

# Long term consequences of bicycle accidents

A follow up study

# Dutch Injury Surveillance system

Registration of injuries at 14 Emergency Departments in the Netherlands

Since 1997

Causes of accidents

Valuable data for bicycle accidents

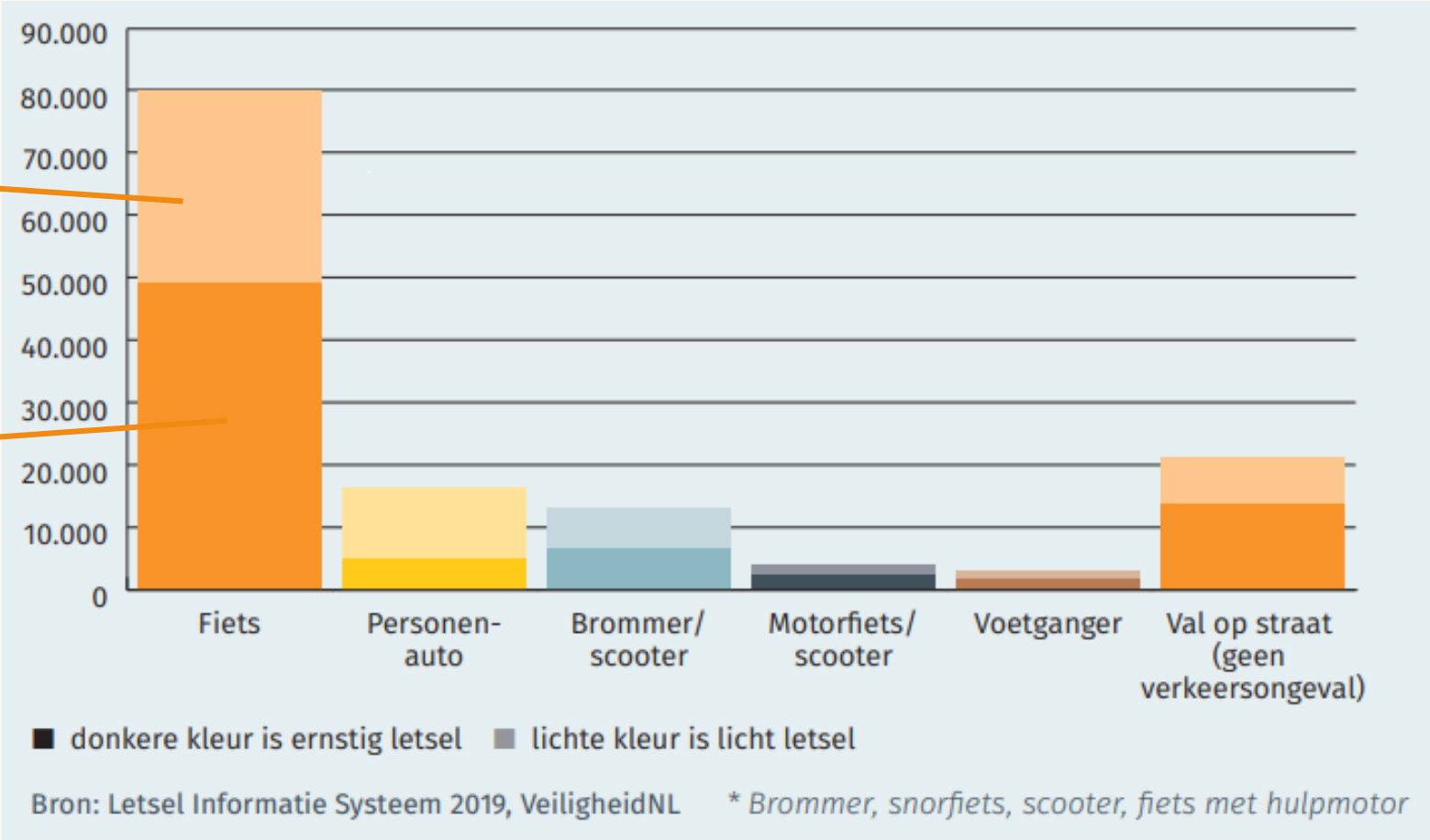
Possibility of surveys amongst patients



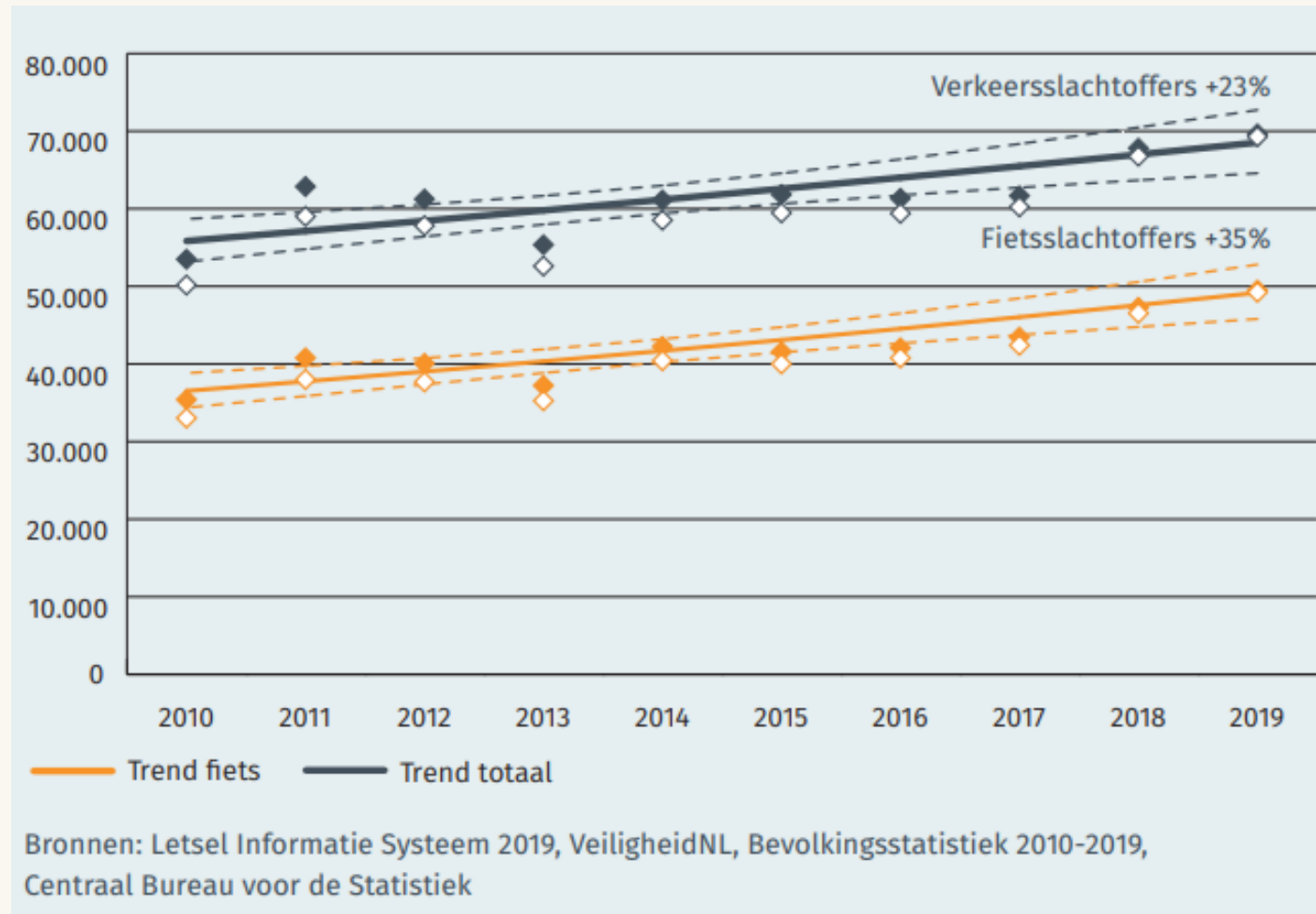
# Bicycle accidents in the Netherlands

minor injuries

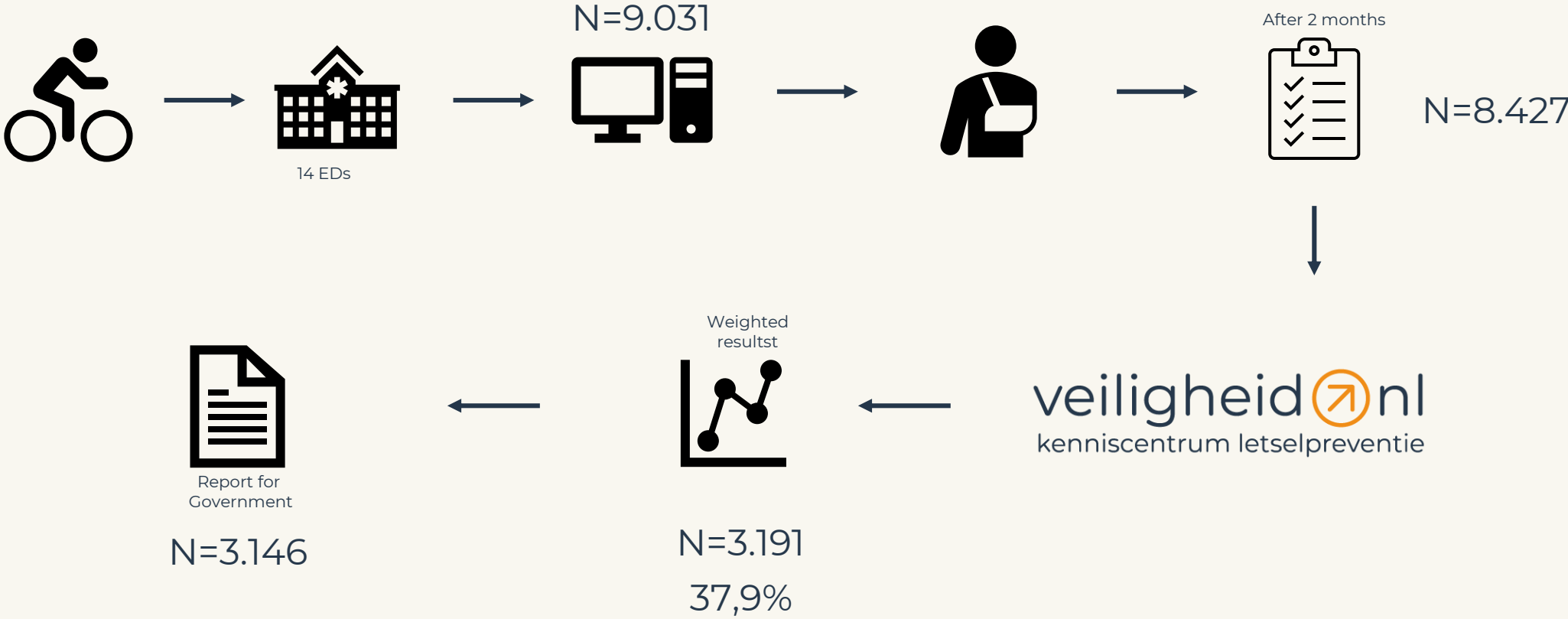
serious injuries



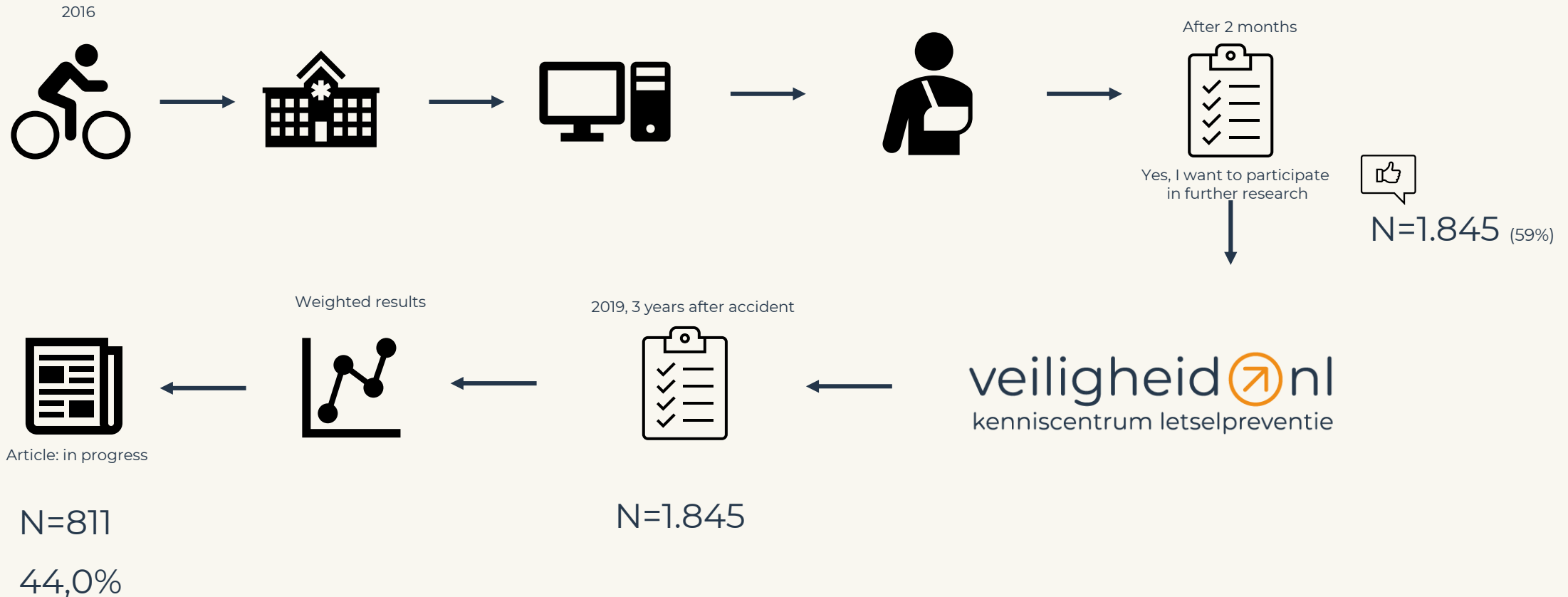
# Trend analysis serious injuries



# DIS survey 2016



# Follow up study long term consequences 2019

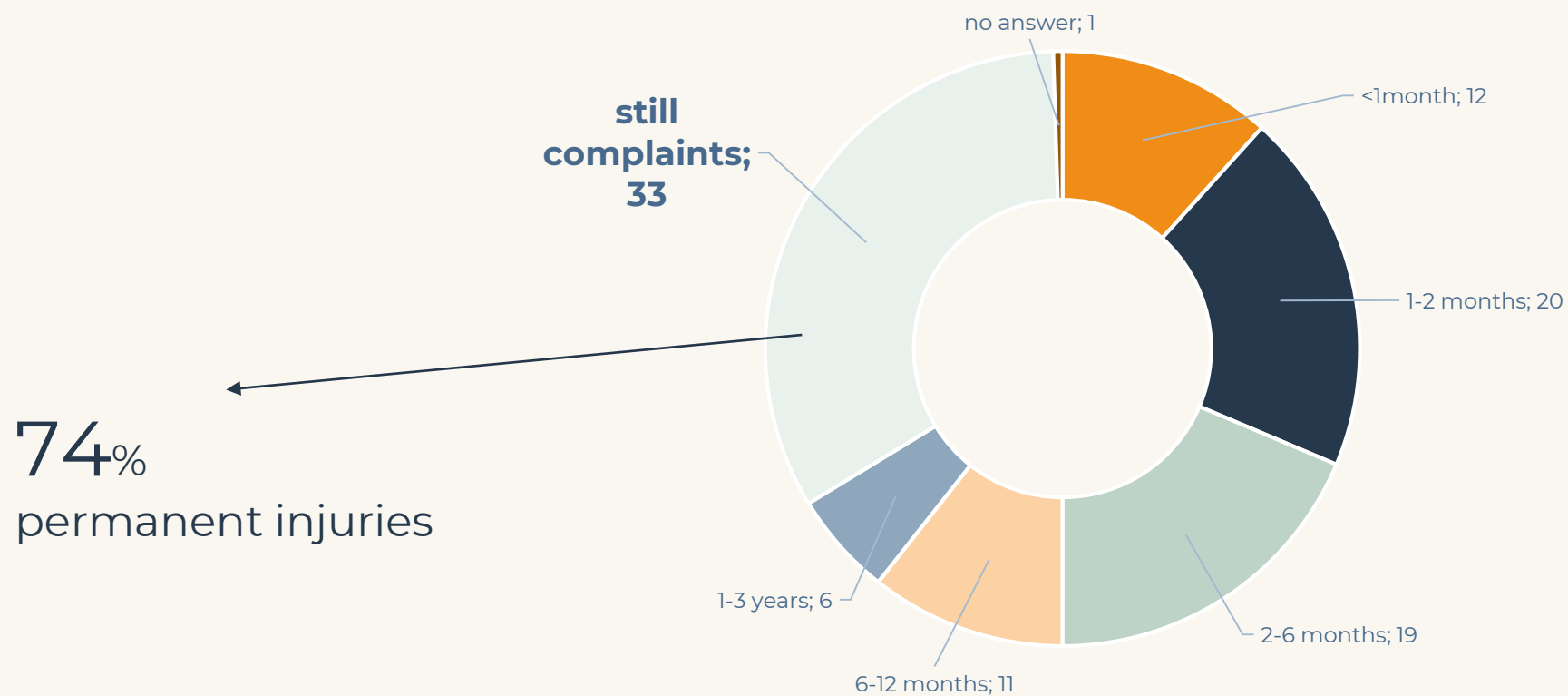


# Single bicycle crashes

- In 2016 & 2019 study: 2/3 single bicycle crash
- 80.000 bicycle accidents → 55.000 single bicycle crashes in the Netherlands

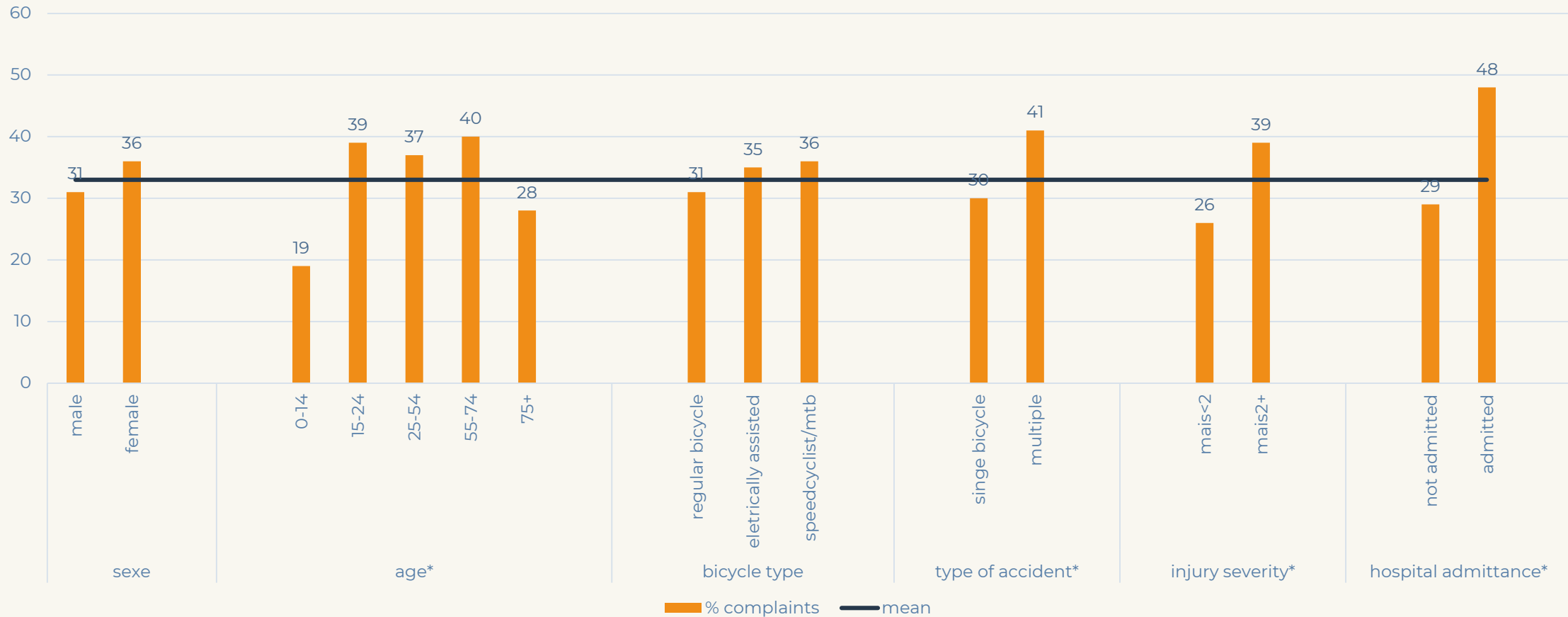


# Complaints and duration (n=811)

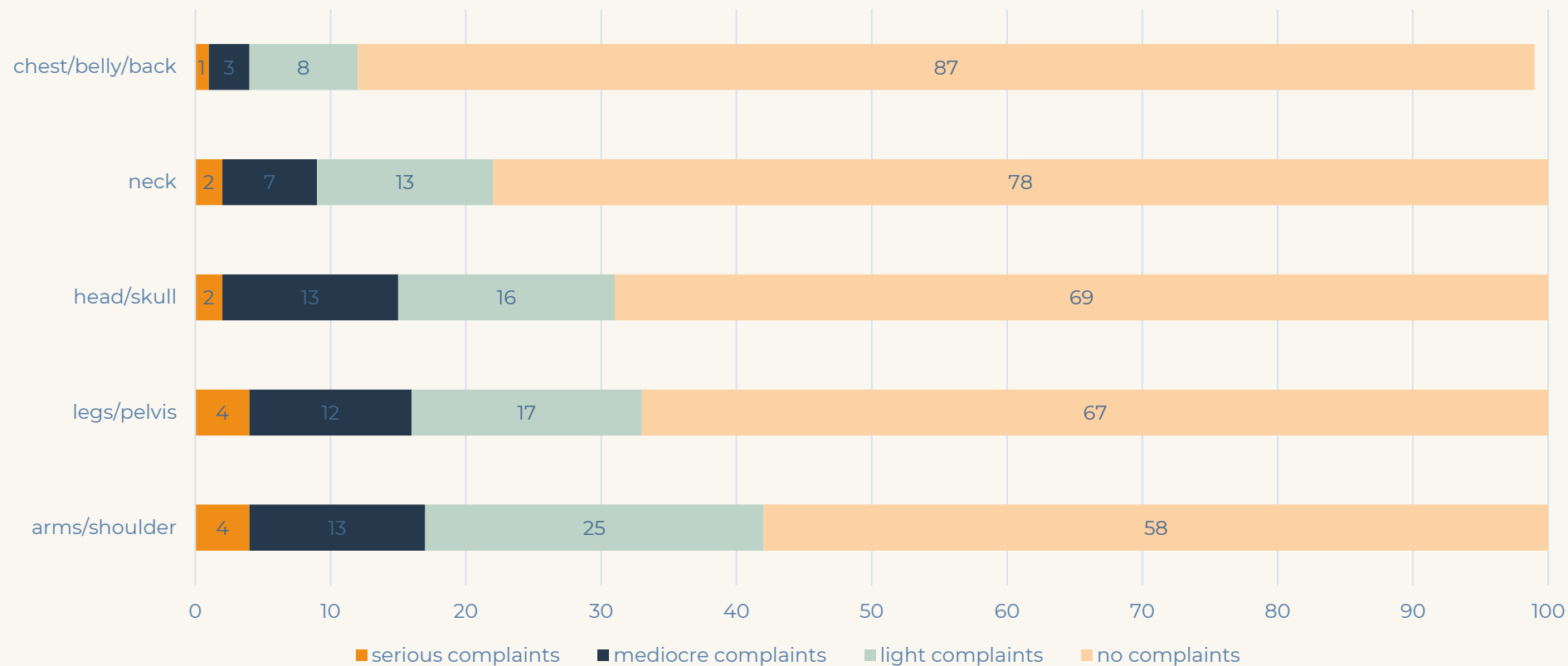




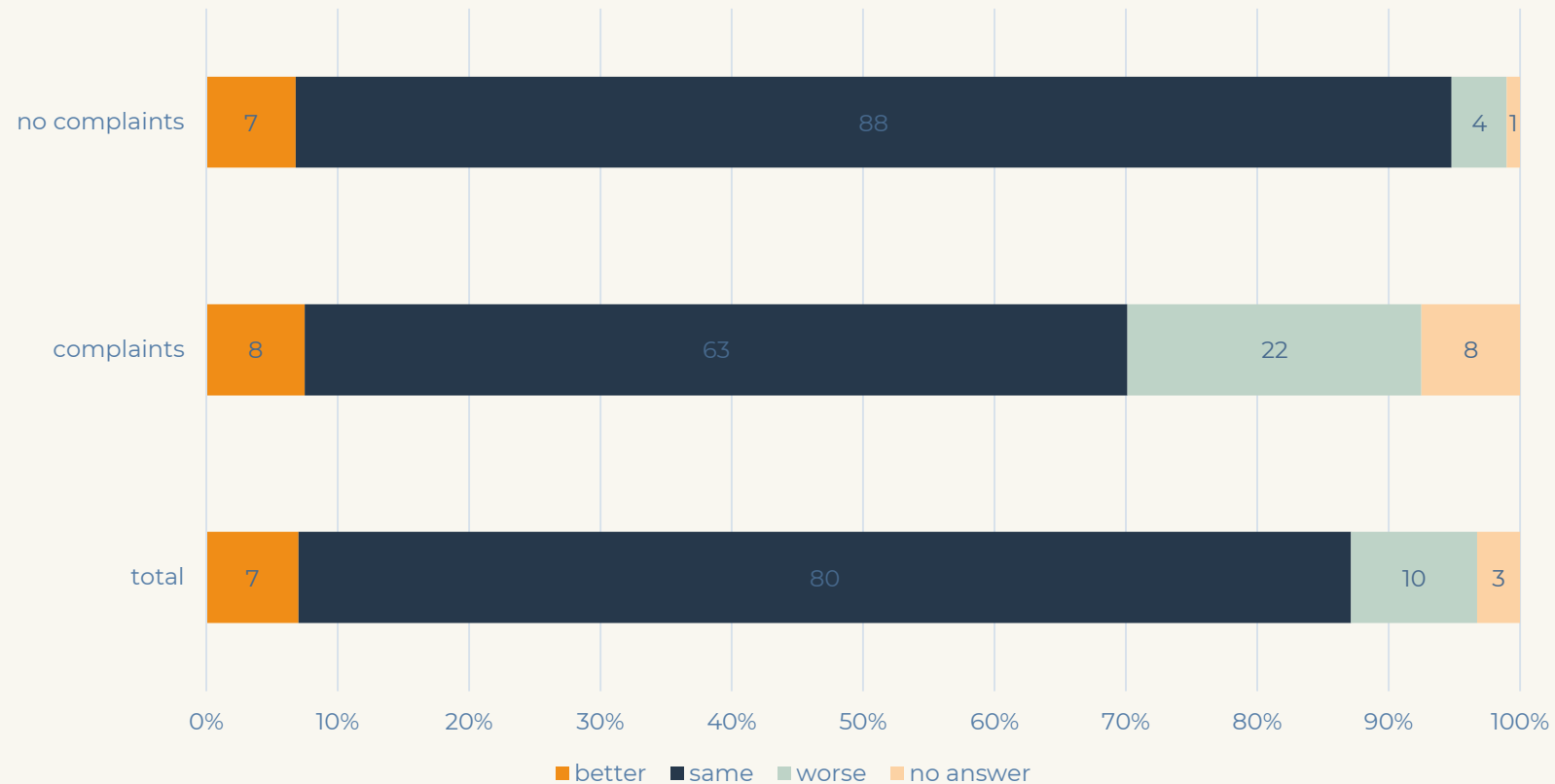
# Who still suffers from injury?



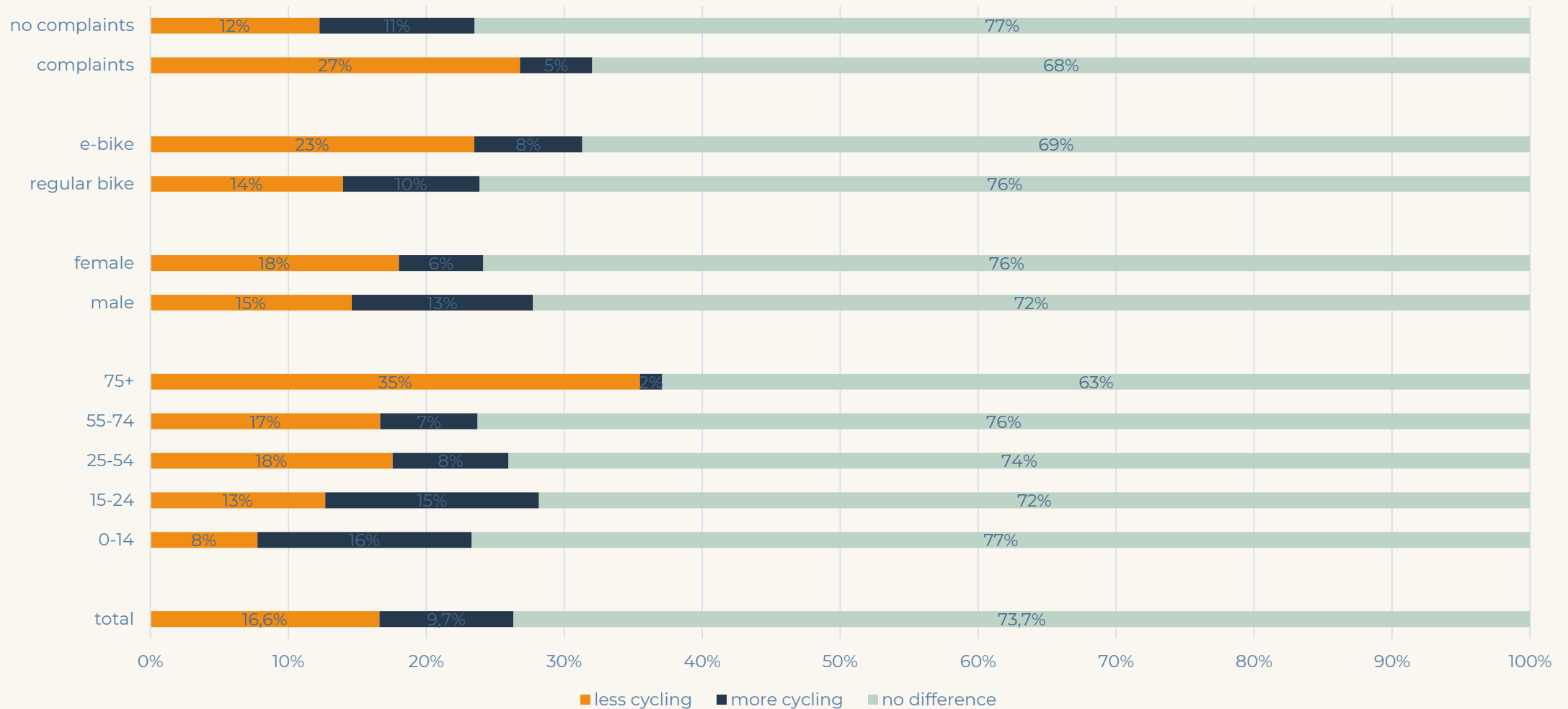
# Type of complaints (n=155)



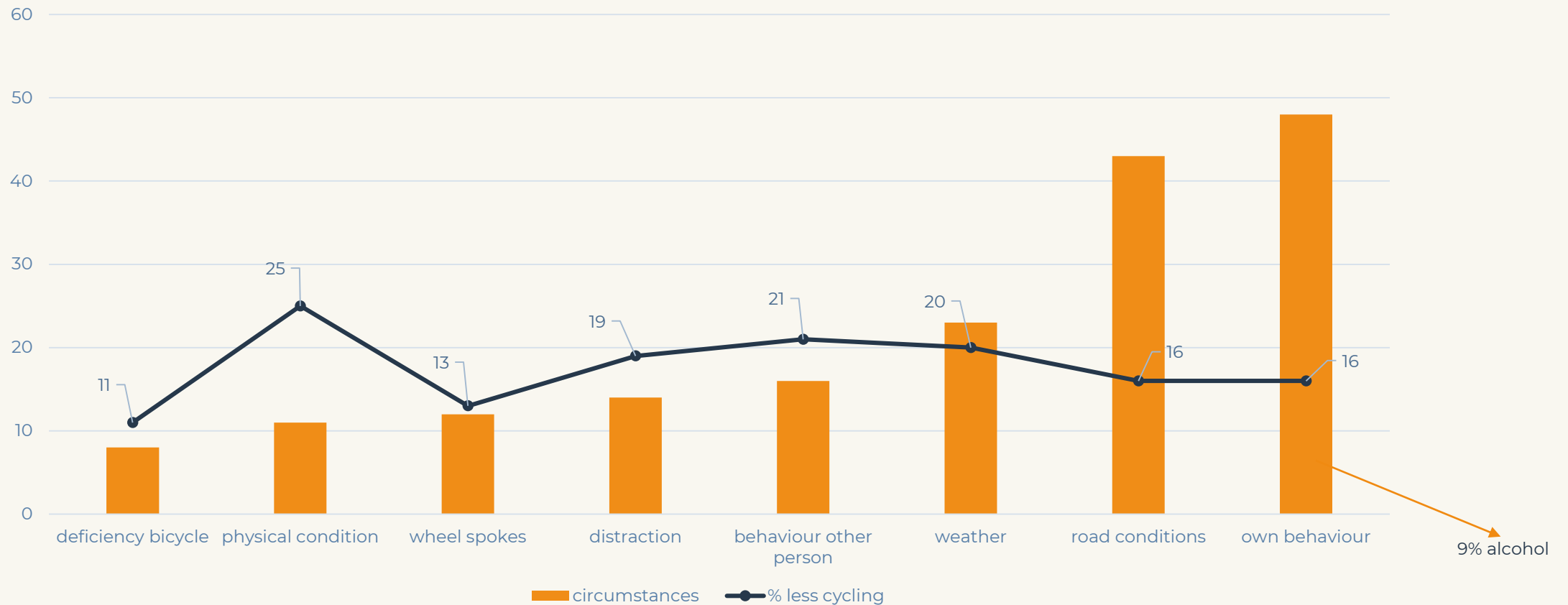
# Health, compared to 2016 (n=547)



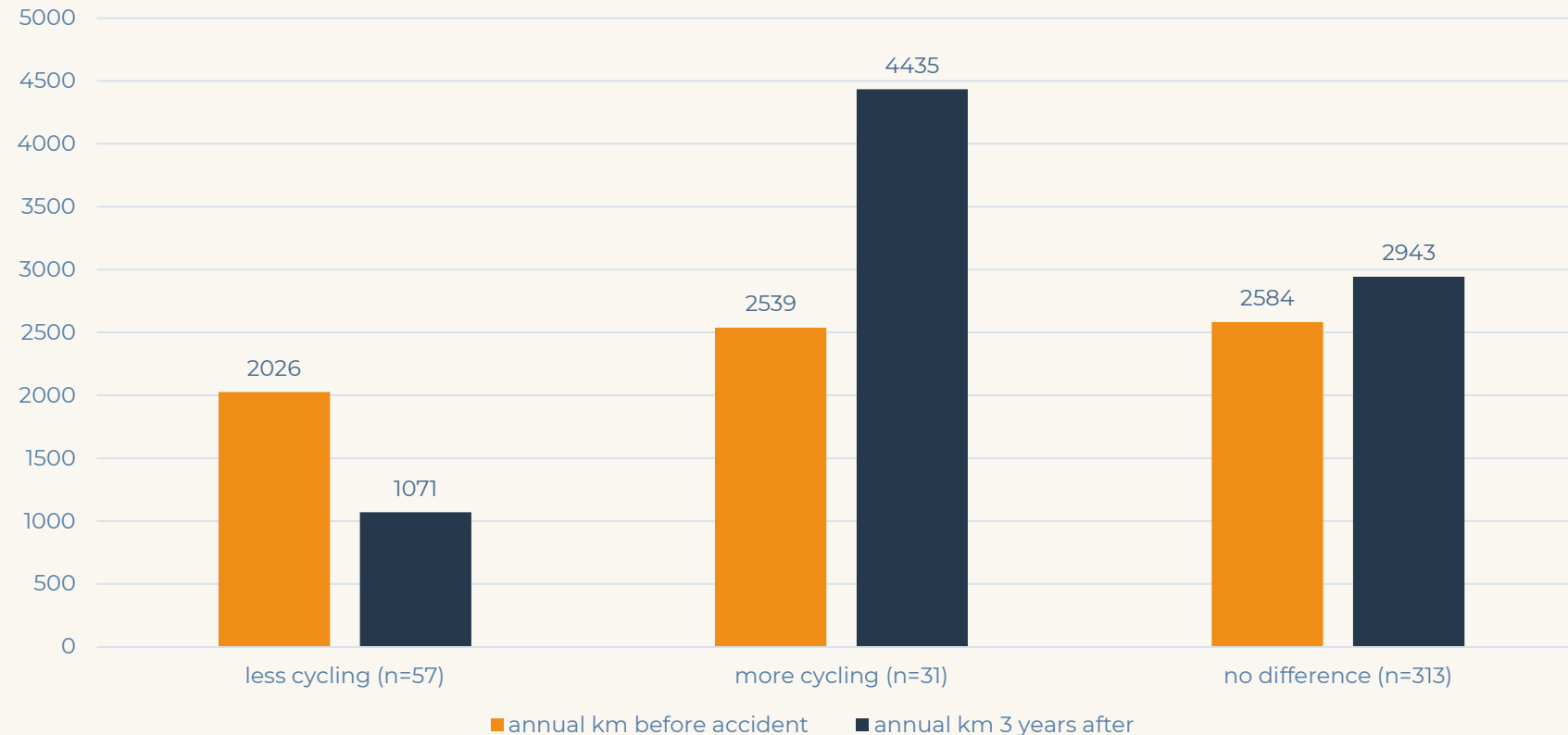
# Cycling behaviour after accident (n=536)



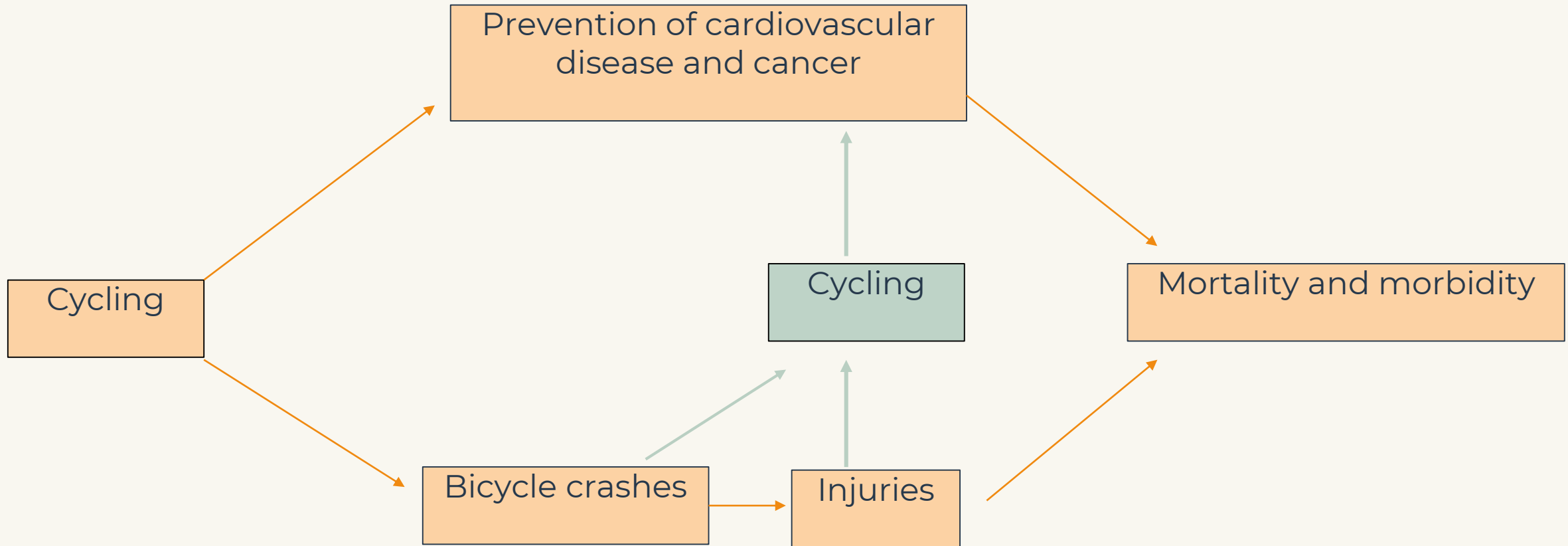
# Circumstances & cycling behaviour



# Annual kilometres before and after



# What's new?



# Conclusions

- Emergency department data very important for insights in single bicycle crashes
- 80.000 bicycle accidents a year in the Netherlands
- 55.000 single bicycle crashes
  
- Unique follow-up study, 3 years after accident
- Very good response (44%)
  
- 1/3 victims still has complaints, 3 years after accident: more multiple than single bicycle
- 18.150 cyclists with complaints after 3 years (within single bicycle crashes)
- Complaints of single bicycle crash (1/3 or more): arm/shoulder; legs/pelvis and head/skull
- 17% is cycling less after accident → 9.350
- 27% of the people with complaints cycle less!



**Thank you for your  
attention!**

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