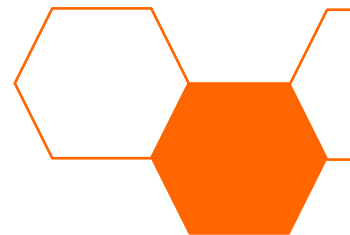


Health care databases - a wealth of opportunity

Anna Jöud and Maria Sandberg
Epidemiology and Register Centre South
Skåne University healthcare

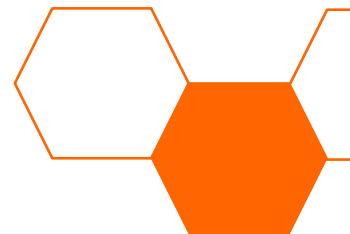


Healthcare data in Sweden

National:

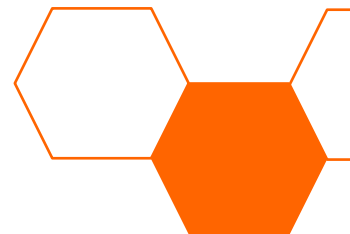
- Inpatient and specialist outpatient care (physician).
The National Board of Health and Welfare
- Quality registers (specific disease)

We lack national data on primary care!

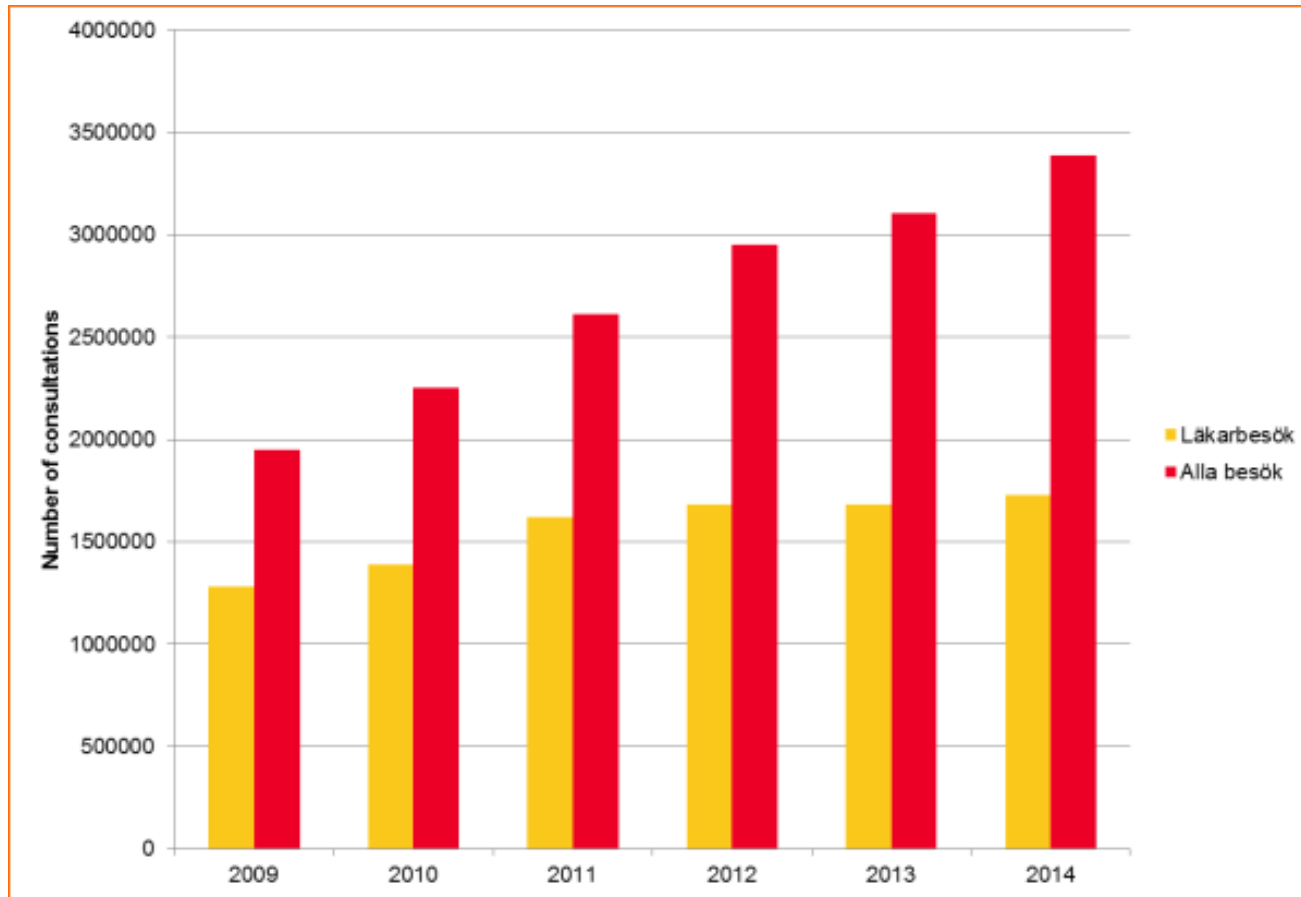


Skåne healthcare register (SHR)

- Skåne 2014 ($N \approx 1,3$ million)
- No of. consultations 2014 (~ 12 millions)
 - Level of care
 - Care givers (physician, nurse, physiotherapist)
 - Diagnoses (ICD-10)
 - Procedure codes (OP, KVÅ)
 - Type of consultation (visit, phone, email)

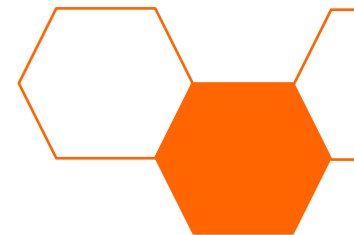


Number of consultations within primary care



Representativeness: Scania - a mini Sweden?

- Sex
- Age
- Education
- Ethnicity



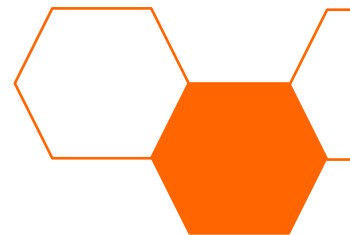
What can SHR be used for?

- Surveillance
- Incidence/prevalence
- Changes over time (intervention/secular trends)
- Link with other registries (drugs, sick leave, cancer, cause of death, and quality registries)
- Link with other health care registers (medical imaging, lab data, pathology)

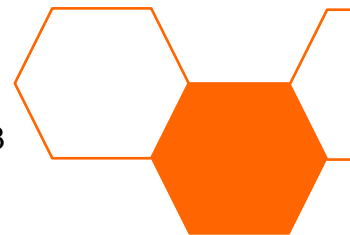
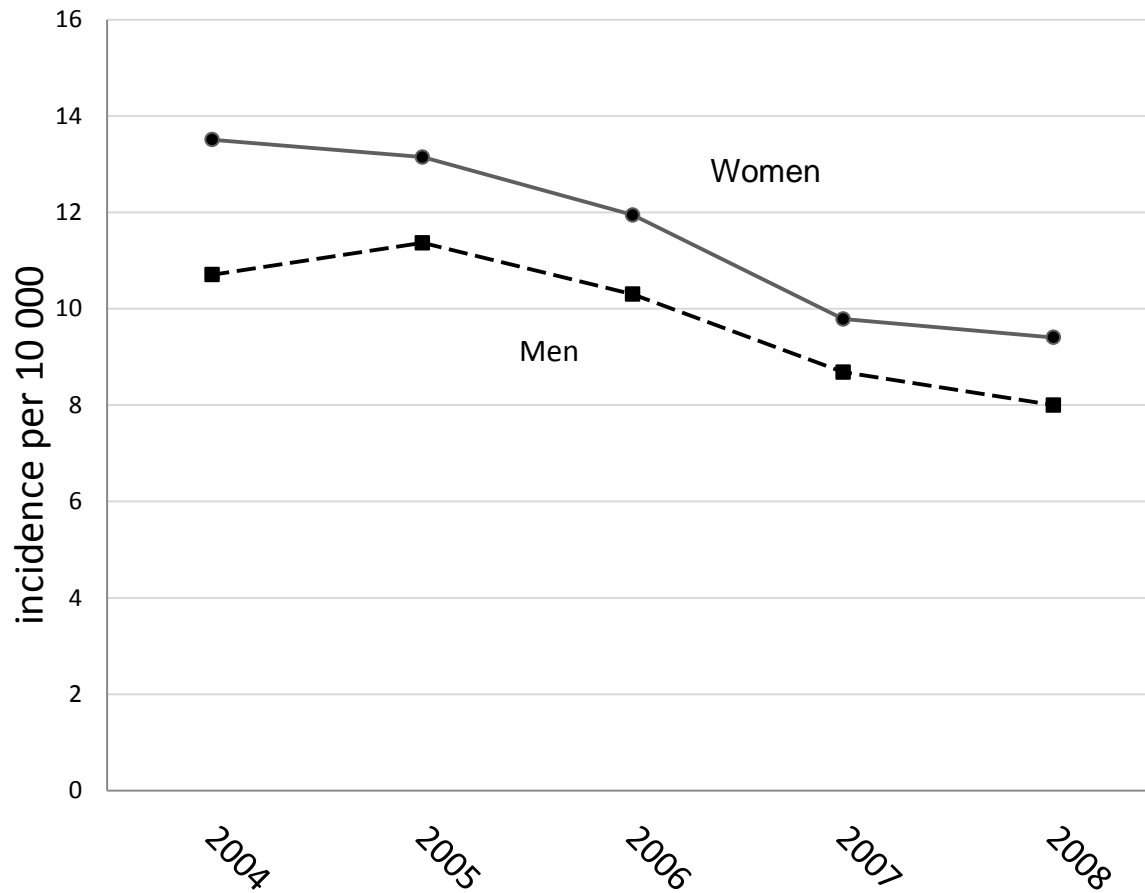


Useful study designs

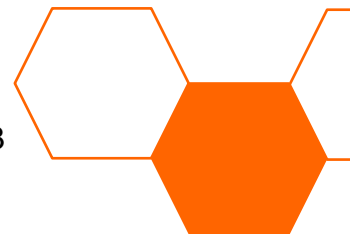
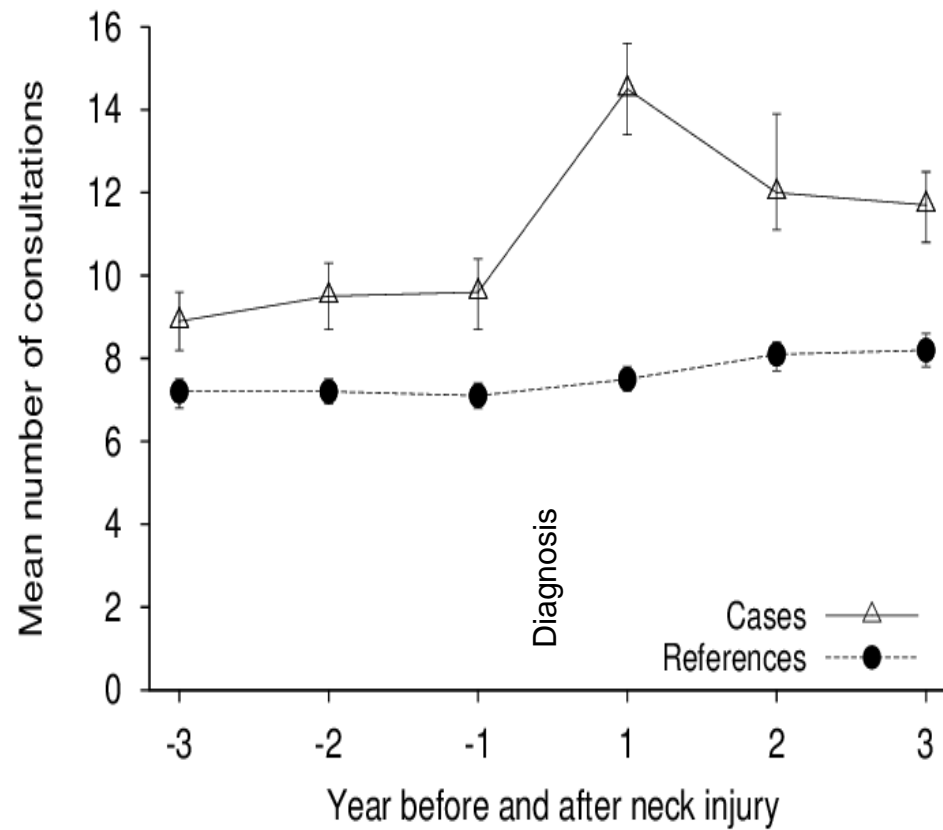
- Cohort study
- Nested case control study (density sampling)



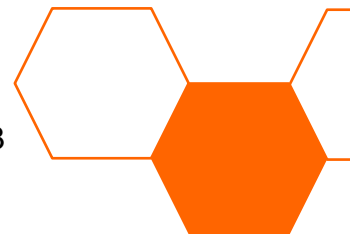
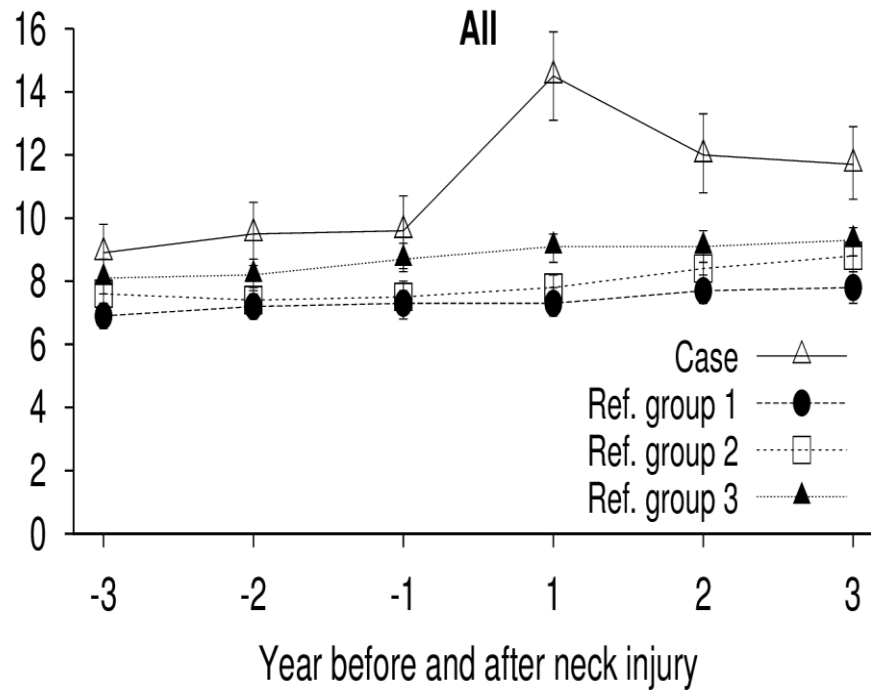
Incidence per year and sex



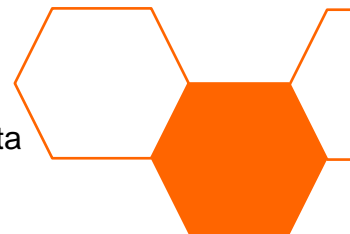
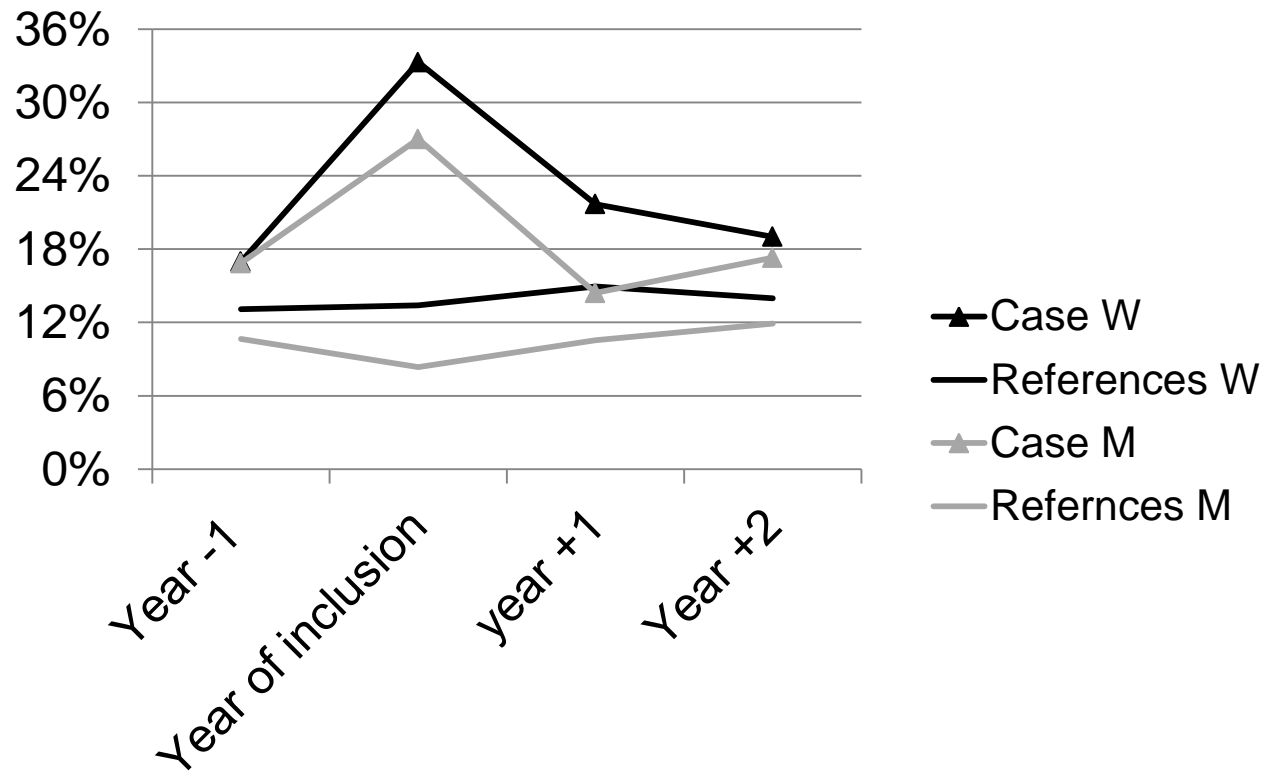
Mean number of consultations per year



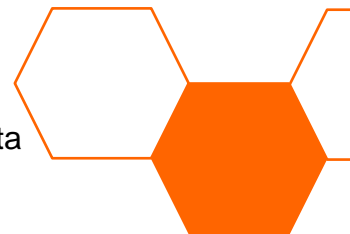
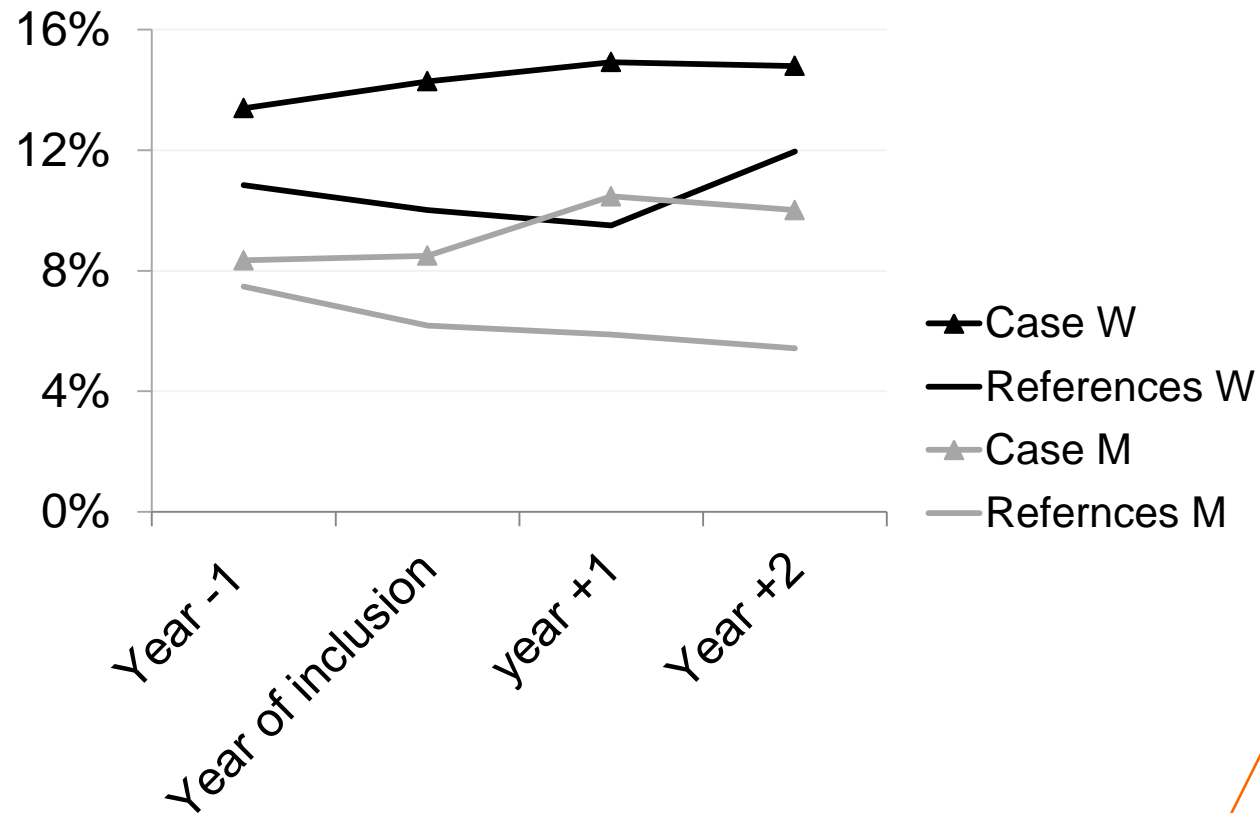
Sensitivity analysis: reference group



Proportion on NSAID per year

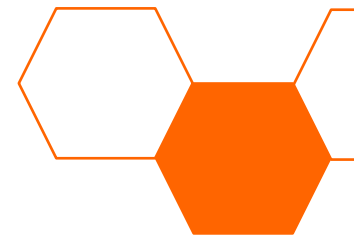
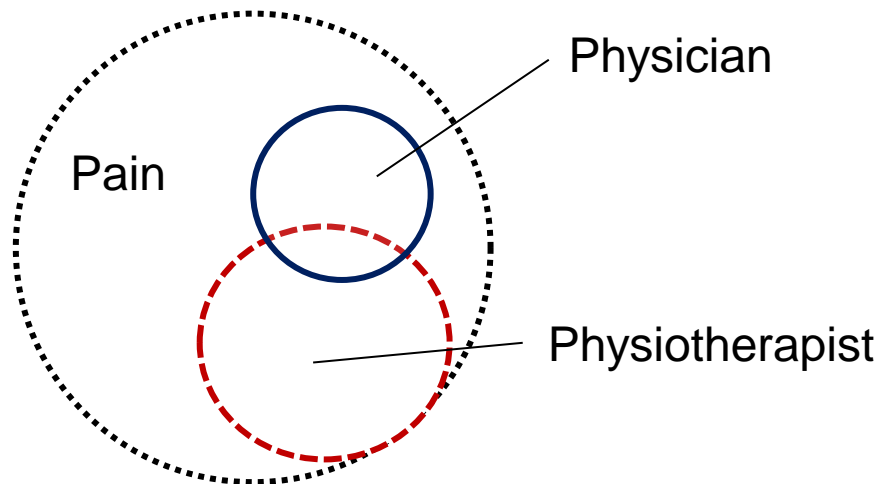


Proportion on antidepressants per year

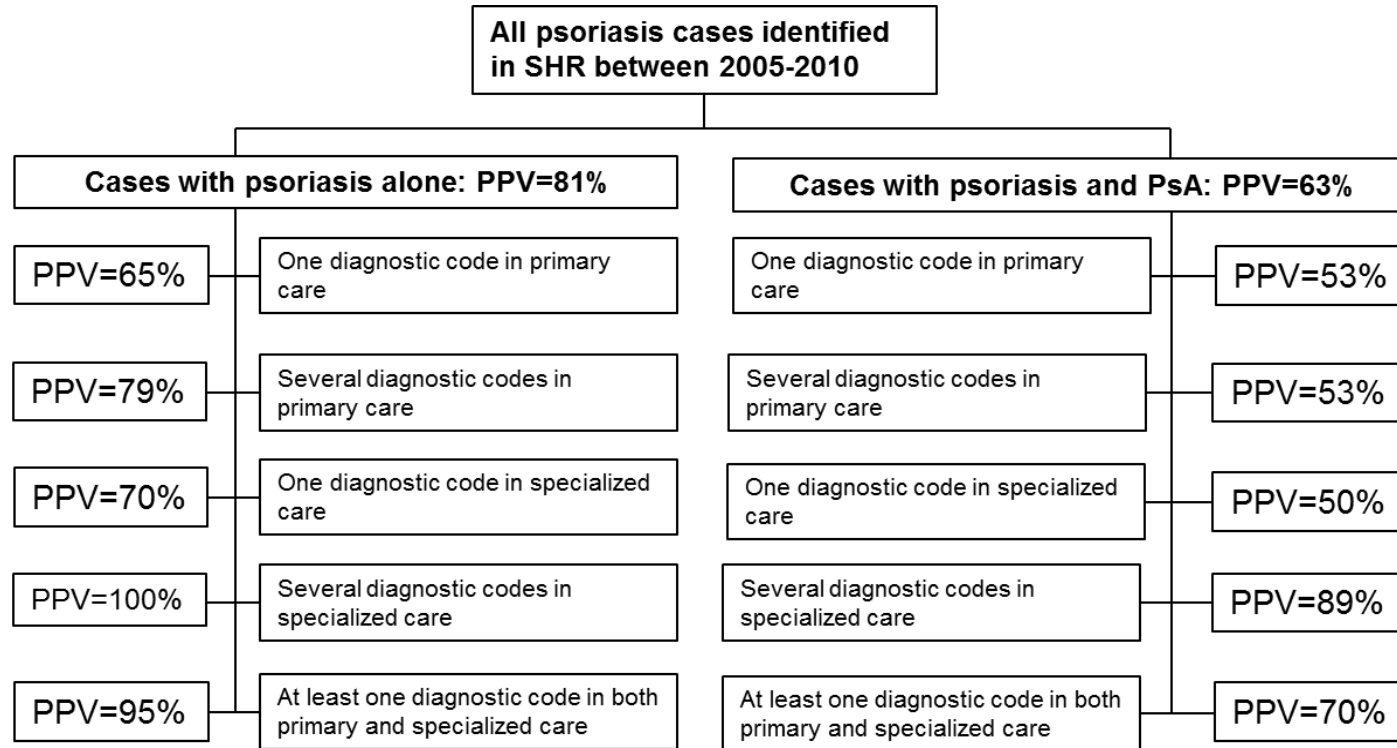


Methodological aspects

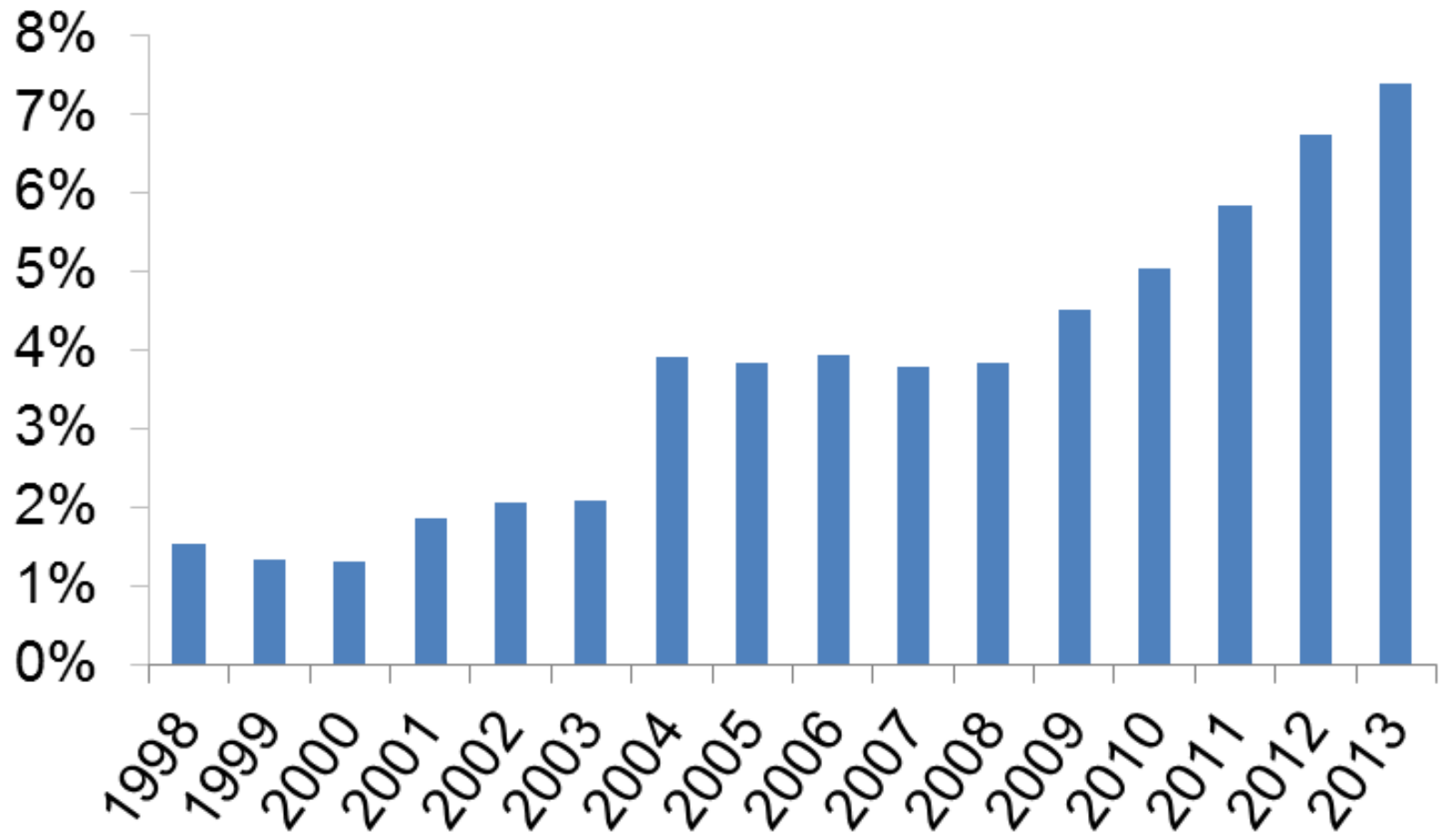
- Actual consultations
- Diagnostic coverage
- Who register diagnoses?
- Registration
- Migration



Validity of diagnoses?

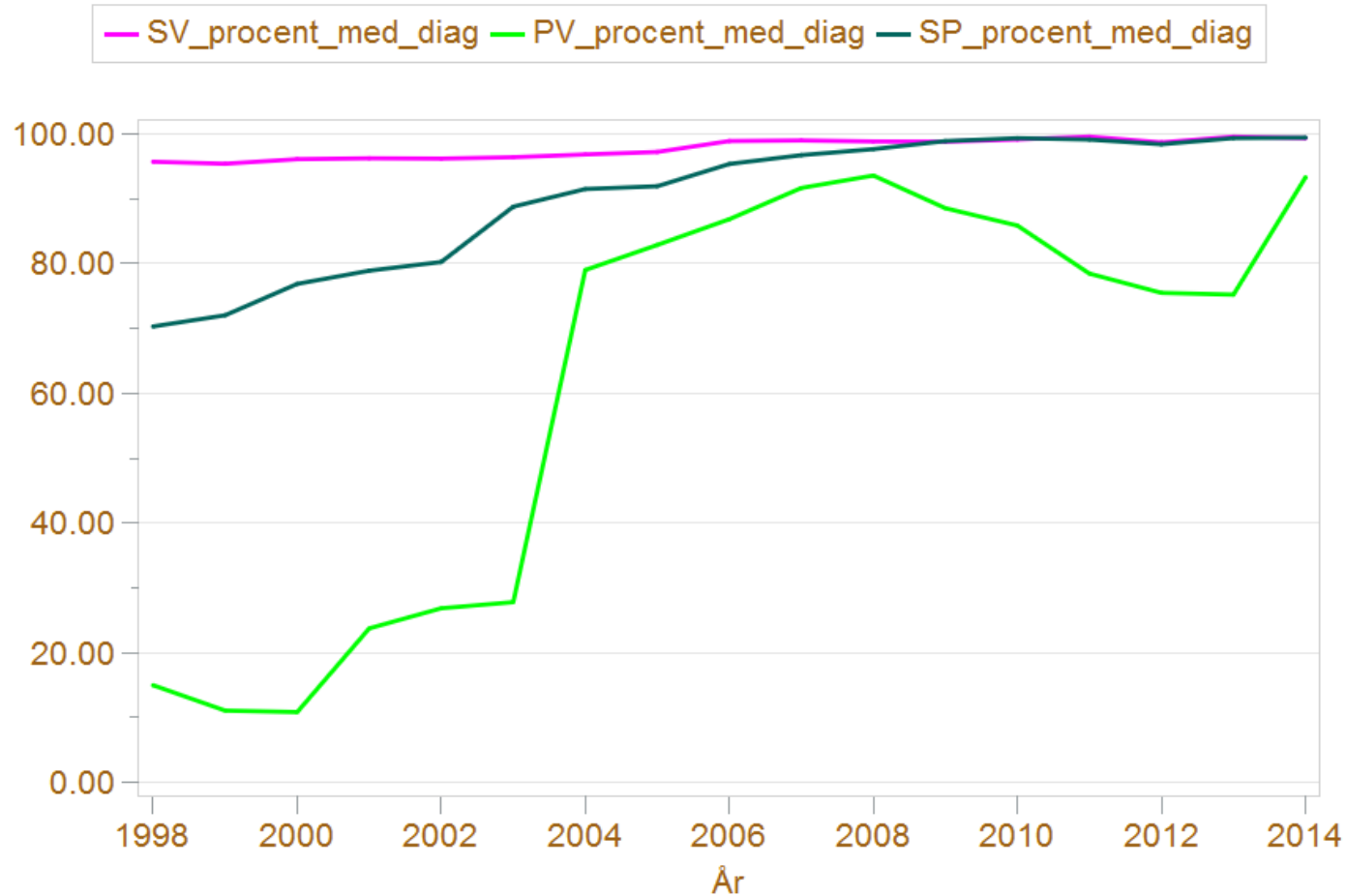


Proportion of the adult population in Skåne consulting due to pain in back and /or neck*



* ICD-10 code M54

Coverage* in SHR 1998-2004



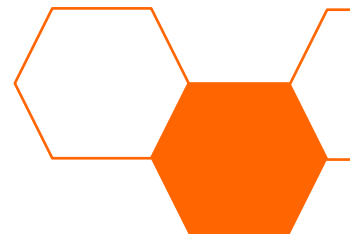
*Proportion of physician visits with an assigned diagnosis



Samrådsgrupp - Kvalitetsregister, vårdinformationssystem och beredning (S-KVB)

- Personal data for research purpose from the SHR or medical journals
- Personal data from national or regional quality register where Skåne County council act as CPUA

<http://vardgivare.skane.se/kompetensutveckling/sakkunniggrupper/samradsgrup-p-kvalitetsregister-varddatabaser-och-biobanker-s-kvb/>



Thank you!

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