

# Translating Evidence from Research to Practice for Select Interventions in Cancer Control

## Background

The slow transfer of research evidence to practice is a problem that is widely recognized by researchers, practitioners, policy makers, and patients. According to a review published in 2000 by Balas and Boren, it takes an average of **17 years** for research evidence to reach clinical practice (50% uptake). This finding, published 17 years ago, was based on nine medical procedures in the 1980s. Despite the frequent use of this statistic to highlight the problem of slow research translation, we do not know its relevance to cancer research nor to more recent trends. We explore the amount of time it takes for translation of research to uptake of evidence-based practice in cancer. Our objective was to determine the time it took for evidence from the seminal publication to reach at least 50% uptake in the target population.



### **Methods**

We included evidence-based programs, practices, or interventions (herein referred to as EBPs) in cancer prevention and screening with professional guidelines and population-based data on uptake. We included five EPBs: clinicians' advice to quit smoking, HPV vaccination, HPV testing, colorectal cancer screening, and mammography. To determine the time from research publication to implementation, we identified the seminal study, defined as a published article that provided sufficient evidence for the effectiveness of the EBP. All but one of our EBPs had an RCT as the seminal study. The exception, HPV testing, was an observational study. Next we identified professional guidelines issued wholly or in part by a government agency that were concordant with the findings of the seminal study. We also searched for systematic reviews to determine if the evidence from the seminal study had been incorporated into the review. The data on uptake of the EBP was reviewed for all years where available, to follow any trends.

We calculated the number of years from publication of the seminal study to initial publication of the guideline to implementation, defined as 50% uptake in the population for which that EBP was recommended. We also calculated the average number of years to implementation for all five EBPs. We also traced other important events along the pathway to implementation that occurred after the seminal study and contributed to the development of the full evidence base leading to a guideline or a review.

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