**Standard-Reporting-for-population-based cancer registry-Tool**

Instruction: Please fill out the form for your manuscript. The form covers all components of a manuscript reporting on population-based cancer registry. Please indicate if each Item applies to your research (Yes and No) column. If **Yes** provide the Page **(Pg)** number and paragraph number **(Ph)** where the item is located. Make sure you fill out the form based on **your final revised draft of the manuscript**. If **No** or the item does not apply to your research provide an explanation in the column with heading “**If No, leave a comment. Why not**”.

You can read more details of the tool at doi: 10.31557/APJCP.2023.24.9.3297

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Manuscript Section** | **Item No** | **Item Description** | **Is the item addressed in the manuscript** | **If Yes, the page Number (Pg)** **The paragraph number (Ph)** | **If No, leave a comment. Why not** | **Other comments** |
| **Title and abstract**  |  |  |  |  |  |  |
| Title | A1 | Indicate the name of cancer registry and the time pertaining to report and country. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| A Structured Abstract | Objective | A2-1 | Present an objective that includes registries name, reporting duration, and the population’s name (could be country/ region/ethic etc.) |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Methods | A2-2 | Briefly on population based or else/ the way cases are registered, major source of data collection/ describe the defined population and its attribute specially ethnicity),  |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Result | A2-3 | Report all site cancer crude rates, ASR. Report crude and ASR for major cause specific cancers in the registry, report at least one indices of quality |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Conclusion | A2-4 | Give a qualitative assessment of the registries report |  |  |  |  |
| **Introduction** |  |  |  |  |  |  |
| Background/rationale | I1 | State references for the population denominator the cancer registry/ a history of cancer registration in the population. The gap that report fills |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| I2 | Report, prevalence, and incidence rates of cancers based on available report for the population or comparable populations  |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Objectives | I3 | State specific objectives that Caner Registry was organized based |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| **Methods** |  |  |  |  |  |  |
| Study design  | M1 | Present key elements of registry design in the paper. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |
|  |  |

 |  |  |
| M2 | Indicate the name of cancer registry and “target” population in which cancer cases are occurring that the registry will enumerate. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Study population and registration area | M3 | Present population characteristics of registration area. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M4 | Present geographic and environmental characteristics of registration area. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Data collection and definitions | M5 | Describe detailed description on the cancer registry.  |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M6 | Describe the reporting procedures. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M7 | Describe variables related to the person (sex, age, usual place of residence, ethnic group). |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M8 | Describe variables related to the tumor (incidence date, valid basis of diagnosis, topography, morphology, behavior). |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M9 | Describe standard classification and coding of cancer in the registry (ICD’s) including version. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M10 | Indicate sources of information (hospitals or/and laboratories or/and death certificates). |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Quality control  | M11 | Explain methods of data validity.  |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M12 | Provide indices of data quality. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M13 | Explain internal consistency. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Statistical analysis | M14 | Name the statistical software used. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M15 | Describe the statistical terms and methods. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M16 | Describe the number of cases, age-specific rates, crude rates, and age-standardized incidence rates (ASRs). |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| M17 | Describe methods for calculation of standardized rates. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Ethics code | M18 | Report protocol approval by the ethics committee. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| **Results** |  |  |  |  |  |  |
| Frequencies | R1 | A table showing demographic data. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R2 | Report frequency distribution by site, age, and sex. (Preferred grouping of cancer can be based on the Caner in Five Continent Cancer grouping or group cancers based on ICD-OC grouping) . |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R3 | Appropriate use of bar graphs, pie charts, and line graphs. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Rates  | R4 | State denominator for rates. Give an indications of population structure |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R5 | Report annual incidence rates by site, age, and sex. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R6 | Report age-standardized rates by site, age, and sex. (preferred use of WHO’s standard population structure) |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R7 | Report cumulative incidence rates by site, age, and sex. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R8 | Show graphical representation of age-specific incidence rates by sex, for commonly diagnosed cancers. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| 89 | Appropriate use of bar graphs, pie charts, and line graphs. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Geographical distribution | R10 | Report frequency and rates by geographic subdivisions of registration area. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Indices of data quality | R11 | A table for indices of the validity of diagnoses. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R12 | Report the percentage of cases with a morphologically verified diagnosis (MV%) and possibly death certificate only (DCO %), when available. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| R13 | Report other available indices of data quality e.g. mortality/incidence ratio, when available |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| **Discussion** |  |  |  |  |  |  |
| Key results | D1 | Summarize key results with reference to study objectives. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Interpretation | D2 | Compares present levels of incidence versus available sources of cancer incidence and mortality data in similar areas and populations. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Limitations | D3 | Discuss the generalizability (external validity) of the study results. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
|  | D4 | Report the shortcoming of the registry with its possible implication of your reported incidences and figures.  |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| **Acknowledgment section** |  |  |  |  |  |  |
| How the registry is managed  | Ak1 | State how the registry is managed. Is the registry part of a standalone project (give identifiable information), or part of an ongoing registry. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| How and if the report was financed | Ak2 | Describe how the report was financed if it was financed. |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |
| Is the registry registered in any central registry system? | Ak3 | Report if the registry is part of a central registry/ associate with local or international associations |

|  |  |
| --- | --- |
| Yes |  |
| No |  |

 |

|  |  |
| --- | --- |
| Pg |  |
| Ph |  |

 |  |  |

The tools supporting documents can be find at:

Roshandel, G., Badar, F., Barchuk, A., Roder, D., Sangrajrang, S., Mery, L., Nobuyuki, H., Halimi, A., Mathur, P., Shrestha, G., & Mosavi Jarrahi, A. (2023). REPCAN: Guideline for REporting Population-based CANcer Registry Data. Asian Pacific Journal of Cancer Prevention, 24(9), 3297-3303. doi: 10.31557/APJCP.2023.24.9.3297