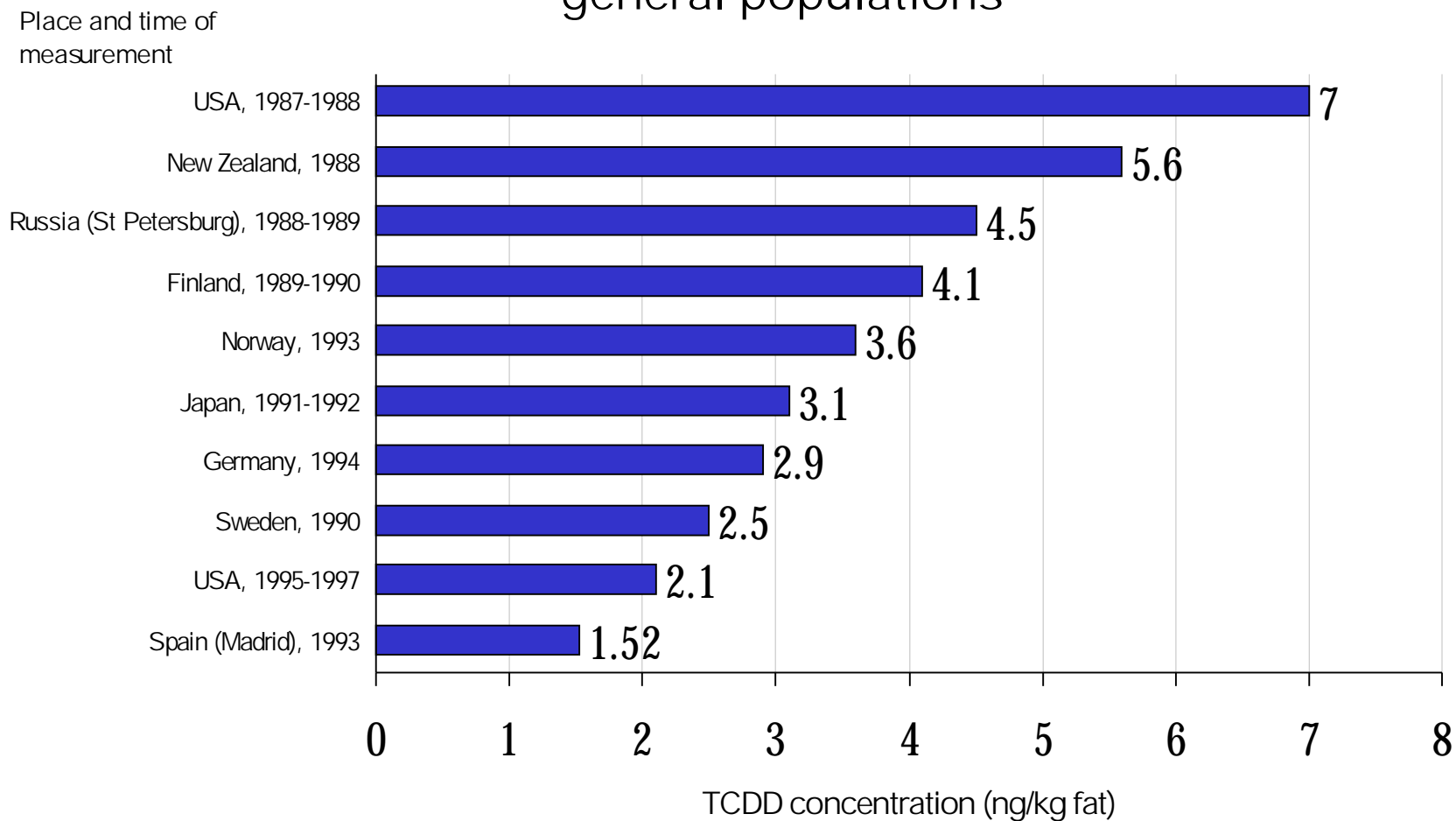
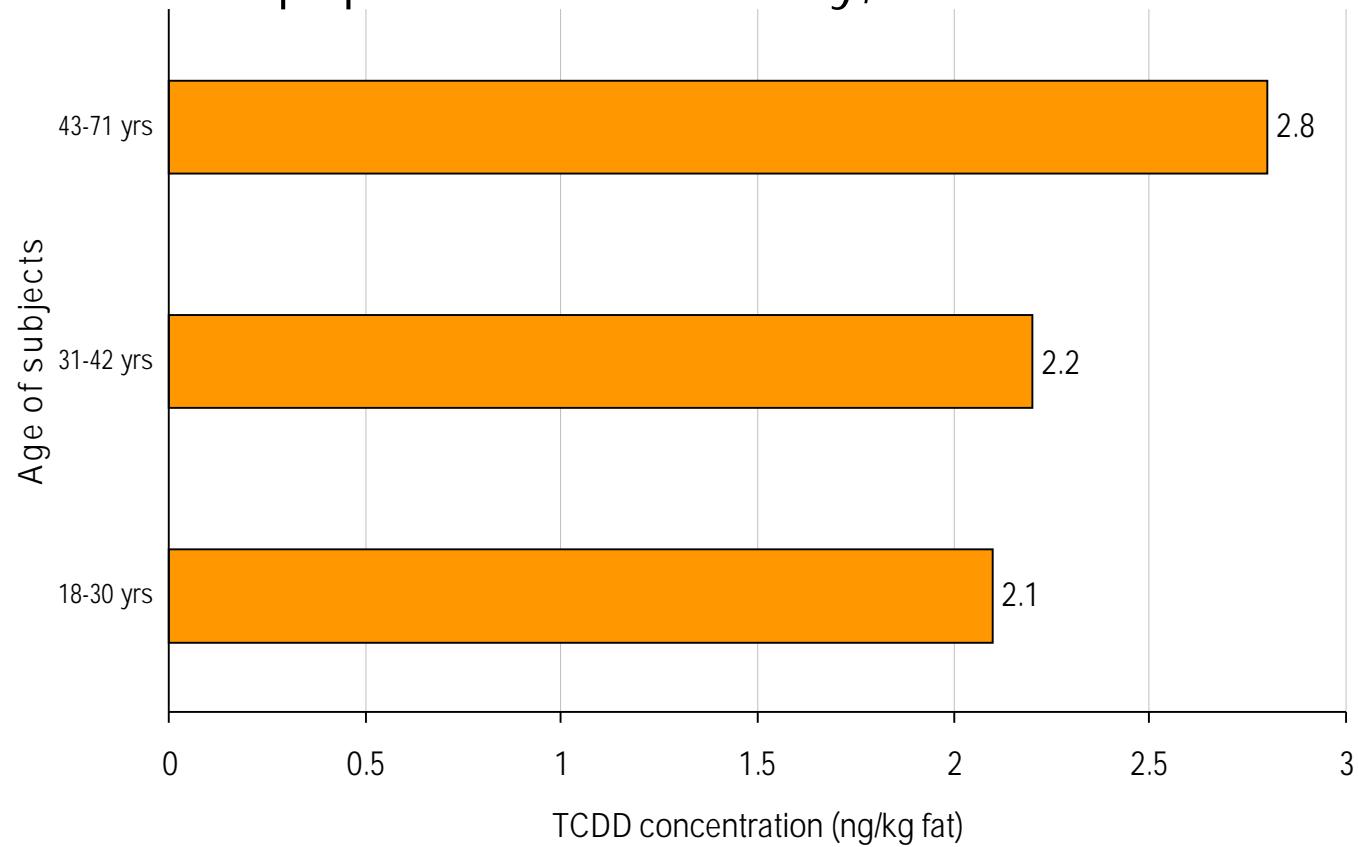


## Average concentration of TCDD in human blood from general populations

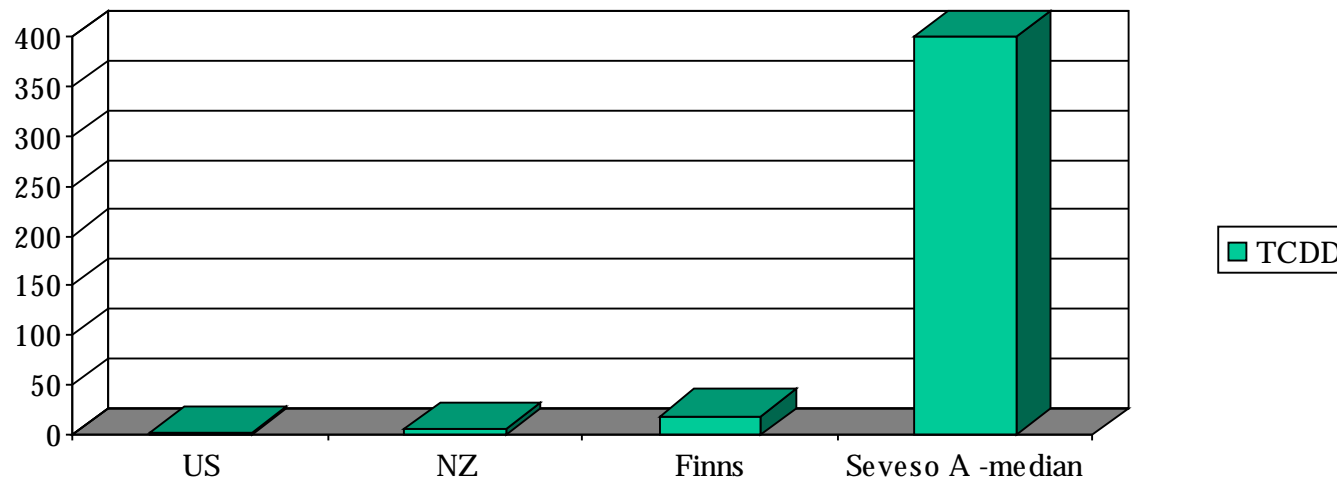


### Average Blood TCDD concentration in general population of Germany, 1997



## Atypical human exposures

- Finnish fishermen - 4 - 110 ng/kg
- Seveso 0 - 56 000ng/kg



## Human sampling

### Constraints

- Population average tends to decrease over time
- individual levels tend to increase over time
- cost - ~\$2000/sample
- individual anxiety
- no known health effects at any anticipated exposure

## Human sampling

- Sample size of 16 should detect an average difference of 2ng/kg
- any potential exposures able to change body burden this much?
- Possibility of pooled sample

## Health view on studies

- cancer data can't be controlled for smoking, occupation - retrospective
- soil and blood prospective - blood is most relevant indicator - but most expensive
- Believe unlikely to produce positive result
- Public resources vs local reinsurance