### Norwegian Linked Health registry at University of Oslo, Pregnancy cohort

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### Administrative details

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#### Data source ID

100000410

#### Data source acronym

NLHR@UiO:PERINATAL

#### Data holder

University of Oslo

### Data source type

Birth registry

Hospital inpatient records Hospital outpatient visit records Pharmacy dispensing records Primary care medical records

#### **Care setting**

Hospital inpatient care Hospital outpatient care Primary care – GP, community pharmacist level Primary care – specialist level (e.g. paediatricians)

#### Data source qualification

If the data source has successfully undergone a formal qualification process (e.g., from the EMA, ISO or other certifications), this should be described.

No

### **Contact details**

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### Data source regions and languages

#### Data source countries

Norway

#### Data source languages

Bokmål, Norwegian English

### Data source establishment

#### Data source established

15/09/2020

#### Data source time span

First collection: 01/01/2004
The date when data started to be collected or extracted.
Last collection: 31/12/2019
If data collection in the data source has ceased, the date new records last

If data collection in the data source has ceased, the date new records last entered the data source.

### Data elements collected

# The data source contains the following information

#### **Disease information**

Does the data source collect information with a focus on a specific disease? This might be a patient registry or other similar initiatives.

Yes

#### **Rare diseases**

Are rare diseases captured? In the European Union a rare disease is one that affects no more than 5 people in 10,000.

Yes

#### **Pregnancy and/or neonates**

Does the data source collect information on pregnant women and/or neonatal subpopulation (under 28 days of age)?

Yes

#### Hospital admission and/or discharge

Yes

#### **ICU** admission

Is information on intensive care unit admission available?

No

#### **Cause of death**

Not Captured

#### **Prescriptions of medicines**

Not Captured

#### **Prescriptions vocabulary**

ATC

#### **Dispensing of medicines**

Captured

#### **Dispensing vocabulary**

ATC

#### Advanced therapy medicinal products (ATMP)

Is information on advanced therapy medicinal products included? A medicinal product for human use that is either a gene therapy medicinal product, a somatic cell therapy product or a tissue engineered products as defined in Regulation (EC) No 1394/2007 [Reg (EC) No 1394/2007 Art 1(1)].

No

#### Contraception

Is information on the use of any type of contraception (oral, injectable, devices etc.) available?

Yes

#### Indication for use

Does the data source capture information on the therapeutic indication for the use of medicinal products?

Not Captured

#### **Medical devices**

Is information on medicinal devices (e.g., pens, syringes, inhalers) available?

No

#### Administration of vaccines

No

#### Procedures

Does the data source capture information on procedures (e.g., diagnostic tests, therapeutic, surgical interventions)?

Captured

#### **Procedures vocabulary**

ICPC-2

#### Healthcare provider

Is information on the person providing healthcare (e.g., physician, pharmacist, specialist) available? The healthcare provider refers to individual health professionals or a health facility organisation licensed to provide health care diagnosis and treatment services including medication, surgery and medical devices.

No

#### **Clinical measurements**

Is information on clinical measurements (e.g., BMI, blood pressure, height) available?

Yes

#### **Genetic data**

Are data related to genotyping, genome sequencing available?

Not Captured

#### **Biomarker data**

Does the data source capture biomarker information? The term "biomarker" refers to a broad subcategory of medical signs ( objective indications of medical state observed from outside the patient), which can be measured accurately and reproducibly. For example, haematological assays, infectious disease markers or metabolomic biomarkers.

Not Captured

#### **Patient-reported outcomes**

Is information on patient-reported outcomes (e.g., quality of life) available?

No

#### **Patient-generated data**

Is patient-generated information (e.g., from wearable devices) available?

No

#### Units of healthcare utilisation

Are units of healthcare utilisation (e.g., number of visits to GP per year, number of hospital days) available or can they be derived? Units of healthcare utilisation refer to the quantification of the use of services for the purpose of preventing or curing health problems.

Yes

#### **Unique identifier for persons**

Are patients uniquely identified in the data source?

Yes

#### **Diagnostic codes**

Captured

#### Diagnosis / medical event vocabulary

ICD-10

ICPC-2

#### Medicinal product information

Captured

#### Medicinal product information collected

Active ingredient(s)

Dose

Package size

Strength

#### Medicinal product vocabulary

ATC

#### **Quality of life measurements**

Not Captured

#### Lifestyle factors

Not Captured

#### Sociodemographic information

Captured

#### Sociodemographic information collected

Age

Sex

### Quantitative descriptors

# Estimated percentage of the population covered by the data source in the catchment area

This data set cover people (mother-father-child related to a pregnancy record in Birth registry) in the entire country of Norway, covering all individuals with a pregnancy event > GW12 from 2008 to 2019.

### Family linkage

## Family linkage available in the data source permanently or can be created on an ad hoc basis

Permanently

#### Family linkage available between the following persons

Father-child Mother-child

### Population

#### **Population size**

1939851

Active population size

### Median observation time

Median time (years) between first and last available records for unique active individuals (alive and currently registered) capt 15.90

### Data flows and management

#### **Biospecimen access**

Are biospecimens available in the data source (e.g., tissue samples)?

No

#### Access to subject details

Can individual patients/practitioners/practices included in the data source be contacted?

### Event triggering registration

#### Event triggering registration of a person in the data source

Birth

#### Event triggering de-registration of a person in the data source

Death

Emigration

#### Event triggering creation of a record in the data source

Contacting health-care providers including GP and hospital visits

### Data source linkage

#### Linkage

Is the data source described created by the linkage of other data sources (prelinked data source) and/or can the data source be linked to other data source on an ad-hoc basis?

No

#### Linkage description, pre-linked

Norway has a universal public health care system consisting of primary and specialist health care services covering the inhabitant population. Many population-based health registries were established in the 1960s with use of unique personal identifiers facilitating linkage between registries.

#### Linkage description, possible linkage

We harmonized data from the following registries: the Medical Birth Registry of Norway (MBRN), the Norwegian Prescribed Drug Registry (NorPD) and Norway Control and Payment of Health Reimbursement (KUHR). Linkage between the registries was facilitated using project-specific person ID generated from unique personal identification assigned at birth or immigration for all legal residents in Norway.

### Data management specifications that apply for the data source

#### Possibility of data validation

Can validity of the data in the data source be verified (e.g., access to original medical charts)?

No

#### Data source preservation

Are records preserved in the data source indefinitely?

No

#### **Approval for publication**

Is an approval needed for publishing the results of a study using the data source?

No

#### Data source last refresh

15/09/2020

### Common Data Model (CDM) mapping

#### **CDM mapping**

Has the data source been converted (ETL-ed) to a common data model?

Yes

**CDM Mappings** 

#### CDM name

OMOP

#### **CDM** website

https://www.ohdsi.org/Data-standardization/

#### **Data source ETL CDM version**

5.4

#### Data source ETL status

Completed