

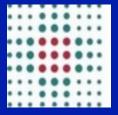
Fattori di rischio del carcinoma orale Elisabetta MERIGO

AMBULATORIO DI

PATOLOGIA E CHIRURGIA ORALE LASER

UNIVERSITA' DI PARMA













National Cancer Institute

at the National Institutes of Health

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cancers are often more treatable.

NCI Factsheet Head and Neck Cancers

. Treatment information for head and neck cancers

News

Head and Neck Cancers: Are You at Risk?

use. HPV infection is another risk factor. If found early, these

. Snapshot of NCI's investment in head and neck cancer

Head and neck cancer includes cancers of the mouth, nose, throat, sinuses, and salivary glands. At least 75 percent of these cancers are caused by tobacco (including smokeless tobacco) and alcohol.

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Changing the Conversation

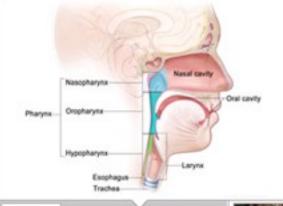
Priorities for the nation's investment in cancer research

Provocative Questions Project

Explore provocative research questions with the research community

NCI Budget Overview

Explore how NCI allocates appropriated funds



Head and Neck Cancers: Are You at Risk?



SEER 2012 Update: New Data on Cancer Trends

research



Reducing Cancer Health Disparities

Types of Cancer

Common Cancer Types

Bladder Cancer

Breast Cancer

Colon and Rectal Cancer

Endometrial Cancer

Kidney (Renal Cell) Cancer

Leukemia

Lung Cancer

Melanoma

Non-Hodakin Lymphoma

Pancreatic Cancer

Prostate Cancer

Thyroid Cancer

All Cancer Types

A to Z List of Cancers

Cancers by Body

Location/System

Childhood Cancers

Adolescents and Young Adults

Women's Cancers

Cancer Research News

Stanford study shows anxiety increases cancer severity in mice

Mayo Clinic identifies gene critical to development and spread of lung cancer

St. Jude study finds protein prevents DNA damage in the developing brain and might serve as a tumor suppressor

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NCI Cancer Bulletin

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at the National Institutes of Health

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En español

Head and Neck Cancers

Key Points

- Most head and neck cancers begin in the squamous cells that line the moist surfaces inside the head and neck.
- . Tobacco use, alcohol use, and human papillomavirus infection are important risk factors for head and neck cancers.
- Typical symptoms of head and neck cancers include a lump or sore (for example, in the mouth) that does not heal, a sore throat that does not go away, difficulty swallowing, and a change or hoarseness in the voice.
- · Rehabilitation and regular follow-up care are important parts of treatment for patients with head and neck cancers.

1. What are cancers of the head and neck?

Cancers that are known collectively as head and neck cancers usually begin in the squamous cells that line the moist, mucosal surfaces inside the head and neck (for example, inside the mouth, the nose, and the throat). These squamous cell cancers are often referred to as squamous cell carcinomas of the head and neck. Head and neck cancers can also begin in the salivary glands, but salivary gland cancers are relatively uncommon. Salivary glands contain many different types of cells that can become cancerous, so there are many different types of salivary gland cancer.

Cancers of the head and neck are further categorized by the area of the head or neck in which they begin. These areas are labeled in the figure below and listed in the table included in the answer to Question 3.

National Cancer Institute

at the National Institutes of Health

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Fattori di rischio per il cancro orale

- Fumo
- Masticare tabacco
- Alcool
- Abuso di collutori alcoolici
- HPV 16
- Dieta
- Esposizione al sole

- Noce di areca con/senza tabacco
- Gutka
- Pan masala
- Mate





Contents lists available at ScienceDirect

Oral Oncology

journal homepage: www.elsevier.com/locate/oraloncology



Review

Lifestyle risk factors for oral cancer

Stefano Petti *

Department of Public Health Sciences "G. Sanarelli", "Sapienza" University, P.le Aldo Moro 5, 00185 Rome, Italy



Oral cancer, lifestyle and public health

Most oral cancer cases and deaths are due to both individual predisposition, linked to specific genetic characteristics, and exposure to carcinogens, caused by lifestyle behaviours. Specifically, 20–30% overall cases are attributable to tobacco/bidi smoking, 11,54,111 50% (men) and almost 90% (women) cases to frequent betel quid without tobacco chewing in areas where chewing prevalence is particularly high, 54 7–19% cases to heavy alcohol drinking, 11,79 10–15% cases to micronutrient deficiency, 76,78 and also 3% cases to human papillomavirus infection, generally (but not exclusively) associated to sexual behaviour. In addition, exposure to two or more of these factors has a synergistic effect in increasing oral cancer risk. 18,19,95



Causes of oral cancer – an appraisal of controversies

S. Warnakulasuriya1

BRITISH DENTAL JOURNAL VOLUME 207 NO. 10 NOV 28 2009











Not modifiable:

- Age
- Ethnicity
- · Social-economic status

Modifiable:

- Smoking
- · Alcohol consumption
- Diet
- Lifestyle/Betel Quid

Emerging risk factors:

- Human papillomavirus infection (HPV)
- · Immunosuppression
- · Mate drinking



- · Oral hygeine and dentition
- · Indoor air pollution

Inconsistent, limited or no evidence for causing

- oral cancer:
- Hereditary and family risk
- · Cannabis use
- · Khat chewing
- NRT
- · HIV infection
- Alcohol in mouth washes





Causes of oral cancer – an appraisal of controversies

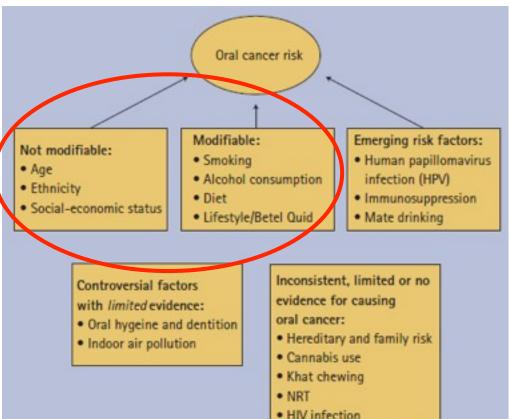
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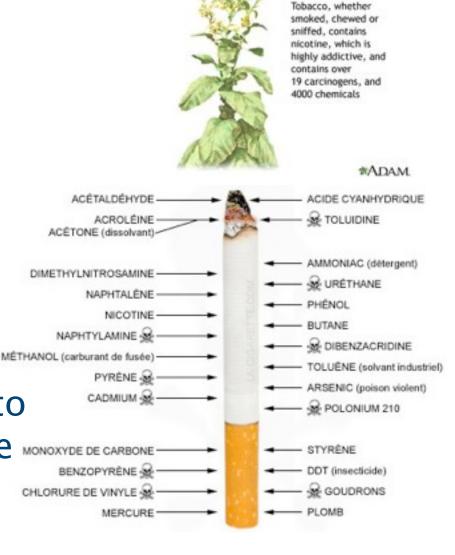
· Alcohol in mouth washes





Fattori di rischio per il cancro orale - Fumo

- Il tabacco risulta carcinogeno in tutte le sue forme.
- Il tabacco genera carcinogeni quali nitrosamine e radicali liberi.
- Nei fumatori le alterazioni genetiche risultano a carico di tutto il tratto aero-digestivo e possono persistere per molti anni anche dopo l'interruzione del fumo.





Original Contribution

Tobacco Smoking, Smoking Cessation, and Cumulative Risk of Upper Aerodigestive Tract Cancers

Cristina Bosetti¹, Silvano Gallus¹, Richard Peto², Eva Negri¹, Renato Talamini³, Alessandra Tavani¹, Silvia Franceschi⁴, and Carlo La Vecchia^{1,5}

1 Istituto di Ricerche Farmacologiche "Mario Negri," Milan, Italy.

International Agency for Research on Cancer, Lyon, France.

⁵ Istituto di Statistica Medica e Biometria "G. A. Maccacaro," Università degli Studi di Milano, Milan, Italy.

| | All upper aerodigestive tract sites | | | | Oral cavity and pharynx | | | |
|---------------------------------|-------------------------------------|-----------------|-------|------------|-------------------------|-----------------|------|------------|
| | No. of cases | No. of controls | OR*,† | 95% CI* | No. of cases | No. of controls | OR† | 95% CI |
| Never smokers | 87 | 943 | 0.12 | 0.09, 0.15 | 24 | 701 | 0.07 | 0.05, 0.11 |
| Current smokers‡ Ex-smokers | 1,514 | 1,476 | 1.00 | | 712 | 1,176 | 1.00 | |
| Time since cessation (years) | | | | | | | | |
| <10 | 338 | 478 | 0.70 | 0.56, 0.88 | 144 | 383 | 0.51 | 0.40, 0.6 |
| 10-19 | 155 | 489 | 0.58 | 0.47, 0.73 | 56 | 330 | 0.20 | 0.14, 0.2 |
| ≥20 | 95 | 391 | 0.27 | 0.22, 0.34 | 23 | 232 | 0.12 | 0.08, 0.2 |
| Age at cessation (years) | | | | | | | | |
| <35 | 40 | 248 | 0.19 | 0.13, 0.27 | 13 | 162 | 0.14 | 0.08, 0.2 |
| 35-44 | 105 | 391 | 0.26 | 0.21, 0.34 | 45 | 279 | 0.20 | 0.14, 0.2 |
| 45-54 | 215 | 426 | 0.44 | 0.36, 0.53 | 90 | 301 | 0.36 | 0.27, 0.4 |
| 55-64 | 228 | 293 | 0.69 | 0.56, 0.86 | 75 | 203 | 0.48 | 0.34, 0.6 |

² Clinical Trial Service Unit and Epidemiological Studies Unit, University of Oxford, Oxford, United Kingdom.

³ Unità di Epidemiologia e Biostatistica, Centro di Riferimento Oncologico di Aviano, Aviano, Italy.



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|---------------------------------|-------------------------------------|-----------------|-------|------------|-------------------------|-----------------|------|------------|
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| Ex-smokers | | | | | | | | |
| Time since cessation (years) | | | | | | | | |
| <10 | 338 | 478 | 0.70 | 0.56, 0.88 | 144 | 383 | 0.51 | 0.40, 0.65 |
| 10-19 | 155 | 489 | 0.58 | 0.47, 0.73 | 56 | 330 | 0.20 | 0.14, 0.28 |
| ≥20 | 95 | 391 | 0.27 | 0.22, 0.34 | 23 | 232 | 0.12 | 0.08, 0.20 |
| Age at cessation (years) | | | | | | | | |
| <35 | 40 | 248 | 0.19 | 0.13, 0.27 | 13 | 162 | 0.14 | 0.08, 0.26 |
| 35-44 | 105 | 391 | 0.26 | 0.21, 0.34 | 45 | 279 | 0.20 | 0.14, 0.29 |
| 45-54 | 215 | 426 | 0.44 | 0.36, 0.53 | 90 | 301 | 0.36 | 0.27, 0.48 |
| 55-64 | 228 | 293 | 0.69 | 0.56, 0.86 | 75 | 203 | 0.48 | 0.34, 0.66 |



Original Contribution

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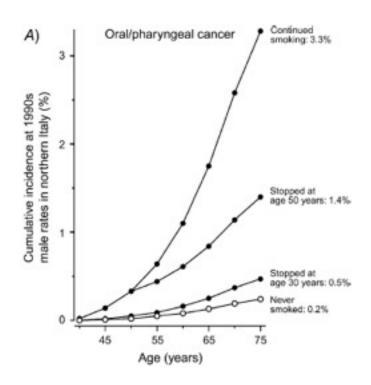
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- Consumo di sigarette:
 per i forti fumatori
 (>15 sigarette/die) il
 rischio di sviluppare
 neoplasia risulta
 maggiore di 9 volte
 rispetto ai non fumatori
- Durata dell'esposizione
- Alcool/tabacco: la cessazione diminuisce il rischio ma occorrono 10 anni per esser considerati come non fumatori/bevitori





Fumo passivo

Donne
NON FUMATRICI
spose
di MARITI FUMATORI:

PERCENTUALE
DOPPIA DI
CANCRO AL POLMONE
rispetto a quelle di
MARITI NON FUMATORI

Hirayama (Japan 1981)



BRIEF COMMUNICATION

Cancer of the Oral Cavity and Pharynx in Nonsmokers Who Drink Alcohol and in Nondrinkers Who Smoke Tobacco

Renato Talamini, Carlo La Vecchia, Fabio Levi, Ettore Conti, Adriano Favero, Silvia Franceschi

In developed countries, cancer of the oral cavity and pharynx is rare in individuals who do not smoke and do not drink alcohol. Few studies, however, have included large enough groups of case and control subjects to provide useful information on the effect of alcohol consumption in the absence of tobacco smoking and the effect of tobacco smoking in the absence of alcohol consumption (1).

Table 2. Odds ratio (OR) of cancer of the oral cavity and pharynx and 95% confidence interval (CI) for alcohol-drinking nonsmokers and tobacco-smoking nondrinkers (1992–1997)

| | No. o | f subjects | | |
|---------------------|-------|------------|-----|------------|
| | Case | Courrel | OR* | 95% CI |
| Alcohol consumption | 0.2 | 00:56 | 18 | |
| Never drinkers | 16 | 139 | 1† | |
| Current drinkers | | | | |
| <21 drinks/wk | 23 | 334 | 0.8 | (0.4-1.6) |
| 21-34 drinks/wk | 4 | 112 | 0.8 | (0.2-2.7) |
| 35-55 drinks/wk | 7 3 | 47 | 5.0 | (1.5-16.1) |
| ≥56 drinks/wk | 3 | 18 | 5.3 | (1.1-24.8 |
| χ_1^2 wend | | | 6.2 | P = .01 |
| Ex-drinkers | 7 | 42 | 2.0 | (0.7-5.4) |
| Smoking status‡ | | | | |
| Never smokers | 16 | 139 | 17 | |
| Current smokers: | | | | |
| <25 cigarettes/d | 6 | 44 | 1.5 | (0.5-4.6) |
| ≥25 cigacettes/d | 6 3 | 44 5 | 7.2 | (1.1-46.6 |
| χ_1^2 wend | | | 3.2 | P = .07 |
| Ex-smokers | 7 | 33 | 2.2 | (0.8-6.2) |

^{*}Estimates from logistic regression equations, including terms for study center, age, sex, and education. TReference category.

Journal of the National Cancer Institute, Vol. 90, No. 24, December 16, 1998





[‡]One control subject who smoked a pipe only and two control subjects who smoked an unknown
number of cigarettes are not included.

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| | No. o | f subjects | | 1 | |
|-----------------------------------|-------|------------|------------|------------|--|
| | Case | Courrel | OR* | 95% CI | |
| Alcohol consumption | 0.9 | 04556 | 1/4 | | |
| Never drinkers | 16 | 139 | 1† | | |
| Current drinkers | | | N. Carlo | | |
| <21 drinks/wk | 23 | 334 | 0.8 | (0.4-1.6) | |
| 21-34 drinks/wk | 4 | 112 | 0.8 | (0.2-2.7) | |
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| x ₁ ² wend | | | 5. | 2: P = .01 | |
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Tumori, 2010 Jan-Feb;96(1):1-10.

Alcohol, tobacco and genetic susceptibility in relation to cancers of the upper aerodigestive tract in northern Italy.

Canova C, Richiardi L, Merletti F, Pentenero M, Gervasio C, Tanturri G, Garzino-Demo P, Pecorari G, Talamini R, Barzan L, Sulfaro S, Franchini G, Muzzolini C, Bordin S, Pugliese GN, Macri E, Simonato L.

Department of Environmental Medicine and Public Health, University of Padua, Italy. cristina.canova@unipd.it

Abstract

AIMS AND BACKGROUND: Each year in Italy there are approximately 14,000 new cases and 7,000 deaths from cancer of the upper aerodigestive tract, which includes malignant tumors originating from the oral cavity, pharynx, larynx and esophagus. Established etiological factors include tobacco consumption and heavy alcohol drinking. The study of single nucleotide polymorphisms in upper aerodigestive tract cancer etiology may help to identify high-risk subgroups and to better understand the pathways leading to the development of these cancers.

METHODS: Italian results on about 500 cases and 500 controls from a large case-control study (ARCAGE) conducted in 10 European countries are presented with the major objectives of updating results on the effects of alcohol and tobacco consumptions in northern Italy, investigating the role of genetic variation with regard to the metabolism of alcohol and carcinogens from tobacco smoke, and evaluating possible interactions of these single nucleotide polymorphisms with these carcinogens.

RESULTS: The present study confirmed the importance of tobacco smoking and alcohol drinking as the main risk factors for upper aerodigestive tract cancers, indicating that about 68% of cancers among populations in northern Italy can be attributed to the combination of these risk factors. Significant associations between metabolizing phase I genes (CYP1A1 and CYP2A6), phase II genes (GSTA2) and upper aerodigestive tract cancers were found. A polymorphism of ADH1C has been associated with an increased risk of upper aerodigestive tract cancers, suggesting that the less rapid alcohol metabolizers are more susceptible to upper aerodigestive tract cancer risk.

CONCLUSIONS: Our results suggest that the ADH1C allele modifies the carcinogenic dose response for alcohol in the upper aerodigestive tract, giving rise to a gene-environment interaction. The role of genes as possible modifiers of life-style risks seems the most reliable.



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| Consumo alcolico a rischio (ultimi 30 giorni) Pool di Asl | | | | |
|--|-----|--|--|--|
| Consumatori a maggior rischio* | 17% | | | |
| - Consumo abituale elevato** | 4% | | | |
| - Consumo fuori pasto | 8% | | | |
| - Consumo binge*** | 9% | | | |

consumo abituale elevato e/o fuori pasto e/o binge.

*** consumo di 5 o più unità alcoliche (uomini) e 4 o più unità alcoliche (donne) in una unica occasione, almeno una volta negli ultimi 30 giorni



Azione diretta

- Etanolo
- Contaminanti:
 nitrosammine,
 micotossine, uretani,
 asbesto,derivati
 arsenicali)

Azione diretta cocarcinogenetica

 vasodilatazione determinante maggior contatto e penetrazione di di sostanze carcinogenetiche

Azione indiretta in epatopatia alcoolica

^{**} più di 2 unità alcoliche in media al giorno per gli uomini e più di 1 per le donne



Wine, beer and spirits and risk of oral and pharyngeal cancer: a case—control study from Italy and Switzerland

Andrea Altieri^{a,*}, Cristina Bosetti^a, Silvano Gallus^a, Silvia Franceschi^b, Luigino Dal Maso^c, Renato Talamini^c, Fabio Levi^d, Eva Negri^a, Teresa Rodriguez^{e,f}, Carlo La Vecchia^{a,g}

Types of alcohol and oral cancer

907

Table 1 Distribution of 749 cases of oral and pharyngeal cancer and 1,772 controls, and corresponding odds ratio^a (OR) and 95% confidence intervals (CI), according to daily consumption of different types of alcoholic beverages (Italy and Switzerland, 1992–1997)

| Type (drinks/day) | Cases ^b | Controls ^b | OR | 95% CI | |
|----------------------|--------------------|-----------------------|-------------------|-----------|--|
| Total alcohol | 2010 | 11201100 | | | |
| Non-drinkers | 32 | 223 | | | |
| 1-2 | 93 | 796 | 1 | | |
| 3-4 | 95 | 365 | 2.1 | 1.5-2.9 | |
| 5-7 | 132 | 208 | 5.0 | 3.5-7.1 | |
| 8-11 | 199 | 118 | 12.2 | 8.4-17.6 | |
| ≥ 12 | 196 | 60 | 21.1 | 14.0-31.8 | |
| χ² trend (p-value) | | | 272.07 (< 0.0001) | | |
| Wine ^c | | | | | |
| Non-wine drinkers | 43 | 265 | | | |
| 1-2 | 110 | 825 | 1 | | |
| 3-4 | 127 | 393 | 2.2 | 1.6-3.0 | |
| 5-7 | 157 | 151 | 7.1 | 5.0-10.1 | |
| 8-11 | 177 | 93 | 11.8 | 8.1-17.2 | |
| ≥ 12 | 134 | 43 | 16.1 | 10.2-25.3 | |
| χ² trend (p-value) | | | 221.83 (< 0.0001) | | |
| Beer ^c | | | | | |
| Non-beer drinkers | 284 | 949 | 1 | | |
| 1-2 | 380 | 781 | 1.2 | 1.0-1.5 | |
| ≥ 3 | 84 | 41 | 2.3 | 1.4-3.7 | |
| χ² trend (p-value) | | | 9.86 (0.02) | | |
| Spirits ^c | | | | | |
| Non-spirit drinkers | 297 | 969 | 1 | | |
| 1-2 | 386 | 775 | 1.0 | 0.8-1.2 | |
| ≥ 3 | 66 | 27 | 1.9 | 1.1-3.3 | |
| χ² trend (p-value) | | | 1.14 (0.29) | | |



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Types of alcohol and oral cancer

907

Table 1 Distribution of 749 cases of oral and pharyngeal cancer and 1,772 controls, and corresponding odds ratio^a (OR) and 95% confidence intervals (CI), according to daily consumption of different types of alcoholic beverages (Italy and Switzerland, 1992—1997)

| Type (drinks/day) | Cases ^b | Controls ^b | OR | 95% CI |
|----------------------|--------------------|-----------------------|----------------|-----------|
| Total alcohol | 2010 | Figure 1 and | | |
| Non-drinkers | 32 | 223 | | |
| 1-2 | 93 | 796 | 1 | |
| 3-4 | 95 | 365 | 2.1 | 1.5-2.9 |
| 5-7 | 132 | 208 | 5.0 | 3.5-7.1 |
| 8-11 | 199 | 118 | 12.2 | 8.4-17.6 |
| ≥ 12 | 196 | 60 | 21.1 | 14.0-31.8 |
| χ² trend (p-value) | | | 272.07 < 0.000 | 01) |
| Wine ^c | | | | |
| Non-wine drinkers | 43 | 265 | 200 | |
| 1-2 | 110 | 825 | 1 | |
| 3-4 | 127 | 393 | 2.2 | 1.6-3.0 |
| 5-7 | 157 | 151 | 7.1 | 5.0-10.1 |
| 8-11 | 177 | 93 | 11.8 | 8.1-17.2 |
| ≥ 12 | 134 | 43 | 16.1 | 10.2-25.3 |
| χ² trend (p-value) | | | 221.83 < 0.000 | 01) |
| Beer ^c | | | 2.6 | |
| Non-beer drinkers | 284 | 949 | 1 | |
| 1-2 | 380 | 781 | 1.2 | 1.0-1.5 |
| ≥ 3 | 84 | 41 | 2.3 | 1.4-3.7 |
| χ² trend (p-value) | | | 9.86 (0.02) | |
| Spirits ^c | | | | |
| Non-spirit drinkers | 297 | 969 | 1 | |
| 1-2 | 386 | 775 | 1.0 | 0.8-1.2 |
| ≥ 3 | 66 | 27 | 1.9 | 1.1-3.3 |
| χ² trend (p-value) | | | 1.14 (0.29) | |



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Oral Oncology

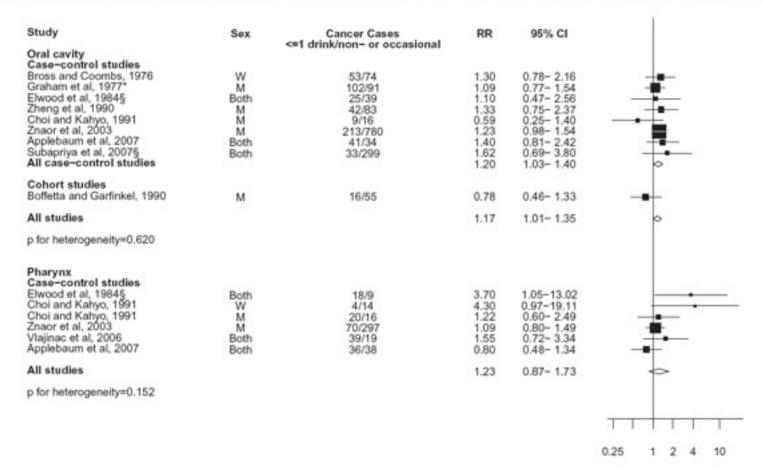




Review

A meta-analysis of alcohol drinking and oral and pharyngeal cancers. Part 2: Results by subsites

Federica Turati ^{a,b}, Werner Garavello ^{a,c}, Irene Tramacere ^a, Vincenzo Bagnardi ^{d,e}, Matteo Rota ^{d,f}, Lorenza Scotti ^d, Farhad Islami ^{g,b}, Giovanni Corrao ^d, Paolo Boffetta ^{i,j}, Carlo La Vecchia ^{a,b,-}, Eva Negri ^a



Relative risk



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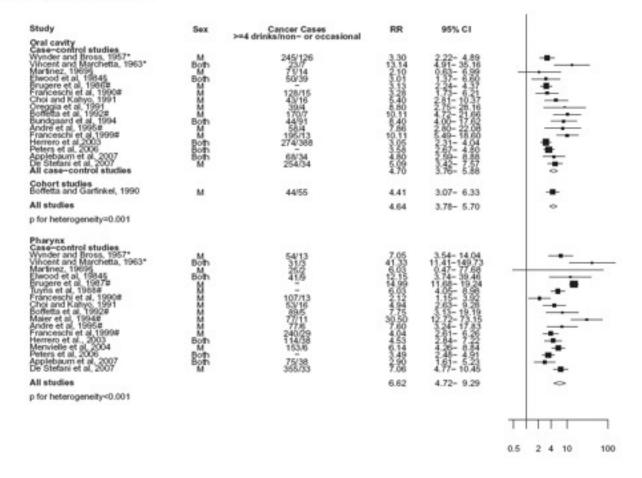
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Relative risk

BMC Public Health



Research article

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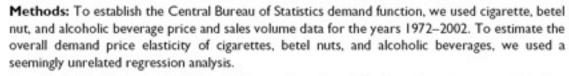
The synergistic effect of cigarette taxes on the consumption of cigarettes, alcohol and betel nuts

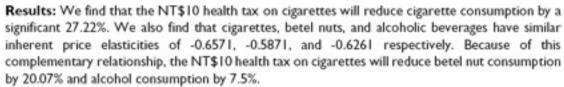
Jie-Min Lee*



Background: Consumption of cigarettes and alcoholic beverages creates serious health consequences for individuals and overwhelming financial burdens for governments around the world. In Asia, a third stimulant – betel nuts – increases this burden exponentially. For example, individuals who simultaneously smoke, chew betel nuts and drink alcohol are approximately 123 times more likely to develop oral, pharyngeal and laryngeal cancer than are those who do not.

To discourage consumption of cigarettes, the government of Taiwan has imposed three taxes over the last two decades. It now wishes to lower consumption of betel nuts. To assist in this effort, our study poses two questions: I) Will the imposition of an NT\$10 Health Tax on cigarettes effectively reduce cigarette consumption? and 2) Will this cigarette tax also reduce consumption of alcoholic beverages and betel nuts? To answer these questions, we analyze the effect of the NT\$10 tax on overall cigarette consumption as well as the cross price elasticities of cigarettes, betel nuts, and alcoholic beverages.





Conclusion: The assessment of a health tax on cigarettes as a smoking control policy tool yields a win-win outcome for both government and consumers because it not only reduces cigarette consumption, but it also reduces betel nut and alcoholic beverage consumption due to a synergistic relationship. Revenues generated by the tax can be used to fund city and county smoking control programs as well as to meet the health insurance system's current financial shortfall.





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Research article

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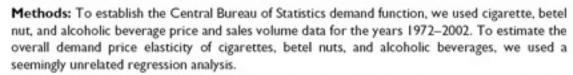
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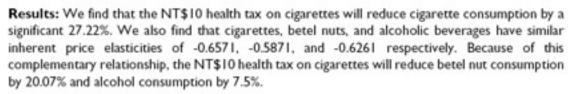
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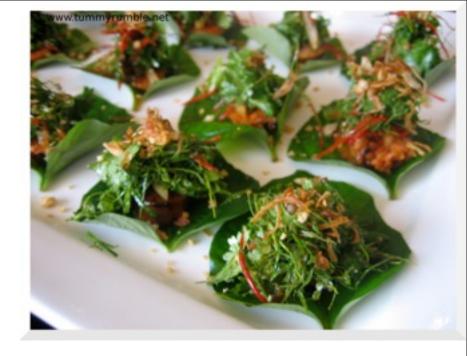


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- Tabacco da masticare: noci di Betel (Areca nut) o Gutka, carcinogene sia con che senza tabacco.
- Tipico di minoranze Sud-est asiatico.





Dieta ed alimentazione

- Correlazione tra bassa introduzione di verdure e frutta fresca ed aumentato rischio di cancro orale.
- Riduzione del rischio del 50% per adeguato consumo di verdure e frutta fresca.
- Alto rischio associato a dieta ricca di carne.



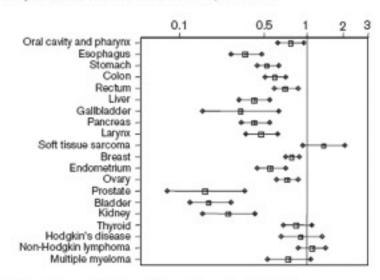


Mediterranean diet and cancer risk

S Gallus 1,2, C Bosetti 1 and C La Vecchia 1,3

Various aspects of the Mediterranean diet are considered favourable with regard to cancer risk. These aspects were analysed using data from a series of case-control studies conducted in northern Italy between 1983 and 2001 on over 12 000 cases of 20 cancer sites and 10 000 controls. For most epithelial cancers, the risk decreased with increasing vegetable and fruit consumption, with odds ratios (OR) between 0.3 and 0.7 for the highest versus the lowest tertile. Subjects reporting frequent red meat intake showed ORs above unity for several common neoplasms. Conversely, fish (and consequently, n-3 fatty acids) tended to be another favourable dietary indicator. Wholegrain food intake was related to reduced risk of several types of cancer, particularly of the upper digestive tract, probably on account of its high fibre content. Fibres were in fact found to be protective with regard to colorectal and other selected cancers. In contrast to wholegrain, refined grain intake, and consequently glycaemic load, was associated with an increased risk of different types of cancer, including those of the upper digestive tract, colorectum, breast and endometrium. These results thus suggest that a low-risk diet for cancer entails increasing vegetables and fruit. reducing meat, but also refined carbohydrate consumption. Furthermore, olive oil and other unsaturated fats, which may be a unique common characteristic of the Mediterranean diet, should be preferred to animal and saturated fats. A score summarizing the major characteristics of the Mediterranean diet was inversely and consistently related to the risk of selected cancer sites. Regular consumption of pizza, one of the most typical Italian foods, showed a reduced risk of digestive tract cancers. Pizza could however simply be an indicator of a typical Italian diet. European Journal of Cancer Prevention 13:447–452 © 2004 Lippincott Williams & Wilkins.

European Journal of Cancer Prevention 2004, 13:447-452



Odds ratios and 95% confidence intervals of selected cancers according to vegetable consumption, Italy, 1983-1997.

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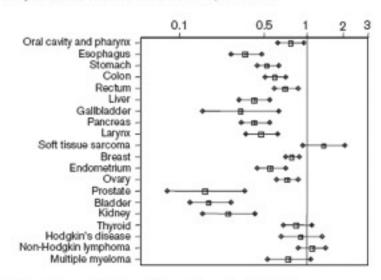
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Odds ratios and 95% confidence intervals of selected cancers according to vegetable consumption, Italy, 1983-1997.

Stato socioeconomico

- Maggiore prevalenza di abitudine al fumo ed all'alcool e dieta povera per basso livello socioeconomico.
- Studi recenti attestano una maggiore incidenza per il cancro orale nei ceti medio-bassi indipendentemente dalle abitudini viziate.



Causes of oral cancer – an appraisal of controversies

S. Warnakulasuriya1

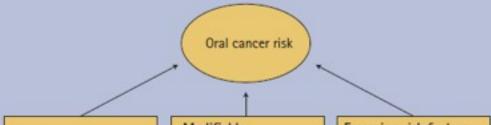
BRITISH DENTAL JOURNAL VOLUME 207 NO. 10 NOV 28 2009











Not modifiable:

- Age
- Ethnicity
- · Social-economic status

Modifiable:

- Smoking
- · Alcohol consumption
- Diet
- Lifestyle/Betel Quid

Emerging risk factors:

- Human papillomavirus infection (HPV)
- · Immunosuppression
- · Mate drinking



- · Oral hygeine and dentition
- · Indoor air pollution

Inconsistent, limited or no evidence for causing oral cancer:

- · Hereditary and family risk
- · Cannabis use
- · Khat chewing
- NRT
- · HIV infection
- · Alcohol in mouth washes





Causes of oral cancer – an appraisal of controversies

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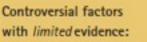
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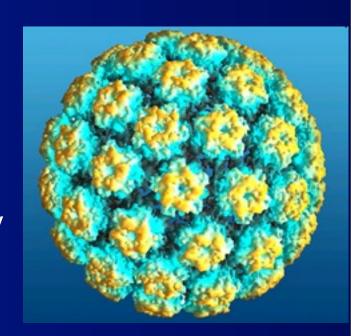
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Human Papilloma Virus (HPV)

- Aumento incidenza carcinoma orofaringeo squamocellulare in maschi con età < 50 anni senza fattori di rischio.
- Stabilita associazione con infezione da HPV 16 (60% in USA)
- Associazione tra HPV 6-16 e carcinoma orale meno chiara.
- Presenza di HPV nelle cellule tumorali o presenza markers di HPV nel siero non dimostra il coinvolgimento di HPV nella patogenesi
- Non ancora stabilito la metodica ottimale per la rilevazione HPV orale nella clinica
- Vaccini (?)



Immunosoppressione

- Riportato aumento del rischio per ca orali (labbro) in trapiantati renali (farmaci immunosoppressori).
- Prolungato utilizzo di immunosoppressori in patologie infiammatorie croniche in report per aumentato rischio di ca orale.



Mate

- Infusione preparata con le foglie di erba Mate, una pianta originaria del Sud America, tradizionalmente bevuta calda.
- Studi epidemiologici realizzati in Sud America.
- L'alta temperatura a cui viene consumato può risultare come cofattore nell'irritazione cronica.



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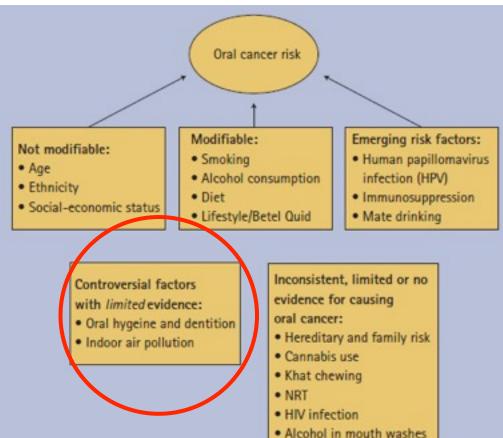
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Igiene orale e status dentale

- Scarsa igiene orale o condizioni dentarie scadenti (restauri traumatizzanti, protesi inadequate)
- Irritazione cronica facilitante l'esposizione a fattori carcinogeni.
- Microbi orali favorenti il metabolismo dell'etanolo in acetaldeide: alterazione flora batterica e micotica, aumento dei markers sistemici di infiammazione circolatoria.





Inquinamento ambienti interni

 Esposizione ai combustibili fossili da stufe a legna utilizzate per riscaldare o cucinare.



Causes of oral cancer an appraisal of controversies

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Causes of oral cancer – an appraisal of controversies

S. Warnakulasuriya¹

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Oral cancer risk

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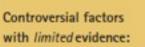
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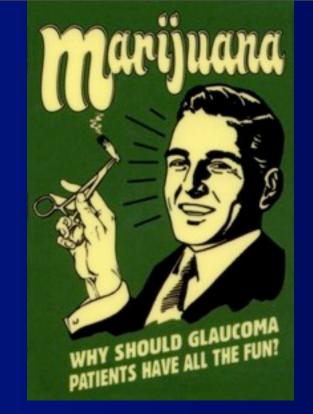
Ereditarietà e familiarità

 Non evidenza che suggerisca che il cancro orale sia più comune in famiglie ad elevato rischio per altri cancri.



Marijuana

- Droga
 maggiormente
 utilizzata in
 moltissime nazioni.
- Non evidenza che definisca la cannabis come agente causale per il cancro orale.
- Possibile ruolo del tabacco utilizzato in associazione.











Collutori alcoolici

- Etanolo presente come solvente in molti collutori in percentuali dal 6 al 29%.
- Riportata un'aumentata evidenza tra relazione diretta tra presenza di alcol nei collutori e sviluppo carcinoma orale.









ORAL ONCOLOGY

journal homepage: www.elsevier.com/locate/oraloncology

REVIEW

Mouthwash and oral cancer risk: An update

Carlo La Vecchia *

Istituto di Ricerche Farmacologiche "Mario Negri" Milano e Istituto di Statistica Medica e Biometria "G.A. Maccacaro", Università degli Studi di Milano, Via Giuseppe La Masa 19, 20156 Milano, Italy

In conclusion, therefore, epidemiological findings on mouthwash and oral cancer were not consistent across various studies, populations and strata of major risk factors considered, including smokers and nonsmokers. ¹⁵ More specifically, the pattern of risk is not different with reference to alcohol-containing mouthwashes, and other types or mixed use of mouthwashes. This, again, weighs against any relevant association between alcohol-containing mouthwashes and oral cancer risk. This absence of association is also consistent with our knowledge of the dose-risk relationship between alcohol consumption and risk of upper digestive tract cancers, which show no excess risk for low doses of ethanol. ¹⁶





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REVIEW

Mouthwash and oral cancer risk: An update

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The Surgeon, Journal of the Royal Colleges of Surgeons of Edinburgh and Ireland

www.thesurgeon.net



A review of the relationship between alcohol and oral cancer

J. Reidy*, E. McHugh, L.F.A. Stassen

Department of Oral and Maxillofacial Surgery, Oral Medicine and Oral Pathology, Dublin Dental University Hospital, Lincoln Place, Trinity College, Dublin 2, Ireland

Conclusion

The relationship between alcohol consumption and oral cancer is clearly complex. Oral cancer is a disease with multiple interacting aetiologies, resulting in difficulties in determining the precise role of each agent independently. Despite this, the evidence supporting the role of alcohol in the aetiology of oral cancer is convincing, with a significant proportion of oral cancer deaths attributable to heavy alcohol consumption. 10 This illustrates the need for increased public awareness campaigns to reinforce the detrimental effects that chronic heavy alcohol consumption can have on both general and oral health. Evidence regarding the carcinogenic effect of alcohol-containing mouthrinses is conflicting, and a link between alcohol-containing mouthrinses and oral cancer has not yet been firmly established. However, considering what is known about the local effects of ethanol on the oral mucosa, it may be judicious to limit their use, particularly in high-risk patients such as smokers.



The Surgeon, Journal of the Royal Colleges of Surgeons of Edinburgh and Ireland

www.thesurgeon.net



A review of the relationship between alcohol and oral cancer

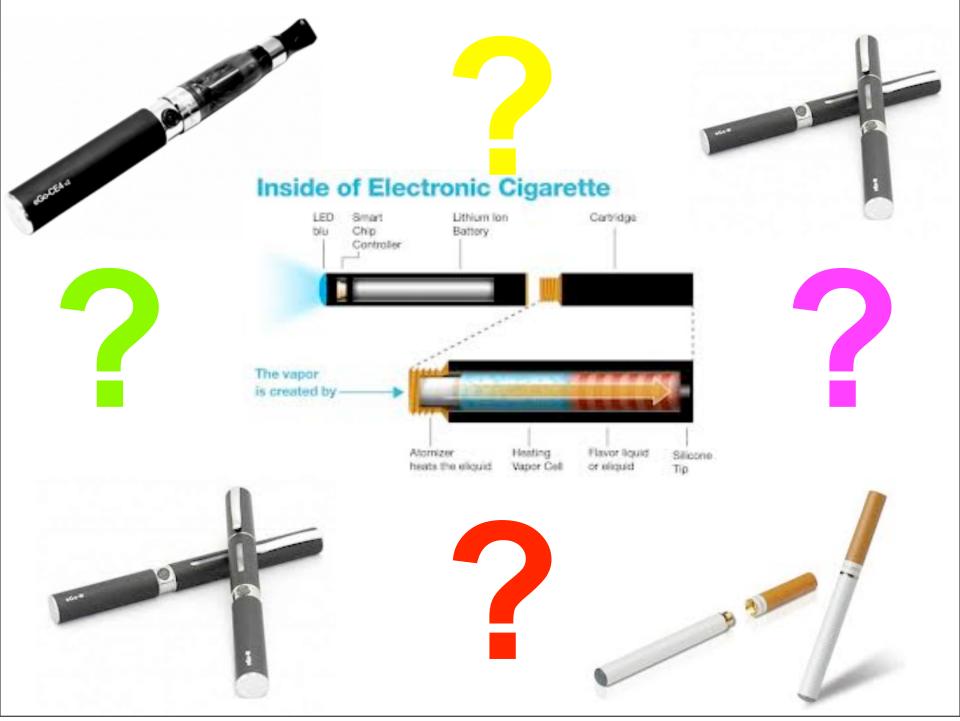
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mercoledì 12 febbraio 14

Le Iene ti dicono cosa c'è nel vapore della sigaretta elettronica

di Redazione - 06/11/2013 - La bionda tecnologica su Italiauno



± 694

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Spedizione corrispondenza semplice veloce attraverso i tabacca

La sigaretta elettronica fa bene o male alla salute? A fornire una risposta al frequente interrogativo ci hanno provato Le lene con un servizio firmato da Matteo Viviani mandato in onda nella puntata di ieri.

LA DEFINIZIONE - «Tecnicamente - ha spiegato la trasmissione di Italiauno parlando della bionda tecnologica - è un vaporizzatore personale. Grossomodo funziona così: premendo un pulsante, la batteria comincia a fornire energia ad un atomizzatore, il quale, scaldando il liquido contenuto in un piccolo serbatoio, lo vaporizza».

IL BOOM – «Appena arrivato sul mercato, quattro anni fa, questo aggeggino ha avuto un successo enorme. Nel 2012 già un milione di italiani svaporava la sigaretta elettronica. Migliaia di negozi sono stati aperti in tutta Italia generando un fatturato, solo nel 2012, di 350 milioni di euro. Un boom impressionante che secondo molti sondaggi ha portato moltissime persone a smettere di fumare e molte altre a dminuire drasticamente il consumo delle bionde, guadagnandone in salute».

LA COMUNITÀ SCIENTIFICA DIVISA – «La comunità scientifica si è divisa in due gruppi, nettamente distinti, tra chi, come Veronesi sostiene che 'la sigaretta elettronica è assolutamente innocua, soprattutto senza nicotina' e chi, come il dottor Garattini dell'Istituto Mario Negri di Milano, dice fermamente no». E il web non ha certamente ajutato i consumatori a farsi un'idea chiara. In Rete sono infatti spuntate associazioni di commercianti, lobby di settore e pagine favorevoli e contrarie alla sigaretta tecnologica. A pagare le spere del caos sono soprattutto i negozianti che hanno investito i loro risparmi per aprire i nuovi negozi, molti dei quali, intervistati dalle lene, si dicono prossimi alla chiusura.



Elisabetta Merigo



Maddalena Manfredi



Paolo Vescovi



Marco Meleti



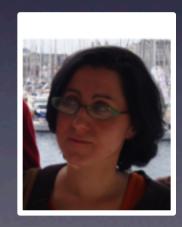
AMBULATORIO DI PATOLOGIA E CHIRURGIA

ORALE LASER-ASSISTITA

Polo di Odontostomatologia Azienda Ospedaliero-Universitaria di Parma



Carlo Fornaini



Tamara Simonazzi



Giovanni Mergoni



Amin Sarraj



Luigi Corcione

