

Other Articles

A threatening influenza
pandemic

heavy smokers (who did not have cancer).

Findings

We identified and analysed 454 (5%) people with oral cancer (279 men, 175 women, mean [SD] age at diagnosis $63 \cdot 3$ [$13 \cdot 2$] years) and 454 matched controls (n=908); 263 (29%) had used NSAIDs, 83 (9%) had used paracetamol (for a minimum of 6 months), and 562 (62%) had used neither drug. NSAID use (but not paracetamol use) was associated with a reduced risk of oral cancer (including in active smokers; hazard ratio 0.47, 95% CI 0.37-0.60, p<0.0001). Smoking cessation also lowered the risk of oral cancer (0.41, 0.32-0.52, p<0.0001). Additionally, long-term use of NSAIDs (but not paracetamol) was associated with an increased risk of cardiovascular-disease-related death (2.06, 1.34-3.18, p=0.001). NSAID use did not significantly reduce overall mortality (p=0.17).

Interpretation

Long-term use of NSAIDs is associated with a reduced incidence of oral cancer (including in active smokers), but also with an increased risk of death due to cardiovascular disease. These findings highlight the need for a careful risk-benefit analysis when the long-term use of NSAIDs is considered.

Affiliations

Pepartment of Medical Oncology and Radiotherapy, The Norwegian Radium Hospital, Montebello, 0310 Oslo, Norway

Department of Biostatistics and Applied Mathematics, University of Texas, MD Anderson Cancer Center, Houston, TX, USA

♀ Department of Thoracic/Head and Neck Medical Oncology, University of Texas, MD Anderson Cancer Center, Houston, TX, USA

₫ Department of Clinical Cancer Prevention, University of Texas, MD Anderson Cancer Center, Houston, TX, USA

■ The National Hospital and The Norwegian Cancer Registry, Oslo, Norway

f Research Foundation of The Norwegian Radium Hospital, Montebello, Norway
 g Division of Cytology, Department of Pathology, The Norwegian Radium
 Hospital, Montebello, Norway

▶ Department of Medical Informatics, The Norwegian Radium Hospital, Montebello, Oslo, Norway

¹ Department of Pathology, Helsinki University Central Hospital, and Molecular and Cancer Biology Research Programme, Biomedicum Helsinki, University of Helsinki, Helsinki, Finland

i Department of Physics, Norwegian University of Science and Technology, Trondheim, Norway

▲ Department of Medical Oncology and Radiotherapy, The Norwegian Radium Hospital, Montebello, Norway

! Department of Medicine, Weill Medical College of Cornell University, New York, NY, USA

Correspondence to: Dr Jon Sudbø

• Printer friendly version

Article Options

[•] Full Text 🔶

[•] PDF (184kb) 🔶

- **Related Articles**
- <u>Cyclo-oxygenase 2: a</u> pharmacological target for...
- Inhibitors of cyclo-oxygenase 2: a new class of ...
- More related articles...

Other Articles

- A threatening influenza pandemic
- Long-term immunogenicity of hepatitis B...

- <u>Non-steroidal anti-inflammatory</u> <u>drugs and risk of...</u> Non-steroidal anti-inflammatory
- drugs and...
- Infliximab induction and maintenance therapy for...
- Effect of single dose of SA 14-14-
- 2 vaccine 1 year...

Help | Feedback | Privacy Policy | Terms & Conditions | Contact Us Copyright © 2006 Elsevier Limited. All rights reserved.