



Cette présentation a été effectuée le 26 octobre 2006, au cours du Symposium "La santé publique et le dépistage du cancer : espoirs et réalités" dans le cadre des Journées annuelles de santé publique (JASP) 2006. L'ensemble des présentations est disponible sur le site Web des JASP, à l'adresse http://www.inspq.qc.ca/jasp.































- Mortality began declining very soon after screening became widespread
- Population studies have been mostly negative
 - Ecologic studies
 - Case-control studies
- Other factors have changed
 - Radical prostatectomy, hormone therapy
- Concern about costs of screening, particularly overdiagnosis





























	Arch Internal Med
ORIGINAL IN	VESTIGATION
The Effectiveness of Screer	ning for Prostate Cancer
A Nested Case-Control Study	
John Concato, MD, MPH; Carolyn K. Wells, MPH; Ralph I. H Dan R. Berlowitz, MD, MPH; Gregory Frochlich, MD; Dawn Gerald A. Gehr, MD; Nabil H. Raheb, MD; Gail Sullivan, MI	'orwitz, MD; David Penson, MD; Graeme Fincke, MD; a Blake, MD; Martyn A. Vickers, MD;), MPH; Peter Peduzzi, PhD
Background: Screening for prostate cancer is done commonly in clinical practice, using prostate-specific antigen (PSA) tests or digital rectal examination (DRE). Evidence is lacking, however, to confirm a survival benefit among screened patients. We evaluated the effectiveness of PSA, with or without DRE, in reducing	DRE was performed for screening prior to the diagnosis of prostate cancer among case patients, with the same time interval for control patients. The association of screening and overall or cause-specific (prostate cancer) mortality was adjusted for race and comorbidity.
benefit of screening was not found	in our primary analysis assessing
SA screening and all-cause mortalit	y (adjusted OR 1.08, 95% CI 0.71-
.64), nor in a secondary analysis of	PSA and/or DRE screening and
ause-specific mortality (adjusted O	R 1.13, 95% CI 0.63-2.06)
were men who were alive at the time the corresponding case patient had died, matched (1:1 ratio) for age and Vet- erans Affairs facility. The exposure variable (determined	ommendations for obtaining "verbal informed consent" from men regarding such screening should continue.
blind to case-control status) was whether PSA testing or	Arch Intern Med. 2006;166:38-43

Case-Control Studies of PSA Screening: Limitations

- **1. Requires sufficient followup** to identify all deaths from prostate cancer among individuals diagnosed during the study period
- Requires ascertaining exposure to screening during the detectable preclinical period: misspecification or missing data will lead to an inflated OR
- 3. Requires **knowing the reason for the test**; incorrectly classifying diagnostic tests as screening tests will raise the OR
- 4. Challenging to separately estimate effects of PSA and DRE when both are conducted as part of a screening examination
- 5. Increasing use of the screening modality over time can attenuate the estimated OR















































Collaborators	
FHCRC	NCI
Lurdes Inoue	Eric Feuer
Seth Falcon	Angela Mariotto
Kent Karnofski	
Steve Zeliadt	CISNET Collaborators
Pam Shaw	Elizabeth Slate
Dave Penson, MD	Christopher Morrell
Noel Weiss	Alex Tsodikov
Preet Dhillon	
	Funding Source: CISNET U01, NCI
	CISN