



Osteoporosis and fracture risk associated with inhaled corticosteroid use among Swedish COPD patients: the ARCTIC study.

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Author: Christer Janson
Karin Lisspers
Björn Ställberg
Gunnar Johansson
Florian S Gutzwiller
Karen Mezzi
Linda Mindeholm
Bine Kjoeller Bjerregaard
Leif Jorgensen
Kjell Larsson

Author Affiliation: Respiratory, Allergy and Sleep Research, Dept of Medical Sciences, Uppsala University, Uppsala, Sweden
christer.janson@medsci.uu.se.

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Abstract: The effect of inhaled corticosteroids (ICS) on the risk of osteoporosis and fracture in patients with chronic obstructive pulmonary disease (COPD) remains uncertain. The aim of this study was to assess this risk in patients with COPD. Electronic medical record data linked to National Health Registries were collected from COPD patients and matched reference controls at 52 Swedish primary care centres from 2000 to 2014. The outcomes analysed were the effect of ICS on all fractures, fractures typically related to osteoporosis, recorded osteoporosis diagnosis, prescriptions of drugs for osteoporosis and a combined measure of any osteoporosis-related event. The COPD patients were stratified by the level of ICS exposure. A total of 9651 patients with COPD and 597454 matched reference controls were analysed. During the follow-up, 19.9% of COPD patients had at least one osteoporosis-related event compared with 12.9% of reference controls (p

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