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**RESEARCH ON TOBACCO IN INDIA  
(INCLUDING BETEL QUID AND ARECA NUT)**

An annotated bibliography of research on  
use, health effects, economics, and control efforts

**Cecily Stewart Ray**

**with Prakash Gupta and Joy de Beyer**

**August 2003**

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# Health, Nutrition and Population (HNP) Discussion Paper

## ECONOMICS OF TOBACCO CONTROL PAPER NO. 9

### RESEARCH ON TOBACCO IN INDIA (INCLUDING BETEL QUID AND ARECA NUT)

*An annotated bibliography of research on  
use, health effects, economics, and control efforts*

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Paper prepared for the World Bank for the meeting on Tobacco Control Research in India, held in New Delhi, India on April 10-11, 2002.

The on-line version of this annotated bibliography will be updated periodically. Readers are encouraged to send additional references and abstracts to the authors.

**Abstract:** This report is a compilation of references and abstracts of all research on tobacco in India from 1985 to 2003. Studies are organised by subject matter, and within each sub-topic, are arranged by year of publication with most recent studies listed first, and for studies published in the same year, alphabetically by author's last name. The studies include tobacco use surveys, studies on tobacco-related mortality, tobacco-related diseases both cancerous and non-cancerous, according to body system and site, and other health problems associated with tobacco use and environmental tobacco smoke. Other topics include the toxicity of tobacco products, educational interventions and the psychology of tobacco use, tobacco control measures and policies, reports on tobacco advertising and sponsorship and research into the tobacco health hazards faced by tobacco workers. It also includes studies on tobacco employment, tobacco growing and technology, and the economics of tobacco. The following databases were searched: Pub Med, Medline, and J-Gate (a new Indian database). The keywords used for the searches were '(Tobacco OR smoking) AND India', as well as names of diseases known from international research findings to be associated with tobacco, 'AND India'. In some cases, reports were excluded if they were duplicative, or the methodology or findings were unclear.

The report is also available on-line, at to <http://www.actindia.org/databases.html> or [www.actindia.org](http://www.actindia.org) -- click on "databases", or through [www.worldbank.org/tobacco](http://www.worldbank.org/tobacco). In future, all the abstracts will be available also on the WHO 'Health Internetwork' (HIN) website, that is under development. The electronic file is available upon request, from the authors.

**Keywords:** tobacco, nicotine, bidi, tendu, gutkha, paan masala, smoking, areca nut, betel-quid, chewing tobacco, smokeless tobacco, reverse smoking, chutta, environmental smoke, passive smoking, second-hand smoke, sidestream smoke, India, cancer, tuberculosis, pulmonary disease, CVD, coronary vascular disease, respiratory disease, stroke, peripheral vascular disease, adverse pregnancy outcomes, nutritional status, tobacco control, tobacco policy, economics of tobacco

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