# University of Basel

### Of soap and metals: discovering contact dermatitis

Prof. Andreas J. Bircher

## Easy recognizable skin disorders



Urticaria

Angioedema

### Complex to discern: different eczemas







Examples of various forms of eczemas (= dermatitis).

### Understanding eczema

### Important questions:

What does an eczema look like?

What causes an eczema?

### Origin term 'eczema':

From Greek 'to boil over'

#### **Paracelsus**

(1493 - 1541)

Dermatitis in metalworkers.

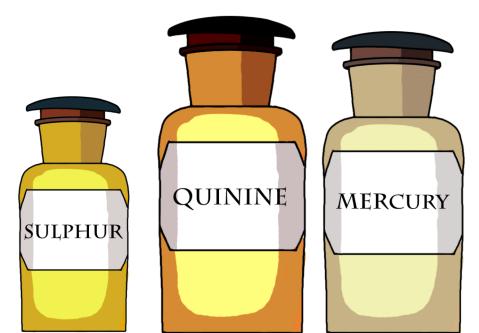


Bernardino Ramazzini (1633 –1741) Skin diseases in people working with soap.



19<sup>th</sup> century

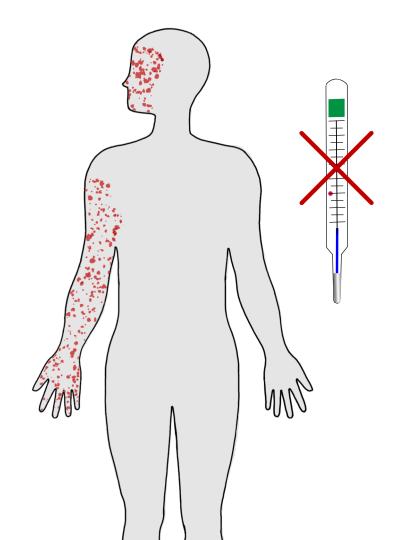
Remedies cause irritant dermatitis.





## **Thomas Bateman** 1817

- Eruption of small vesicules
- No fever
- Not contagious
- Effect of irritation, great variety of irritants
- Constitutional element

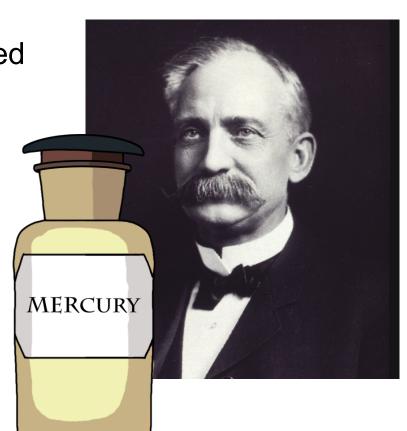


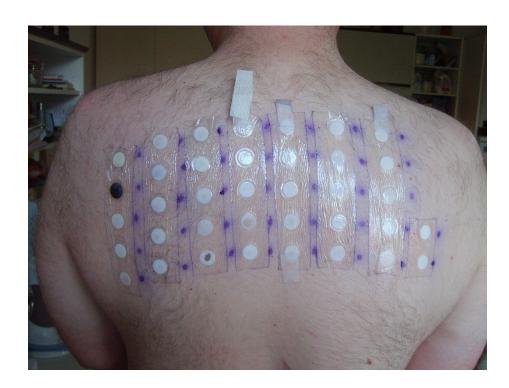
### **Irritant dermatitis**



Persons predisposed to irritation.

Joseph Jadassohn developed idea for patch testing in 1896 after a patient had an allergic reaction to an ointment containing mercury.











Jan Polák

## **Bruno Bloch** (1878 – 1933)

- Refined patch test
- Worked with iodine derivatives
- Identified 'primin' (Primula eczema)



### Contact allergens today

### Often responsible for allergic contact dermatitis:

- Nickel
- Chromium
- Fragrances
- Plant-derived substances like balm of Peru and colophony

#### Was useful to

- Discern allergic contact dermatitis from irritant contact dermatitis
- Study underlying mechanisms in detail
- Gain insights into the cellular basis of allergies (role of effector lymphocytes and macrophages)