Reviewer's report

Title: Register-based data of psychosocial working conditions and occupational groups as predictors of disability pension due to musculoskeletal diagnoses: a prospective cohort study of 24 543 Swedish twins

Version: 2 Date: 16 May 2013

Reviewer: Anne Juvani

Reviewer's report:

Re-review for the manuscript

The authors have been able to answer to all my major questions and concerns and thus I now have only minor revisions.

#1 The manuscript would still benefit from a clearer hypothesis in the intro.

#2 As I am not familiar with twin studies, and had difficulties to fully understand the study during the first review, the MS would benefit, in my opinion, if authors provided some of the responses given to me also in the MS (for example response #7 in major revisions would be useful in intro or discussion).

#3 The authors do not provide info on the question if the manuscript was reviewed by a professional statistician.

As I am not qualified to assess statistical issues I cannot be sure about statistical issues in the ms.

#4 In my opinion, family background is not a true confounding factor (does not affect either of the exposures) and thus emphasizing the fact that the associations were not affected by adjustment for family background remains questionable for me.

#5 The abstract of the MS needs to be revised. Especially the methods are not clear enough (the association between JEM and job strain needs to be explained).

#6 Please consider revising the added sentences to the results:
- first paragraph: social support predicted dp but only in model 1 associations
- next added sentences: you now write: each single unit decrease/ increase in control/ demands remained significant predictor for...

Please consider revising (f. ex. each single unit decrease in demands statistically significantly added risk for dp).