



Cancer Incidence in Five Continents Vol. XII



Edited by F. Bray, M. Colombet, J.F. Aitken, A. Bardot, S. Eser, J. Galceran, M. Hagenimana, T. Matsuda, L. Mery, M. Piñeros, I. Soerjomataram, E. de Vries, C. Wiggins, Y.J. Won, A. Znaor and J. Ferlay

IARC Scientific Publications No. 169

Cancer Incidence in Five Continents

Volume XII

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

The International Agency for Research on Cancer (IARC) was established in 1965 by the World Health Assembly, as an independently financed organization within the framework of the World Health Organization (WHO). The headquarters of the Agency are in Lyon, France.

The Agency conducts a programme of research concentrating particularly on the epidemiology of cancer and the study of potential carcinogens in the human environment. Its epidemiological studies are supplemented by studies of the mechanisms of carcinogenesis carried out in the Agency's laboratories in Lyon. The promotion of collaborative research among scientists worldwide is a strong feature of the Agency's activities. The Agency also conducts a programme for the education and training of personnel for cancer research.

The publications of the Agency are intended to contribute to the dissemination of authoritative information on various aspects of cancer research. Information about IARC publications and how to order them is available online at https://publications.iarc.who.int/.

INTERNATIONAL ASSOCIATION OF CANCER REGISTRIES

The International Association of Cancer Registries (IACR) was created following the Ninth International Cancer Congress, held in Tokyo, in 1966. The Association is a voluntary nongovernmental organization in official relations with WHO, representing the scientific and professional interests of cancer registries, with members interested in the development of cancer registration and its application to studies of well-defined populations.

There are currently more than 700 member registries in IACR, along with an elected executive board. Since 1973, IARC has provided a secretariat for the Association, with the primary functions of organizing meetings and coordinating scientific studies. Information about the Association, including membership, activities, and publications, is available online at http://www.iacr.com.fr/.





Cancer Incidence in Five Continents

Volume XII

Edited by

F. Bray, M. Colombet, J.F. Aitken, A. Bardot, S. Eser, J. Galceran, M. Hagenimana, T. Matsuda, L. Mery, M. Piñeros, I. Soerjomataram, E. de Vries, C. Wiggins, Y.J. Won, A. Znaor and J. Ferlay

IARC Scientific Publications No. 169

International Agency for Research on Cancer Lyon, France 2024

© International Agency for Research on Cancer 2024

Data published online October 2023 (https://ci5.iarc.who.int/ci5-xii/)

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-NoDerivs 3.0 IGO licence (CC BY-NC-ND 3.0 IGO; https://creativecommons.org/licenses/by-nc-nd/3.0/igo/).

Under the terms of this licence, you may copy and redistribute the work for non-commercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products, or services. The use of the WHO logo is not permitted.

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization.

Suggested citation.

Bray F, Colombet M, Aitken JF, Bardot A, Eser S, Galceran J, et al., editors (2024). Cancer Incidence in Five Continents, Vol. XII. IARC Scientific Publication No. 169. Lyon, France: International Agency for Research on Cancer. Available from: https://publications.iarc.who.int/641. Licence: CC BY-NC-ND 3.0 IGO.

Sales, rights and permissions.

To purchase print copies distributed by WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, see https://www.who.int/publications/book-orders. Tel.: +41 22 791 3264; Fax: +41 22 791 4857; email: bookorders@who.int.

To obtain IARC publications in electronic format, see the IARC Publications website (https://publications.iarc.who.int).

To submit requests for adaptations or commercial use and queries on rights and licensing, see the IARC Publications website (https://publications.iarc.who.int/Rights-And-Permissions).

Third-party materials.

If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

General disclaimers.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO or contributing agencies concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by WHO or contributing agencies in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO or contributing agencies be liable for damages arising from its use.

IARC Library Cataloguing-in-Publication Data

Names: Bray, Freddie, editor. | Colombet, Murielle, editor. | Aitken, Joanne F., editor. | Bardot, Aude, editor. | Eser, Sultan, editor. | Galceran, Jaume, editor. | Hagenimana, Marc, editor. | Matsuda, Tomohiro, editor. | Mery, Les, editor. | Piñeros, Marion, editor. | Soerjomataram, Isabelle, editor. | de Vries, Esther, editor. | Wiggins, Charles, editor. | Won, Young-Joo, editor. | Znaor, Ariana, editor. | Ferlay, Jacques, editor.

Title: Cancer incidence in five continents, volume XII / edited by Freddie Bray, Murielle Colombet, Joanne F. Aitken, Aude Bardot, Sultan Eser, Jaume Galceran, Marc Hagenimana, Tomohiro Matsuda, Les Mery, Marion Piñeros, Isabelle Soerjomataram, Esther de Vries, Charles Wiggins, Young-Joo Won, Ariana Znaor and Jacques Ferlay. Description: Lyon: International Agency for Research on Cancer, 2024. | Series: IARC scientific publications, ISSN 0300-5085; v. 169. | Includes bibliographical references.

Identifiers: ISBN 9789283222255 (pbk.) | ISBN 9789283222248 (ebook)

Subjects: MESH: Neoplasms-epidemiology. | Incidence. | Registries. | Statistics.

Classification: NLM QZ220.1