Adverse health requirements in fire fighters: How often used as start for guidance of occupational physicians in workers' health surveillance?

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Workers' health surveillance

Workers' health surveillance (WHS) includes in the Netherlands:

- · Monitoring workers' health during career
 - Tasks of the job might affect health
 - Diminished health might affect job performance
- Feedback on results by occupational physician
- · Occupational physician can initiate interventions



Background

- Development job-specific workers' health surveillance (WHS) for fire fighters, including intervention guideline
- Job-specific WHS: important when own and others' health and safety is dependent on performing job well



Research question

Two research questions:

- Which adverse health requirements are signalled with a job-specific WHS in working fire fighters?
- How often are adverse health requirements, found with WHS, the starting point of occupational physicians for interventions for fire fighters?



Method- I

Participants

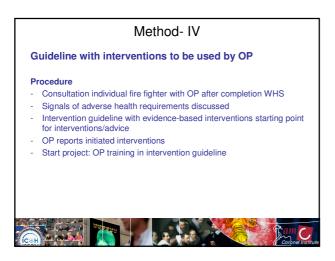
- 3 fire departments in the Netherlands
- 278 fire fighters performed WHS
 - Male (n=232); Female (n=46)
- Professional (n=147); Volunteer (n=131)
- 5 occupational physicians (OP) involved

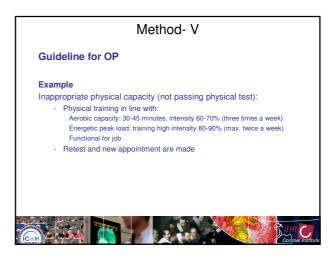


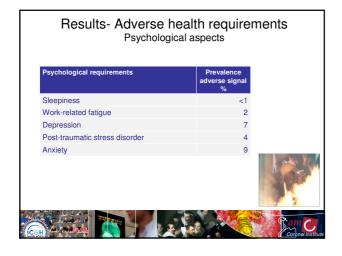
Method-II WHS for fire fighters Physical aspects Feedback OP -airways/lungs -sleepiness -(colour) vision -consult with guideline by occupational physician for individual fire -cardio-respiratory fatigue -depression -PTSD -musculoskeletal aspects -carrying capacity -waist circumference -anxiety -blood pressure fighter



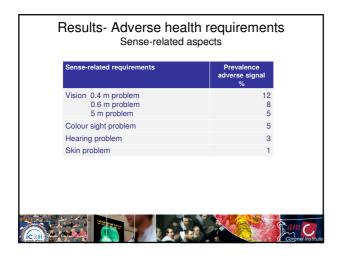




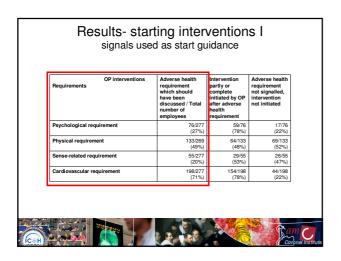


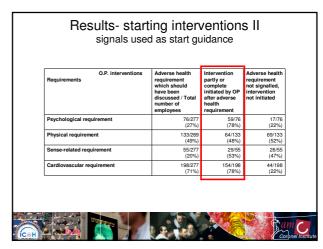


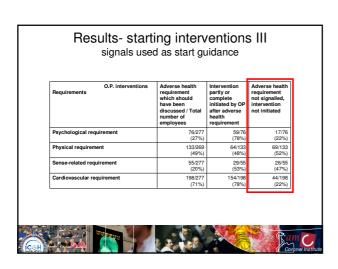


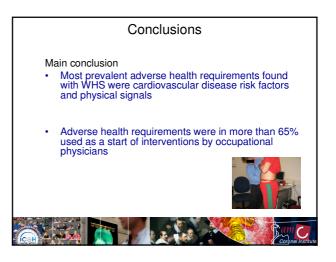












Recommendation and future research

- Training OPs: pay attention to interventions about physical and sense-related requirements
- Researchers should study why OPs don't follow the guideline, and make inventory of OPs' own (evidence-based) interventions to be add to guideline
- Study compliance of fire fighters to interventions advised by OP



Thank you for your attention! This study was part of my PhD-thesis about WHS in fire fighters: you are very welcome to receive one! m.j.plat@amc.nl