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Questa è la Versione finale referata (Post print/Accepted manuscript) della seguente pubblicazione:

Original Citation:

ATRIAL FIBRILLATION AND CANCER: EVIDENCE FOR AN EPIDEMIOLOGICAL LINK / Stefano Fumagalli;Alessandro Barchielli;Francesca Tarantini;Debbie Gabbai;Marta Casalone Rinaldi;Stefania Fracchia;Anna Teresa Roberts;Luigi Padeletti;Niccolò Marchionni. - In: JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. - ISSN 0735-1097. - STAMPA. - 59:(2012), pp. E615-E615. [10.1016/S0735-1097(12)60616-0]

Availability:

This version is available at: 2158/771328 since:

Published version:

DOI: 10.1016/S0735-1097(12)60616-0

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**ATRIAL FIBRILLATION AND CANCER: EVIDENCE FOR AN
EPIDEMIOLOGICAL LINK**

Stefano Fumagalli, Alessandro Barchielli, Francesca Tarantini, Debbie Gabbai,
Marta Casalone Rinaldi, Stefania Fracchia, Anna Teresa Roberts, Luigi Padeletti,
and Niccolò Marchionni

J. Am. Coll. Cardiol. 2012;59;E615
doi:10.1016/S0735-1097(12)60616-0

This information is current as of April 13, 2012

The online version of this article, along with updated information and services, is
located on the World Wide Web at:

http://content.onlinejacc.org/cgi/content/full/59/13_Suppl_S/E615

JACC

JOURNAL of the AMERICAN COLLEGE of CARDIOLOGY





Arrhythmias

ATRIAL FIBRILLATION AND CANCER: EVIDENCE FOR AN EPIDEMIOLOGICAL LINK

ACC Moderated Poster Contributions
McCormick Place South, Hall A
Monday, March 26, 2012, 9:30 a.m.-10:30 a.m.

Session Title: Arrhythmias: AF/SVT: Morbidity and Mortality associated with Atrial Arrhythmias
Abstract Category: 16. Arrhythmias: AF/SVT
Presentation Number: 1239-265

Authors: *Stefano Fumagalli, Alessandro Barchielli, Francesca Tarantini, Debbie Gabbai, Marta Casalone Rinaldi, Stefania Fracchia, Anna Teresa Roberts, Luigi Padeletti, Niccolò Marchionni, ICU, Unit of Gerontology and Geriatric Medicine, University of Florence and AOU Careggi, Florence, Italy, Epidemiology Unit, Local Health Unit 10, Florence, Italy*

Background: Atrial fibrillation (AF) is the most common arrhythmia encountered in clinical practice. Hypertension, heart failure, valvular and coronary artery disease are the most frequent cardiovascular conditions related to AF. The association of the arrhythmia with chronic inflammation and increased mortality let us hypothesize a link with other relevant non-cardiac diseases. Aim of this study was to analyze the relationship between AF and cancer in the Florence district (N=810,000 inhabitants).

Methods: All patients hospitalized for AF (as primary diagnosis) for the first time between 2005 and 2007, with no history of cancer in the previous 5 years, were identified through the Tuscany Inpatient Registry and enrolled in the study. The incidence of cancer during follow-up (closed in 2010) was analyzed using the Tuscany Cancer Registry and compared with that of the general population to estimate the standardized incidence ratio (SIR).

Results: AF was recorded in 16,986 hospital admissions; in 4,270 (25.1%) of those, AF was the primary diagnosis. Because some patients were hospitalized for AF more than ones, the total number of subjects enrolled was 3,323. After the exclusion of patients with a history of cancer (N=1,130), or with incomplete data (N=350), the number remaining for analysis was 1,843. The incidence of cancer in AF patients during follow-up was significantly higher than in the general population (Cases Observed - N=133 vs. Expected - N=88; SIR: 1.51, 95% CI: 1.27-1.79; p<0.001); this was true for men (SIR: 1.40, 95% CI: 1.10-1.75; p=0.003) and women (SIR: 1.56, 95% CI: 1.20-2.02; p<0.001). The analysis by age demonstrated that SIR was significant for subjects aged >65 years (<65: p=0.12; 65-74: p<0.001; >75 years: p=0.002). Stomach (SIR: 1.77; p=0.03), kidney (SIR: 2.79; p<0.001) and brain (SIR: 5.17; p<0.001) were the most frequently observed localizations of cancer in the AF population.

Conclusions: In elderly patients hospitalized for AF the incidence of cancer during follow-up is higher than in the general population. Further studies will be necessary to identify the subset of patients at higher risk to be closely monitored for the presence of malignant neoplasms.

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