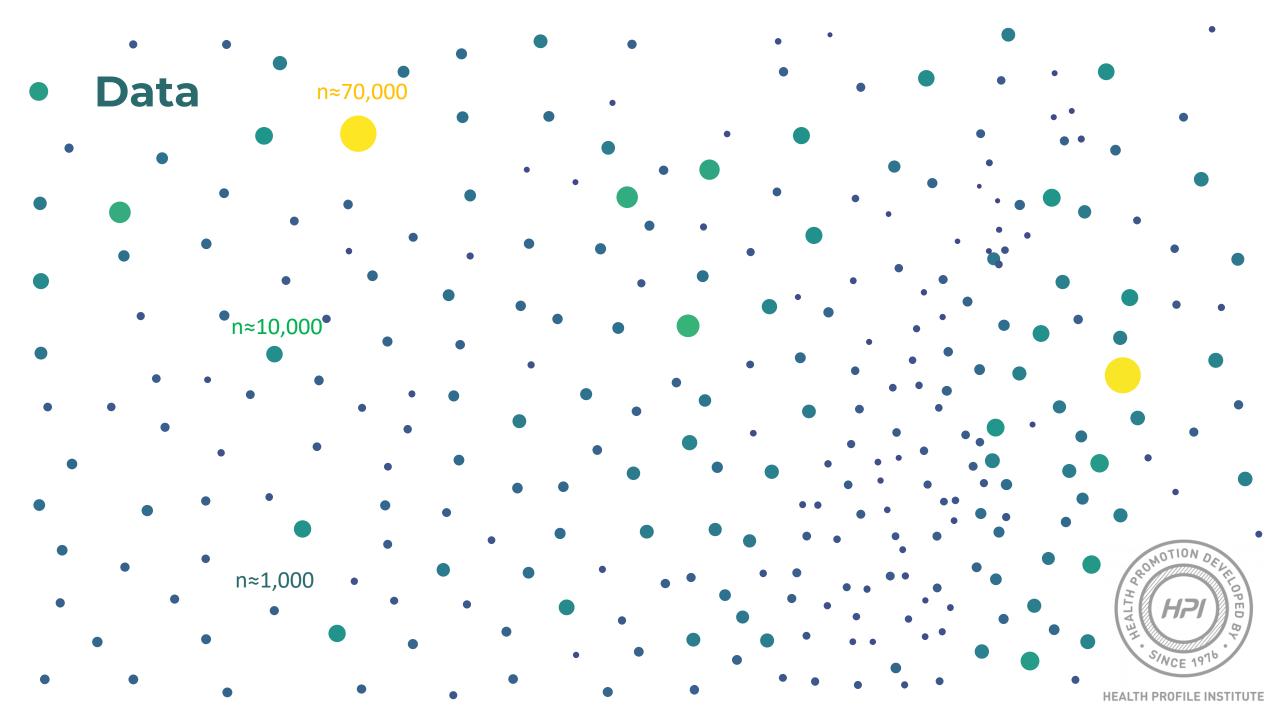




Kondition, fysisk arbetsbelastning och livsstilsrelaterade faktorer i yrkesgrupper

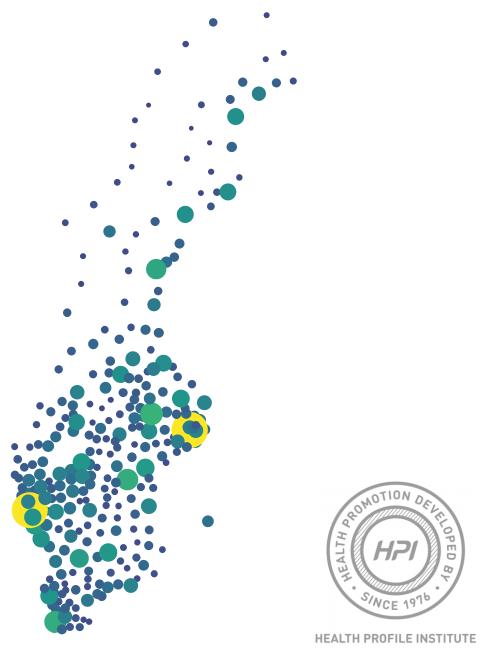
Företagshälsovårdsdata i forskning





Hälsoprofilbedömning - Metod som kombinerar

- Questionnaire
- Physiological tests
- Interview with test leader



Health Profile Assessments - Method combining

- Questionnaire
- Physiological tests
- Interview with test leader

Questionnaire

Physical activity pattern
Other lifestyle variables
Perceived health and symptoms

Physiological measurements and tests

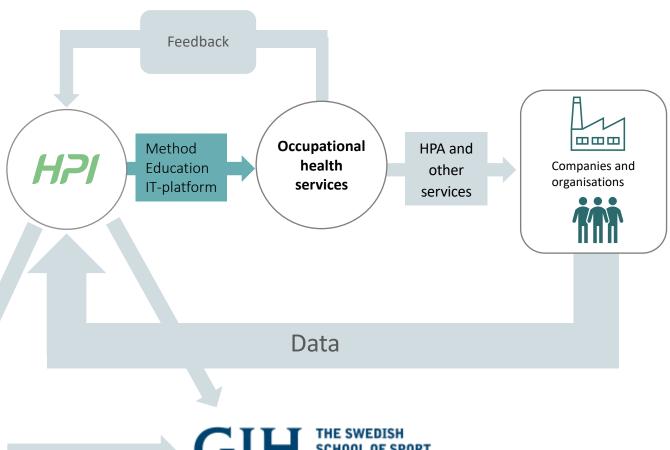
Cardiorespiratory fitness (Åstrand test) Blood pressure BMI

Register data

Cardiovascular disease (National Board of Health and Welfare)
Sickness absence (Swedish Social Insurance Agency)
Occupational codes (Statistics Sweden)

Health profile institute (HPI) Started 1976, training coaches in occupational health care companies

Central database in 1995

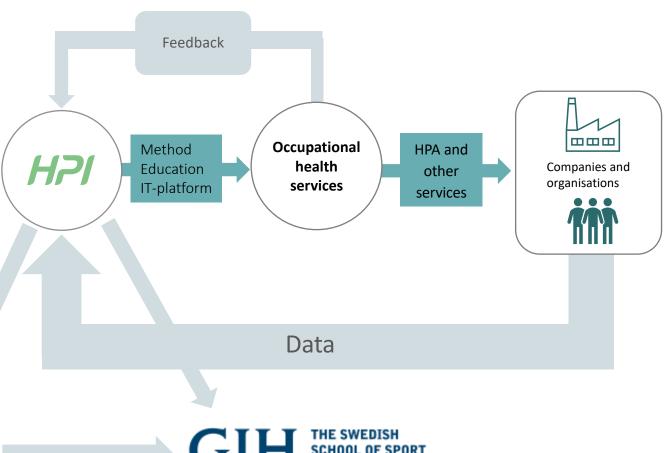


National registries



Health profile institute (HPI) Started 1976, training coaches in occupational health care companies

Central database in 1995

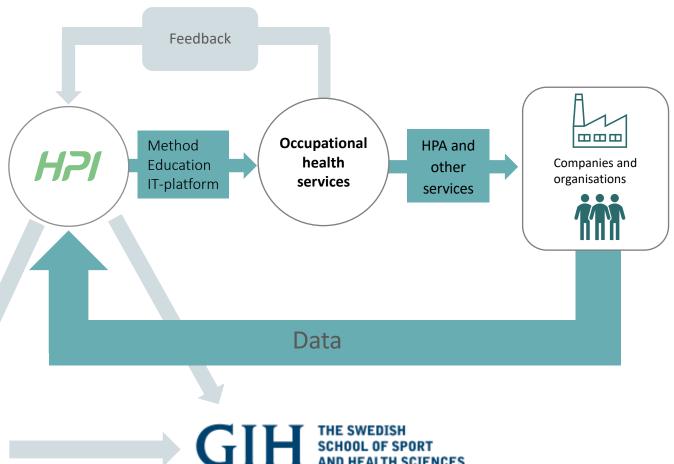


National registries



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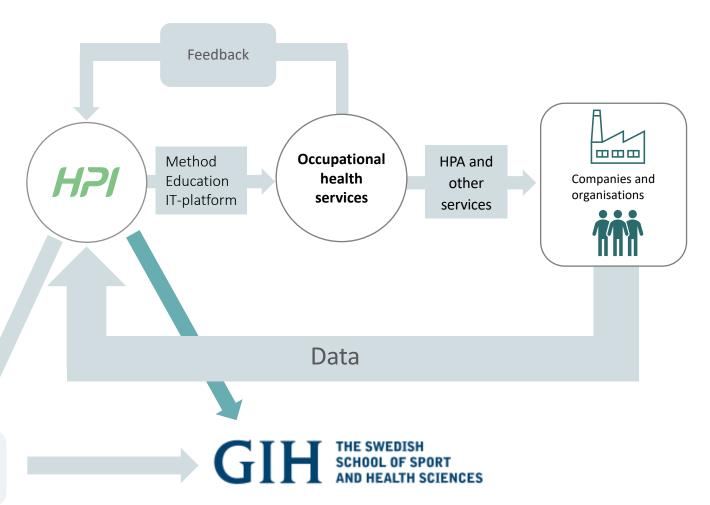


National registries



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Central database in 1995



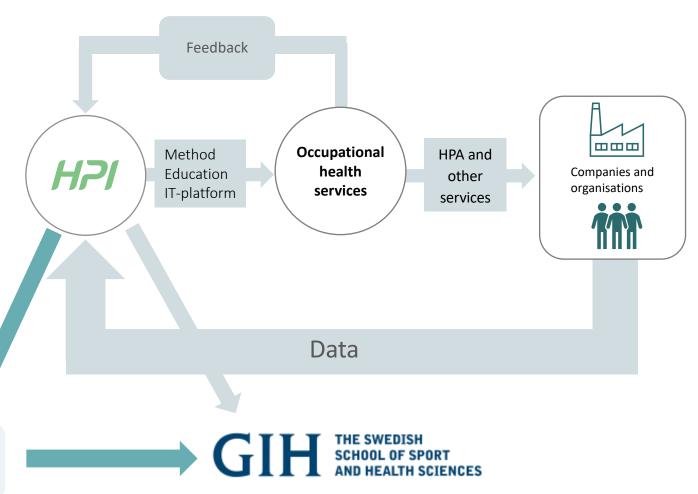
National registries

Health profile institute (HPI) Started 1976, training coaches in occupational health care companies

National

registries

Central database in 1995



Paper I

Välsänen D, Kallings LV, Andersson G, Wallin P, Hemmingsson E, Ekblom-Bak E. Lifestyle-associated health risk indicators across a wide range of occupational groups: a cross-sectional analysis in 72,855 workers. BMC Public Health. 2020 Nov 420(1):1656.

Identifiera Iivsstilsfaktorer I olika yrkesgrupper





Väisänen D, Kallings L, Andersson G, Wallin P, Hemmingsson E, Stenling A, Ekblom-Bak E. Mediation of lifestyle-associated variables on the association between occupation and incident cardiovascular disease. Prev Med. 2023 Feb 1;167:107411.

Kopplat till patientregistret för att undersöka hjärt och kärlssjukdom



Paper IV

Välsånen D, Kallings L, Andersson G, Wallin P, Hemmingsson E, Stenling, Ekblom-Bak E, Johansson P, Paulsson S, Nyman T, Svartengren M, Ekblom-Bak E.

Cardiorespiratory fitness moderates the association between occupational physical workload and sickness absence. (Manuscript under review).

Kopplat till patientregistret för att undersöka sjukskrivning



Paper II

Väisänen D, Kallings LV, Andersson G, Wallin P, Hemmingsson E, Ekblom-Bak E. Cardiorespiratory Fitness in Occupational Groups-Trends over 20 Years and Future Forecasts. Int J Environ Res Public Health. 2021 Aug 10;18(16):8437.

Undersöka sekulära trender I kondition



Paper I

Väisänen D, Kallings LV, Andersson G, Wallin P, Hemmingsson E, Ekblom-Bak E. Lifestyle-associated health risk indicators across a wide range of occupational groups: a cross-sectional analysis in 72,855 workers. BMC Public Health. 2020 Nov 4;20(1):1656.

Identifiera livsstilsfaktorer I olika yrkesgrupper



Design and characteristics

Cross-sectional observational study

Lifestyle-related risk factors

- No regular exercise
- High sitting in leisure
- Physically demanding work
- High sitting at work
- Daily smoking
- Poor diet
- Poor perceived health
- Low Cardiorespiratory fitness
- Obesity
- Hypertension

Year: 2014-2019

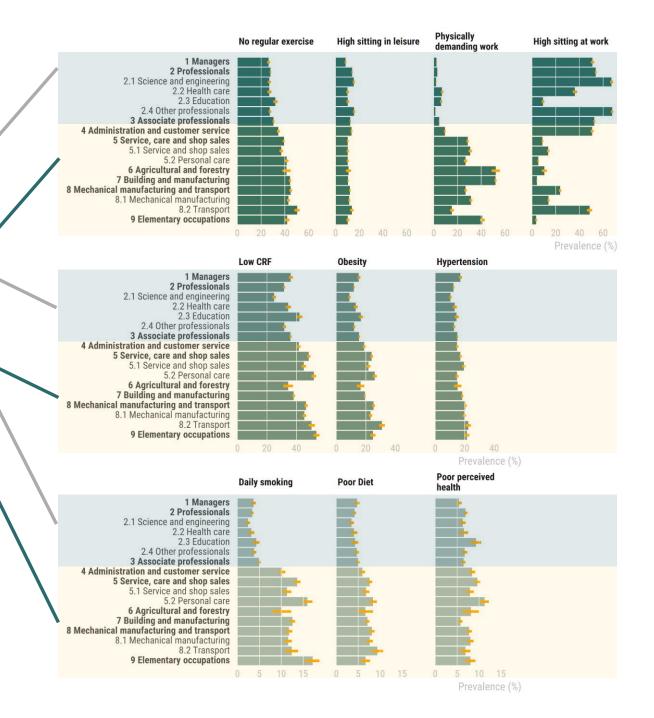
Participants: 72,855

Men: 59%

Prevalence of lifestyle related health risk factors

White-collar high-skilled

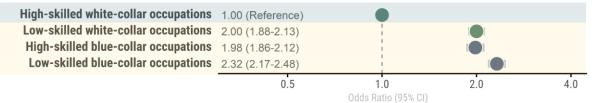
Blue-collar and low-skilled



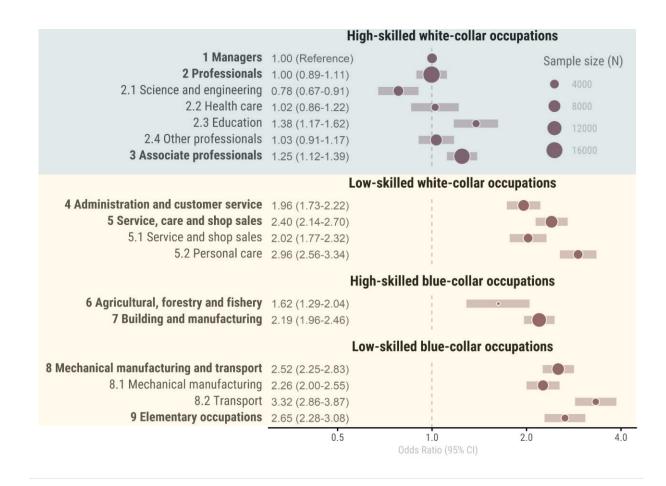
Clustered risk of 3≥ health risk factors.

Α

High and low-skilled white and blue-collar occupations



В



Paper II

Väisänen D, Kallings LV, Andersson G, Wallin P, Hemmingsson E, Ekblom-Bak E. Cardiorespiratory Fitness in Occupational Groups-Trends over 20 Years and Future Forecasts. Int J Environ Res Public Health. 2021 Aug 10;18(16):8437.

Undersöka sekulära trender I kondition



Design and characteristics

Cross-sectional

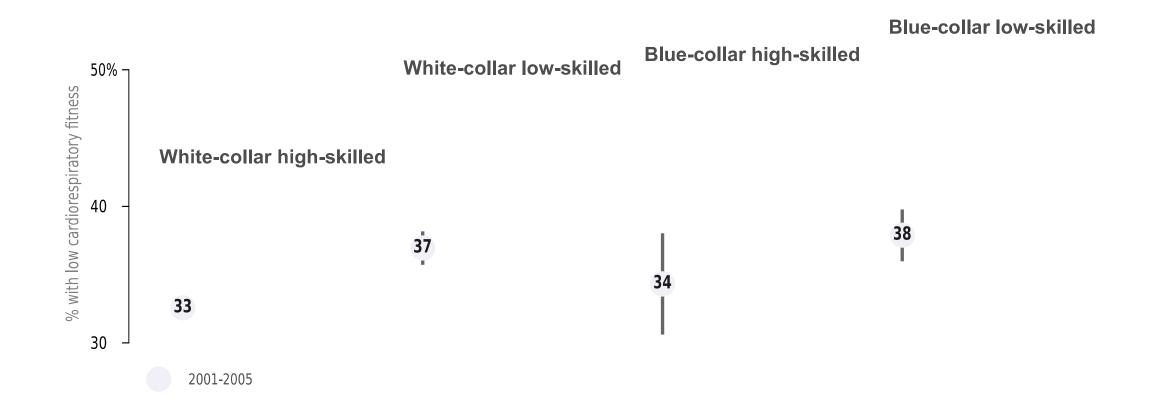
Secular trends

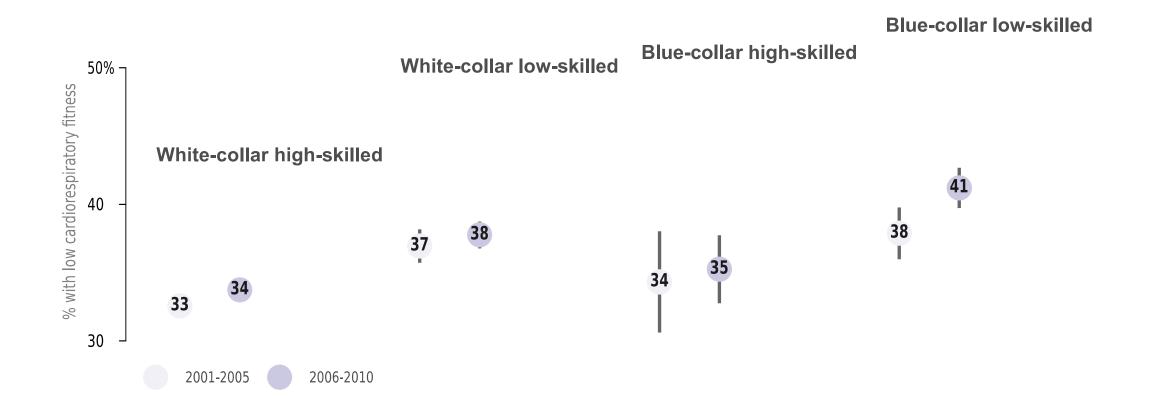
Estimated VO₂max

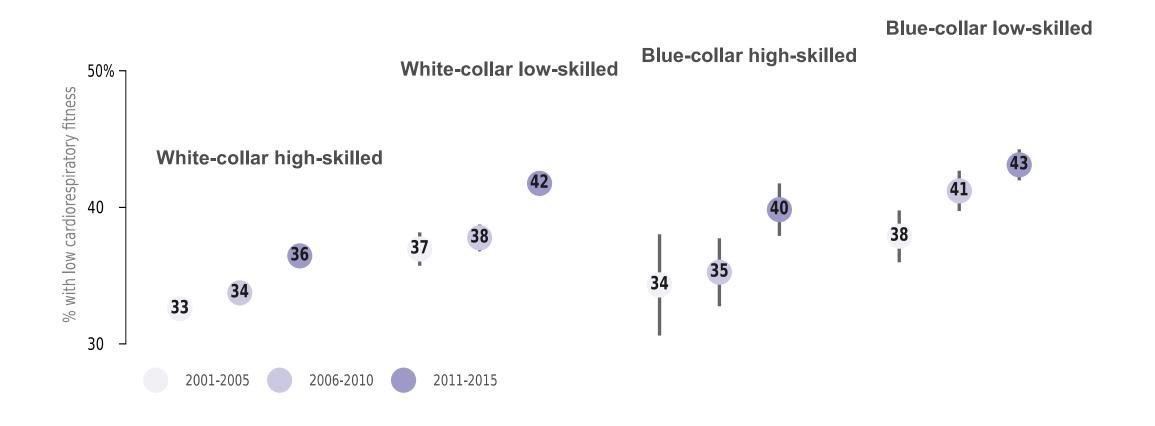
Åstrand test

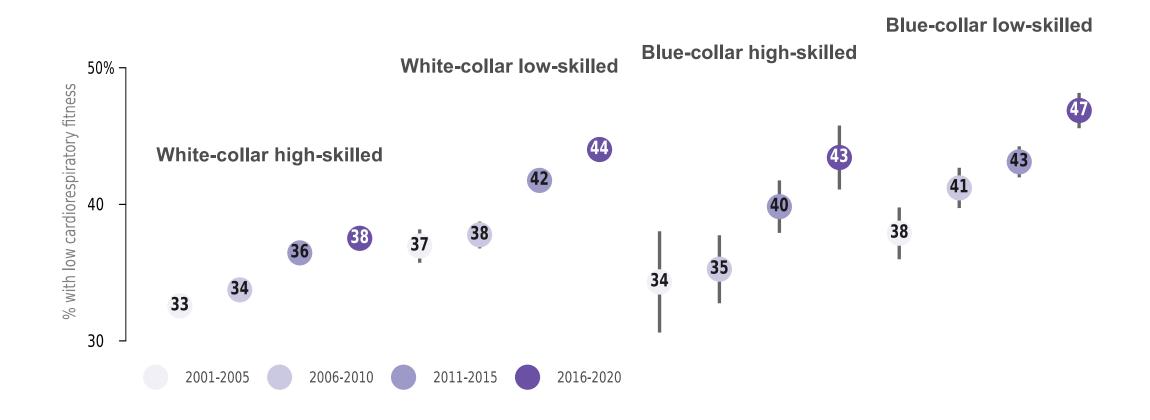
Years: 2001 to 2020

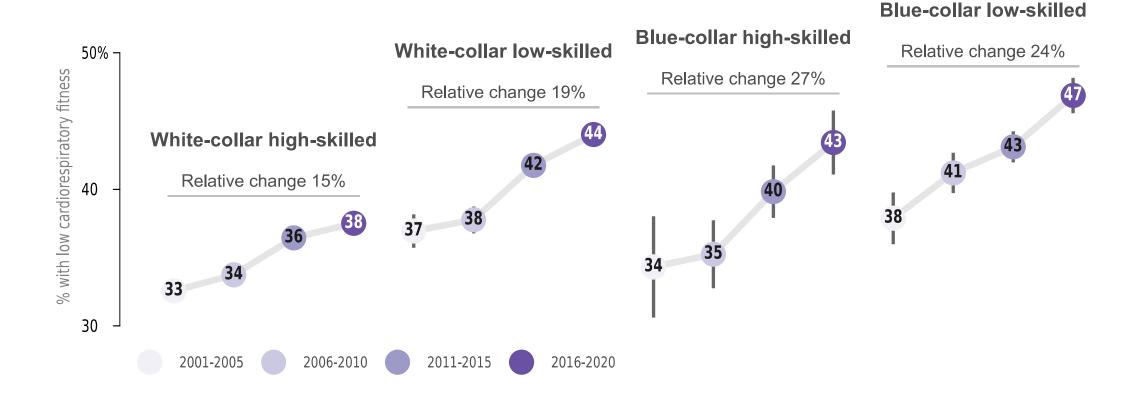
Assesments: 516,122



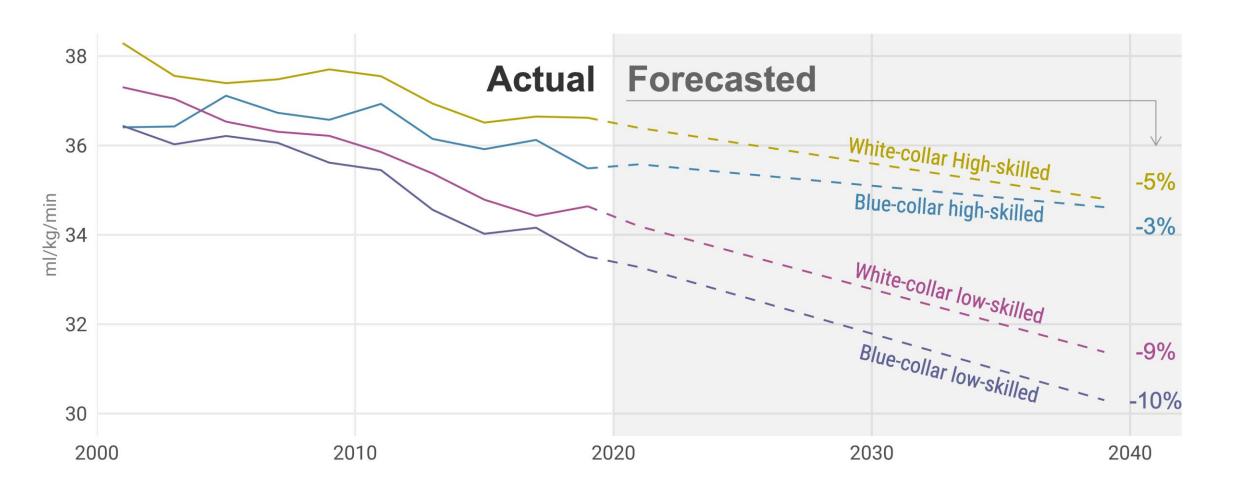








Trends in fitness in occupational groups and future forecast



Paper III

Väisänen D, Kallings L, Andersson G, Wallin P, Hemmingsson E, Stenling A, Ekblom-Bak E.

Mediation of lifestyle-associated variables on the association between occupation and incident cardiovascular disease. Prev Med. 2023 Feb 1;167:107411.

Kopplat till patientregistret för att undersöka hjärt och kärlssjukdom



Design and characteristics

Cohort-study

Exposure: Occupation

Outcome: Cardiovascular disease

Mediatiors:

Cardiorespiratory fitness (ml/min/kg)

Cardiorespiratory fitness (ml/min/m²)

BMI

Smoking

Exercise

Diet

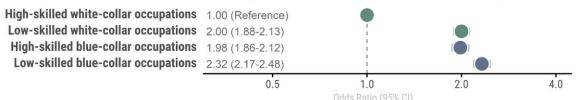
Participants: 304,702

Age: 42.5 years (18–75)

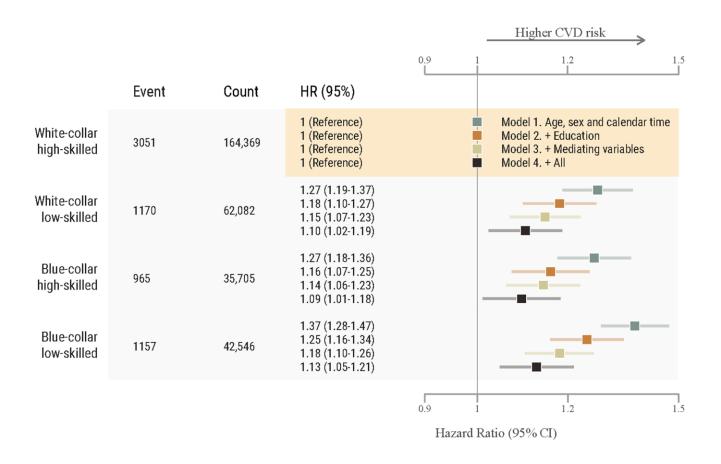
Women: 47%



High and low-skilled white and blue-collar occupations



Associations between occupational group and cardiovascular disease



Paper IV

Väisänen D, Kallings L, Andersson G, Wallin P, Hemmingsson E, Stenling, Ekblom-Bak E, Johansson P, Paulsson S, Nyman T, Svartengren M, Ekblom-Bak E.

Cardiorespiratory fitness moderates the association between occupational physical workload and sickness absence. (Manuscript under review).

Kopplat till patientregistret för att undersöka sjukskrivning



Design and characteristics

Cohort study

Inclusion criteria:

- Mainly low education occupational groups
- Variation in occupational physical workload

Exposure: Occupational

groups

Outcome: Sickness

absence in

- Psychiatric
- Musculoskeletal
- Cardiorespiratory

Year: 1982-2020

Participants: 77,366

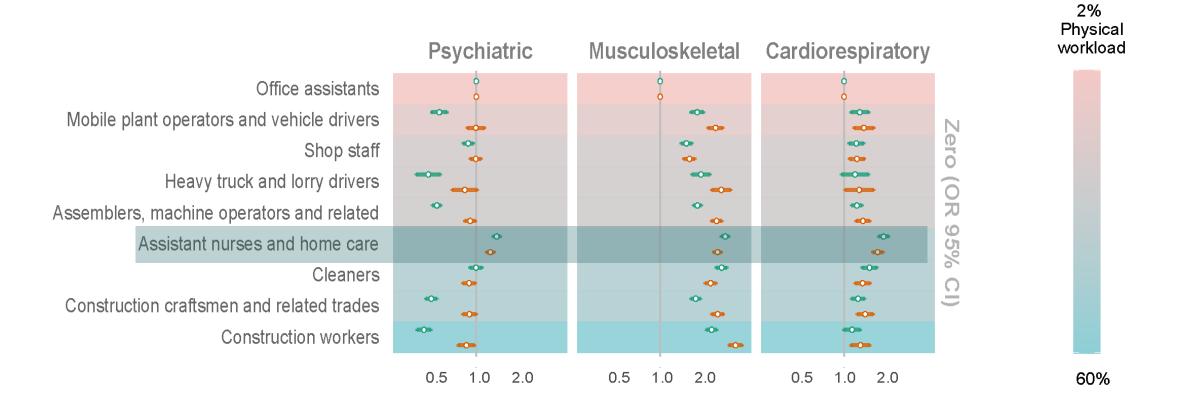
Incidence rate: 31%

Sick days: 4,852,589 during a

median of 10.8 years

Incidence of sickness absence

- M1. age + calendar time + earlier event
- M2. + sex + BMI + smoking + exercise + work stress + educat



Konklusion



Data från företagshälsovården är användbar för forskning på den arbetande befolkningen



Efter etiskt godkännande är det fritt fram att använda registerdata



Det handlar om stora mängder data där det finns stora möjligheter att studera olika forskningsämnen.

