S46

Resúmenes

The impact of socioeconomic status on arthritis and osteoporosis

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Conflictos de interés: Los autores de daran no tener conflictos de interés alguno.

Abstract

Background: Lowsocioeconomic status has been shown to be associated with both osteoarthri s and rheumatoid arthri s, impacing on outcomes and even the development of arthri s. However the associa on with osteoporosis has been less clear. The reasons for the associa on may be linked to socioeconomic status through educa onal aspects, income, employment type and even area of residence. Purpose: The purpose of this study was use a monthly surveillance and monitoring system to examine the prevalence of self-reported osteoarthri s, rheumatoid arthri s and osteoporosis over me and the associa on with measures of socioeconomic status.

Study/Interven on Design: A Computer Assisted Telephone Interview (CATI) is used to conducted surveys with randomly selected par cipants.

Methods: The South Australian Monitoring and Surveillance System is a con nuous disease and risk factor surveillance system which commenced in South Australia, Australia in 2002. Each month 600 telephone interviews are conducted with par cipants of all ages randomly selected ini ally from the Electronic White Pages and now from the Integrated Public Number Database. Adults aged 16 years and over are asked whether they had been told by a doctor that they had arthri s and if the response was "yes" they were further asked to define which type (osteoarthri s (OA) or rheumatoid arthri s (RA)). Par cipants were also asked if they had ever been told by a doctor that they had osteoporosis. Demographic variables (age, sex) as well as educa on level, income, work status are also asked and the Socioeconomic Indicators For Areas (SEIFA) Index of rela ve socio-economic disadvantage, developed by the Australian Bureau of Sta s cs (ABS) based on Census data, is determined from par cipant's residen al postcode. All data are weighted by age, sex, probability of selec on in the household to the relevant Australian Census or Es mated Residen al popula on data provided by the ABS. Data for those aged

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S47

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18 years and over from 2003 to 2014 are used in this study. Results: Overall, n=73972 respondents aged 18 years and over have par cipated in the survey over between 2003 and 2014. Of these 11.9% (95% Cl 11.7-12.1) self-reported that they had been told by a doctor that they have OA and 2.9% (95% Cl 2.8-3.1) RA. With regard to osteoporosis, 4.5% (95% Cl 4.3-4.6) reported that they had this condi on. Over me there has been a significant increase in the prevalence of OA (from 10.3% in 2003 to 13.9% in 2014; linear by linear associa on 2=31.7, p0.001), a decrease in the prevalence of RA (3.0% in 2003 to 2.3% in 2014; linear by linear associa on 2=5.4, p=0.02). There has been no significant change in the prevalence of osteoporosis (3.8% in 2003 to 4.5% in 2014). Logis cregression analysis demonstrates that those in the two least disadvantaged SEIFA quin les were less likely to report OA in 2003 and 2014 when adjusted for age and sex, while a higher level of educa on was associated with lower prevalence of OA and RA, and lower income with a higher prevalence of OA, RA and osteoporosis. In terms of work status, those who were unable to work were more likely to report OA, RA and osteoporosis.

Conclusion: Ongoing surveillance provides the ability to examine health issues over a period of me. Over a 12 year period, measures of socioeconomic status have consistently been associated with musculoskeletal condi ons, highligh ngan ongoing need to target interven ons and informa on to these groups.