

International Agency for Research on Cancer | IARC Monographs on the Evaluation of Cardinogenic Risks to Humans

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AGENTS CLASSIFIED BY THE IARC MONOGRAPHS, VOLUMES 1-113

Group 1	Carcinogenic to humans	117 agents
Group 2A	Probably carcinogenic to humans	74
Group 2B	Possibly carcinogenic to humans	287
Group 3	Not classifiable as to its carcinogenicity to humans	503
Group 4	Probably not carcinogenic to humans	1

For definitions of these groups, please see the Preamble.

It is strongly recommended to consult the complete Monographs on these agents, the publication date, and the list of studies considered. Significant new information might support a different classification.

For agents that have not been classified, no determination of non-carcinogenicity or overall safety should be inferred.

- List of classifications, Volumes 1-113 (embedded spreadsheet)
- List of classifications by cancer site (PDF file)

See Preventable Exposures Associated With Human Cancers

(Cogliano et al., 2011)

Although care was taken in preparing these lists, mistakes may be present.

If you find an error, please notify us at imo@iarc.fr.

Last update: 26 June 2015

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List of Classifications by cancer sites with <i>sufficient</i> or <i>limited evidence</i> in humans, Volumes 1 to 113*				
Cancer site	Carcinogenic agents with <i>sufficient</i> evidence in humans	Agents with <i>limited evidence</i> in humans		
Lip, oral Cavity, an	d pharynx			
Lip		Hydrochlorothiazide Solar radiation		
Oral cavity	Alcoholic beverages Betel quid with tobacco Betel quid without tobacco Human papillomavirus type 16 Tobacco, smokeless Tobacco smoking	Human papillomavirus type 18		
Salivary gland	X-radiation, gamma-radiation	Radioiodines, including lodine-		
Tonsil	Human papillomavirus type 16			
Pharynx	Alcoholic beverages Betel quid with tobacco Human papillomavirus type 16 Tobacco smoking	Asbestos (all forms) Mate drinking, hot Printing processes Tobacco smoke, secondhand		
Nasopharynx	Epstein-Barr virus Formaldehyde Salted fish, Chinese-style Tobacco smoking Wood dust			
Digestive tract, upper	Acetaldehyde associated with consumption of alcoholic beverages			
Digestive organs	•			
Oesophagus	Acetaldehyde associated with consumption of alcoholic beverages Alcoholic beverages Betel quid with tobacco Betel quid without tobacco Tobacco, smokeless Tobacco smoking X-radiation, gamma-radiation	Dry cleaning Mate drinking, hot Pickled vegetables (traditional Asian) Rubber production industry		

List of Classifications by cancer sites with <i>sufficient</i> or <i>limited evidence</i> in humans, Volumes 1 to 113*				
Cancer site	Carcinogenic agents with <i>sufficient</i> evidence in humans	Agents with <i>limited evidence</i> in humans		
Leukaemia and/or lymphoma	Azathioprine Benzene Busulfan 1,3-Butadiene Chlorambucil Cyclophosphamide Cyclosporine Epstein-Barr virus Etoposide with cisplatin and bleomycin Fission products, including Strontium-90 Formaldehyde Helicobacter pylori Hepatitis C virus Human immunodeficiency virus type 1 Kaposi sarcoma herpes virus Lindane Melphalan MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture) Phosphorus-32 Rubber production industry Semustine (methyl-CCNU) Thiotepa Thorium-232 and its decay products Tobacco smoking Treosulfan X-radiation, gamma-radiation	Bischloroethyl nitrosourea (BCNU) Chloramphenicol DDT Diazinon Dichloromethane (Methylene chloride) Ethylene oxide Etoposide Glyphosate Hepatitis B virus Magnetic fields, extremely low frequency (childhood leukaemia) Malathion Mitoxantrone Nitrogen mustard Painting (childhood leukaemia from maternal exposures) Petroleum refining, occupational exposures Polychlorinated biphenyls Polychlorophenols or their sodium salts (combined exposures) Radioiodines, including lodine-131 Radon-222 and its decay products Styrene Teniposide Trichloroethylene 2,3,7,8-Tetrachlorodibenzo-para-dioxin Tobacco smoking (childhood leukaemia in smokers' children) Malaria (caused by infection with Plasmodium falciparum in holoendemic areas)		