

Breast cancer incidence in Spain drops in early 2000s after decades of increasing rates

October 26 2009

After a steady increase of invasive breast cancer cases in Spanish women during the 1980s and 1990s, incidence rates abruptly declined starting in 2001—a trend most likely explained by a period effect linked to screening saturation, according to a new study published online October 26 in the Journal of the national cancer institute.

Marina Pollán, M.D., Ph.D., of the Centro Nacional de Epidemiología, Instituto de Salud Carlos III in Madrid, and colleagues identified invasive [breast cancer](#) cases from population-based cancer registries in Spain that had at least 10 years of uninterrupted registration over the period 1980-2008. The researchers took into account the starting year of the corresponding breast cancer screening program for the population and the year in which the screening program achieved full coverage of the target population.

Overall incidence rates rose by 2.9% annually during the 1980s and 1990s, but there was a statistically significant change in this trend in 2001, when incidence declined annually by 3.0%. There was a steady increase in incidence for women younger than 45 years, an abrupt downturn in 2001 for women aged 45-64 years, and a gradual leveling off in 1995 for women aged 65 years or older.

The sharp decline could be a result of the introduction of screening programs, according to the authors. When screening programs are introduced, cancer incidence can rise because diagnoses occur earlier than they would have without screening. But this rise is temporary.

"Once the program is in place and screening coverage of the target population reaches a plateau, incidence rates tend to decrease because the pool of undiagnosed prevalent cases has been reduced," the authors write. "We found that the change point in breast cancer incidence in Spain occurred in 2001, but this overall trend is likely to be the consequence of changes acting on different age groups and regions at different times."

Source: [Journal of the National Cancer Institute](#) ([news](#) : [web](#))

Citation: Breast cancer incidence in Spain drops in early 2000s after decades of increasing rates (2009, October 26) retrieved 8 May 2024 from <https://medicalxpress.com/news/2009-10-breast-cancer-incidence-spain-early.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--