

## What's new in DF8 endpoints

Number of GWAS runs reduced for DF8. This is done by categorizing endpoints into core and non-core endpoints

- FinnGen **core endpoint** is an **endpoint for which GWAS analysis** is run by Analysis team and results are visible in **PheWeb**
- **Non-core endpoints are omitted**; they can be found only in **Risteys/Sandbox**, and users can run Custom GWAS if needed

**Core vs. non-core categorization** uses the **OMIT indicator** (column D in endpoint Spreadsheets (<https://www.finngen.fi/en/researchers/clinical-endpoints>)) and all endpoints **n < 80 are excluded** from GWAS runs

Core endpoint reduction for DF8

- Redundant ICD-10 codes omitted:
  - R18 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified
  - ST19 Injury, poisoning and certain other consequences of external causes
  - VWXY20 External causes of morbidity and mortality
  - Z21 Factors influencing health status and contact with health services
  - U22 Codes for special purpose
  - Level 1 endpoints (broad upper categories, ie AB1\_INFECTIONS)
- Correlated endpoints omitted
  - Correlation runs on DF7
    - Correlated endpoints assigned to clusters
    - Top endpoint retained within each cluster
  - Clinical evaluation of “top endpoints”
- Systematic control selection for cancer endpoints
  - EXALLC version selected for malignant cancers (C3\_)
  - EXALLC version omitted for benign cancers (CD2\_BENIGN\_)

All FinnGen core and non-core endpoints can be found at <https://www.finngen.fi/en/researchers/clinical-endpoints>

- Spreadsheet:  
FINNGEN\_CORE\_AND\_NONCORE\_ENDPOINTS\_AND\_CONTROLS\_DF8