



Global Initiative for Cancer Registry Development



GICR e-learning Series Course Syllabus

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Series Description

Millions of people suffer from cancers that are preventable. The availability and use of local data are essential to determine what actions are needed and which groups should be targeted.

The mission of the [Global Initiative for Cancer Registry Development \(GICR\)](#) is converting reliable data into information that provides a way to save lives. Cancer registries are critical to collecting, analyzing, and converting data into valuable information that supports cancer monitoring, prevention, and control.



The [GICR e-learning Series](#) provides comprehensive training in the principles and practices of cancer registration, primarily for those working in registries in low- and middle-income settings. The goal of this training is to build and maintain capacity in cancer registry operations.

The series comprises 16 modules that aim to provide you with a knowledge base about cancer registry data in addition to guided skill instruction on specific implementation steps for registry operation, management, data analysis, and information dissemination, including the use of CanReg5 as a cancer registry database management software.

The full series is designed to function as a training tool that can be used as an ongoing resource and reference for personnel who have responsibility for registry planning and implementation.

This series consists of a pre-course preparation module that provides foundational knowledge in how cancer is defined and the function of cancer control and registration. A remaining 15 modules cover all aspects of data collection, coding, data management, and analyses.



The series content has been recently transitioned from a synchronous classroom delivery format into a self-paced asynchronous training program that will be updated as needed. The GICR will provide notices of revisions and updates to all areas of course content.

Participation Requirements and Benefits

Prior experience in cancer registry operations is not required to take this e-learning series. It is offered exclusively online and requires that you have access to a computer with internet connection to obtain and complete the training modules, exercises, and quizzes, and to download supportive learning materials.

Acknowledgement of successful completion will be provided under the auspices of the GICR, the [International Agency for Research on Cancer \(IARC\)](#), the specialized cancer agency of the [World Health Organization](#), and the [International Association of Cancer Registries \(IACR\)](#).

There are two options for recognition of completion:

1

A **Certificate of GICR e-learning Module Completion** issued for each module successfully completed in the series.

2

The **Global Certified Cancer Registrar (GCCR) Credential** issued for the completion of the full 16 modules and the successful passing of the final quiz for each individual module within a 12-month period.



A description of the purpose and learning content for the designated cancer registry role learning streams is provided in the **GICR e-learning Series Learner's Guide**.

Audience

Although prior experience is not required in cancer registry to take any portion of the e-learning series, it is primarily designed for those who are currently seeking to do so. It is also open to those who are interested in learning more about cancer registration.



Participants are expected to be from various countries that currently operate or are considering creating cancer registries.

Series Structure and Time Requirements

The e-learning series includes the following:

- 1** A set of questions to be answered at the start of each module to help learners determine their current level of knowledge in the module subject, and assess learning gained as a result of completing the module.
- 2** An Introduction Video that welcomes learners and provides a description of the course, its purpose, and how it is designed.
- 3** Module 0, which is a required pre-course preparation module.
- 4** A detailed Glossary of Key Terms and a Learner Guide.
- 5** Modules 1 to 15, which can be completed in order, or as needed to address a specific learning need.
- 6** A Final Challenge quiz at the end of each module.
- 7** An Evaluation Feedback form to be completed at the end of each module.



All course modules are self-paced, with no time restrictions for completion. The estimated range of time to complete a module is one to three hours, depending on the length of the module and the number of exercises and quizzes it contains.

Participants are encouraged to dedicate specific times to the learning process, although they may stop and return to the module at any time. Dedicated time allows for full comprehension of content; a review of examples; and completion of practice exercises, knowledge challenges, and quizzes.



Modules specific to the CanReg5 database software provide an opportunity to watch a demonstration of an activity, try the activity with instruction, and then do it on one's own.



More information on how to determine the time needed to complete the modules is provided in the Learner Guide.

Technical Requirements

See the course website for a detailed description of technical requirements, such as those related to:



Computers



Internet




Operating Systems



Browsers

Available Learner Help and Support

The [GICR e-learning Series](#) is one component of a larger programme of support operated through the [GICR](#). Together with multiple partners, the [GICR](#) offers the first worldwide strategy to inform cancer control through better data. The overall aim is to strengthen the availability, quality, and use of cancer data globally.



The screenshot shows the GICR website homepage. At the top, it features the logos for the International Agency for Research on Cancer (IARC) and the World Health Organization (WHO), alongside the GICR logo and the text 'GLOBAL INITIATIVE FOR CANCER REGISTRY DEVELOPMENT'. A navigation menu includes links for 'About the GICR', 'IARC Regional Hubs', 'ChildGICR', 'Building Capacity', 'GICR Partner Countries', 'Results & Evidence', 'Funding & Finance', 'Library & Resources', and 'Contact'.

The main content area is divided into three columns, each with a 'Read more' button:

- The value of cancer data:** Cancer data are the cornerstone of cancer control.
- Measuring our progress:** 167 Site visits, 17 agreements, 89 courses.
- The value of cancer data:** Cancer data are the cornerstone of cancer control.

Below this is a section titled 'IARC REGIONAL HUBS FOR CANCER REGISTRATION' featuring a globe with South America highlighted in red. To the right, a blue box contains the GICR logo and its name in multiple languages: 'GLOBAL INITIATIVE FOR CANCER REGISTRY DEVELOPMENT', 'INITIATIVE MONDIALE POUR LE DEVELOPPEMENT DES REGISTRES DU CANCER', and 'INICIATIVA MUNDIAL PARA EL DESARROLLO DE REGISTROS DE CÁNCER'. A list of regional hubs is provided:

- Caribbean
- Latin America
- Northern Africa, Central and Western Asia
- Pacific Islands
- South, East and South-Eastern Asia
- Sub-Saharan Africa

Below the hubs is a section titled 'About our partners'.

The bottom of the page features three columns of content:

- Tweets:** A placeholder for tweets from @GICR_IARC, showing 'Nothing to see here - vet'.
- Latest news:** Two news items: 'Job Vacancy, Senior Tech Advisor on Cancer Registries, Africa' (dated 07/09/2023) and 'In Memoriam, Marcell de Oliveira Santos' (dated 07/08/2023).
- Case studies:** Two case studies: 'Partner Country Paraguay' (describing a commitment to better cancer data for cancer control planning) and 'Partner Country El Salvador'.

Help and support is available to learners who may need additional guidance on applying the training content to cancer registry operations. There are six [IARC Regional Hubs](#) and associated regional IARC—[GICR Collaborating Centres](#). They help cancer registries around the world through regional in-person training courses, direct assistance, research, and the development of networks.

One such important group of networks is termed the [GICRNet](#). Built around a specific topic relating to cancer registry, each [GICRNet](#) consists of a set of 20 to 25 designated [GICRNet trainers](#) selected from around the world. Together, each network has co-produced standardized training material that it helps deliver in each IARC Hub region: Africa, Asia, the Caribbean, Latin America, and the Pacific Islands. [GICRNet](#) trainers are available to assist with queries from the [GICR e-learning Series](#) for peers in their respective regions.












The screenshot shows a webpage from the International Agency for Research on Cancer (IARC) under the Global Initiative for Cancer Registry Development. The page title is "Training via the GICRNet". The main content area features a blue-tinted photograph of a training session in a classroom setting. Below the photo, the text reads: "The GICRNet uses a Train the Trainer model to form a network of experts." To the right, there is a "Latest news" section with a date of "07/09/2023" and a link for a "Job Vacancy, Senior Tech Advisor on Cancer Registries, Africa". The top navigation bar includes links for "About the GICR", "IARC Regional Hubs", "ChildGICR", "Building Capacity", "GICR Partner Countries", "Results & Evidence", "Funding & Finance", "Library & Resources", and "Contact".

Coming Soon

Plans are underway to make available a structured learning calendar that will provide fixed dates for the start and completion of modules, together with a sequence of virtual open-door sessions where [GICRNet trainers](#) will host regional online meetings to discuss specific issues that users may have about a given module. These plans will be part of a *Learning Community of Practice in Cancer Registration* that will be developed by the [GICR](#). This will comprise a library of tools, educational resources, *Best Practices*, and a discussion platform for users. Forthcoming details and announcements will be posted on the [GICR website](#).

Series Completion Requirements and Success Expectations

Participants are expected to:

-  View the Introduction Video.
-  Complete Module 0 before starting the course for the first time. This is required and must only be taken once.
-  Download or print the course Glossary of Key Terms and the Learners Guide to use as a resource.
-  Answer the What Do You Know questions at the beginning of each module.
-  Review the Index provided in each module selected to become familiar with the contents and any additional resources.
-  View and complete all content in the module without skipping anything, including click-throughs to additional explanations and examples.
-  Complete any additional required reading of additional resources linked within the module.
-  Complete all knowledge challenges, exercises, and quizzes.
-  Finish and pass the Final Challenge quiz at the end of each module.

Completion of an Evaluation Feedback Form is also required for the receipt of a Certificate of Completion.

Final Quiz Scores Required



Status	Percentage	Performance
Complete	80–100%	Has met module/course expectations
Incomplete	0–79%	Has not met module/course expectations

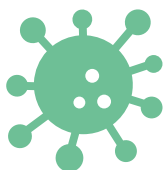
Content of the Modules

Module 0: Pre-Course Preparation Module (Required)



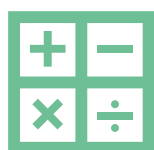
- The difference between benign and malignant tumours
- The pathology of tumours for cancer registry personnel
- The cancer burden and how it is measured in terms of incidence, mortality, and prevalence
- The data sources, data collection methods, and operation requirements of population-based cancer registries (PBCRs)

Module 1: Introduction to Cancer Surveillance



- The functions, key parts, and main attributes of public health surveillance
- The strategies of cancer surveillance
- The central role of the PBCR in cancer surveillance
- The procedures involved in cancer registration
- The tasks performed by the IARC in global cancer surveillance

Module 2: Measuring Cancer Incidence, Mortality, and Prevalence



- The definition of cancer incidence, mortality, and prevalence
- The definition of rate and risk
- The process of making estimates of the population at risk
- Four types of incidence rates

Module 3: Cancer Registries



- The types of cancer registries and how they differ
- Why PBCRs are needed
- An overview of the history of cancer registration
- The key roles and functions of a PBCR
- The steps needed to plan and operate a PBCR

Module 4: Variables for Cancer Registries



- The variables that will be collected by the registry on every case of cancer
- The proper application of coding of variables collected
- The location to find the standardized codes for the variables

Module 5: Classification and Coding



- The international codes for cancer registries
- Classification and coding of cancer—the International Classification of Diseases
- The International Classification of Diseases for Oncology (ICD-O)

Module 6: Case Finding and Sources



- The different types of sources of information used by population-based registries
- The cancers that should be recorded (abstracted) by a cancer registry
- The location of the information required to register a cancer case from a medical record

Module 7: Staging of Cancer



- What *stage of cancer* means
- What methods are used for describing *stage of cancer*
- What Essential TNM is and how it relates to TNM and stage GROUP
- How oesophagus, breast, cervix cancers, etc. are staged using Essential TNM

Module 8: CanReg: Installation and Management



- How to install and/or upgrade the older version of CanReg5
- How to browse and enter data into CanReg5
- How to update and export the CanReg5 dictionary and manage the users

Module 9: CanReg: Data Entry



- The structure of the CanReg5 database and data entry of a new cancer patient
- The concepts of record linkage and duplicate person search
- The concept of multiple primary cancers and the principles of defining a new primary cancer
- The steps to create a population dataset in CanReg5

Module 10: Treatment and Follow-Up



- What treatment should be recorded by the cancer registrar
- The difference between curative and palliative therapy
- The difference between adjuvant and neoadjuvant therapy
- The cancer registry guidelines to identify and record patient follow-up information
- The principles of survival analysis

Module 11: Principles of Data Quality



- The meaning and purpose of data quality control
- The types of quality control, their purposes and implementation
- The quality indicators applicable to cancer data
- The determinants of data quality
- The impact of data quality on results

Module 12: Analysis and Presentation of Data



- Data analysis with CanReg
- Methods of presenting data in tables and charts
- The cancer registry report
- Presenting results in print, at meetings, and on social media

Module 13: Confidentiality



- The ethical principles and their basis related to the collection, storage, and use of cancer registry data
- The international guidelines on human rights that provide the context for data stewardship
- The definitions, legal requirements, and impact of data protection law on the work of PBCRs
- The key functions of a PBCR regarding data confidentiality and protection, with practical examples
- The importance of sharing

Module 14: Uses of Registry Data for Cancer Control



- The scope in which PBCR data can be used for cancer control
- The role of PBCR in assessing and describing the cancer burden
- The uses of PBCR in guiding and monitoring primary prevention and early detection
- The role of PBCR in planning services in cancer care
- The need to disseminate PBCR data using specific tools to help ensure that the knowledge is converted into actions.

Module 15: Paediatric Cancer Registration



- Types of childhood cancer
- Classification and coding of childhood cancers
- Special considerations for childhood cancer registries
- Staging of cancer in children