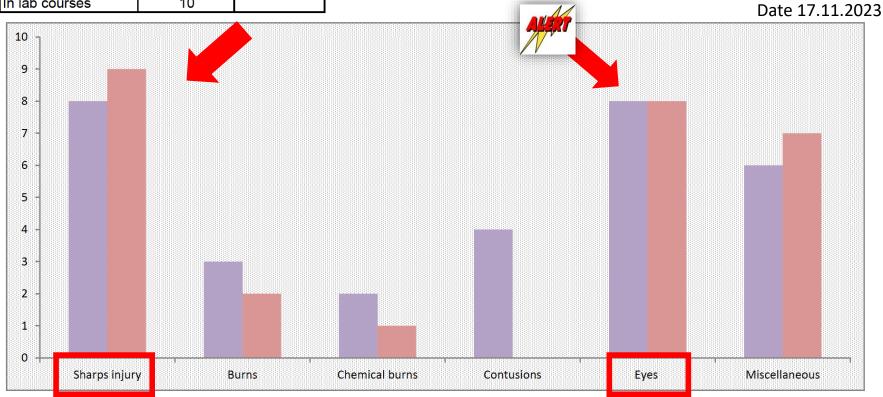


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Category	2022	2023
Sharps injury	8	9
Burns	3	2
Chemical burns	2	1
Contusions	4	0
Eyes	8	8
Miscellaneous	6	7
Total	31	27
In lab courses	10	

HCI: Eye injuries are the focus of the health damage.



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Eye Protection



https://ehs.ucsc.edu/programs/research-safety/ppe/images/face-splash.png

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Chemical labs: Attention!



Insufficient protection....

- Without safety goggles!
- With ill-fitting goggles and open gaps!

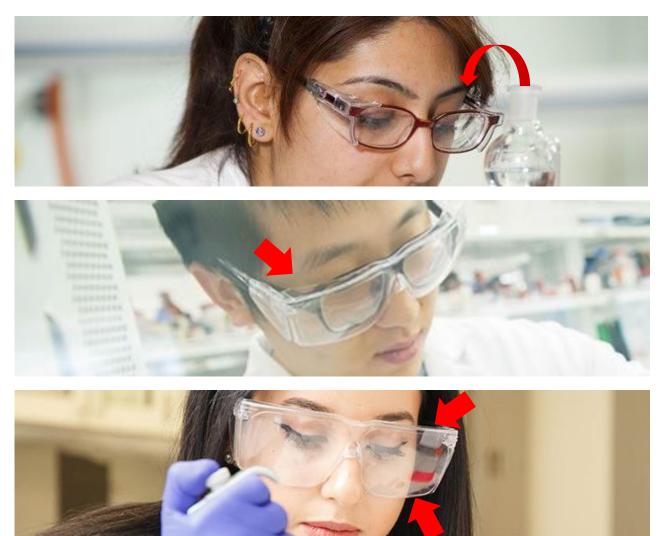
Reminder: contact lenses are forbidden in chemical laboratories; reading glasses are not safety goggles.

Sufficient protection!

We are happy to help! Contact: Safety officers, assistants, HCI-Shop

SU-Management D-CHAB/TM-Jan. 2015

Analysis of accident statistics - The most common cause of eye injury's in the labs are the wearing of not appropriate safety goggles.





Occupational Accidents 2013 – 2017 Age Group

shutterstock.com · 1096030148

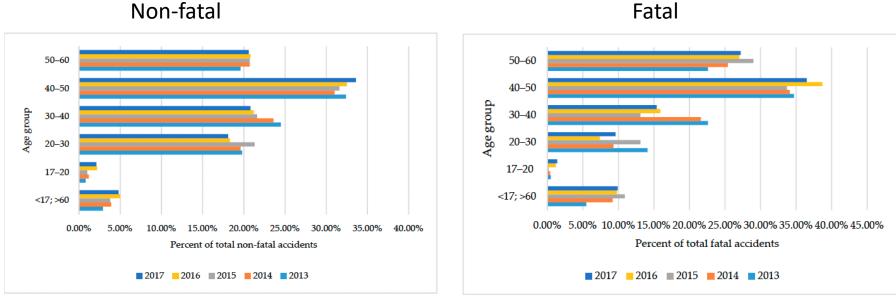
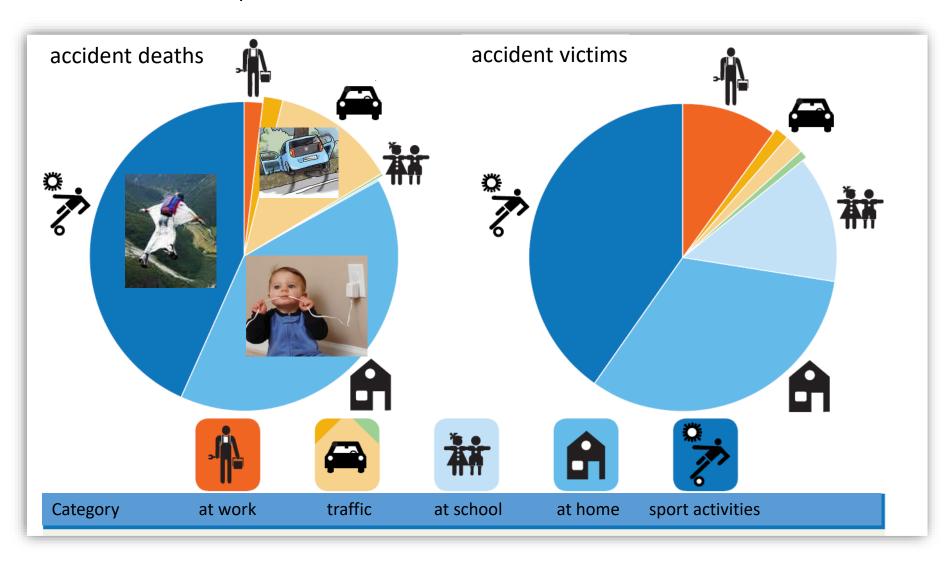


Figure 14. Assessment of non-fatal work accidents by age group [1,2].



Ivascu, L. and L.-I. Cioca (2019) "Occupational Accidents Assessment by Field of Activity and Investigation Model for Prevention and Control." <u>Safety</u> **5** DOI: 10.3390/safety5010012.

It is important to know that most accidents happen at home and at sport activities. The reason for this is that, in contrast to leisure and sports, stricter safety regulations must be observed in the workplace and on the road.





Summary Accidents

- Occupational Accidents
 - Most common causes are being hit, slipping or sliding and being stabbed or cut
 - Slips and falls cause a large proportion of the ongoing costs
 - Slipping, falling, bumping and overexertion increase with age.
 - Being hit, stabbed or cut decreases with age.
- Recreational accidents
 - Men most frequently have accidents during leisure time while playing sport
 - Women are most frequently involved in accidents during their leisure time when staying indoors and on private property.

https://www.suva.ch/de-ch/download/dokument/uvg-statistik-2023--suva/uvg-statistik-2023--suva--2386-23.D