**ESMO-GROW flowchart for real-world evidence studies in oncology**

Dataset 2+
(if applicable)

**Dataset 1**

**Dataset name and setting**

Individual (*n*) or aggregated data

Data sources linkage or merging

[identify here the encounter variable(s)]

**If multiple dataset linkage or merging**

* Missing encounter variable(s) (*n*)
* Duplicates (*n*)
* Misclassification (*n*)

**Exclusion criteria**

*Dataset 1*

* Reason a (*n*)
* Reason b (*n*) (…)

*Dataset 2+ (if applicable)*

* Reason a (*n*)
* Reason b (*n*) (…)

**Exclusion on data cleaning**

* Misclassification (*n*)
* Missing core variables (*n*)
* Loss to follow-up (*n*)
* Missing survival data (*n*)
* Others (*n*)

Data Source

Eligibility

Analysis

**Dataset name and setting**

Individual (*n*)

**Cases included (n)**

Subgroup A (*n*)

Subgroup B (*n*)

(…)

**Cases included (n)**

Subgroup A (*n*)

Subgroup B (*n*)

(…)

**Cases for analysis (n)**

Subgroup A (*n*)

Subgroup B (*n*)

(...)

Final data cleaning

**Footnote:** This flowchart can be adapted to provide details on data selection for different types of real-world evidence studies in oncology. Some suggestion for its use and adaptation:

* If only one dataset is used, delete information related to “dataset 2+” and dataset linkage or merging
* Page orientation can be changed to landscape if useful for better visualization (e.g.> 2 datasets).
* If multiple datasets are used, we suggest to provide aggregated analysis to a maximum of 3 at the “data source” level. If relevant, more details per dataset could be provided in supplementary material and/or described in the manuscript.
* Dashed lines represent possibilities for linkage between datasets, to be adapted in each study.
* For particular cases (e.g. cost-effectiveness and use of validation cohorts) the flowchart can be adapted and details for each groups provided.

**To access full manuscripts and for citations, please consider the following references and links:**

* Castelo-Branco L et al. “ESMO Guidance for Reporting Oncology real-World evidence (GROW)". Ann Oncol 2023; 34: 10.1016/j.annonc.2023.10.001
* Castelo-Branco L et al. “ESMO Guidance for Reporting Oncology real-World evidence (GROW)". ESMO Real World Data & Digital Oncol 2023; 1: 10.1016/j.esmorw.2023.10.001