**D19:** Find ingredients for an indication by indication type

This query provides all ingredients that are indicated for a certain condition. In addition, it provides the type of indication: FDA-approved, off-label (both based on FDB indication classes) and may treat and may prevent (both based on NDF-RT). Indications have to be provided as FDB indications (vocabulary\_id=19) or NDF-RT (vocabulary\_id=7).

**Sample query:**

SELECT DISTINCT

ingredient.concept\_id as ingredient\_concept\_id,

ingredient.concept\_name as ingredient\_concept\_name,

ingredient.concept\_code as ingredient\_concept\_code,

rn.relationship\_name as indication\_type,

indication\_relation.relationship\_id

FROM

concept\_relationship indication\_relation

INNER JOIN

concept\_ancestor a ON a.ancestor\_concept\_id=indication\_relation.concept\_id\_2

INNER JOIN

concept ingredient ON ingredient.concept\_id=a.descendant\_concept\_id

INNER JOIN

relationship rn ON rn.relationship\_id = indication\_relation.relationship\_id

WHERE

indication\_relation.concept\_id\_1 = 4345991 AND

ingredient.vocabulary\_id = 8 AND

ingredient.concept\_level = 2 AND

indication\_relation.relationship\_id in (21,23,155,157,126,127,240,241,281,282) AND

sysdate BETWEEN ingredient.valid\_start\_date AND ingredient.valid\_end\_date;

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Example** | **Mandatory** | **Notes** |
| Indication Concept ID | 4345991 | Yes | FDB indication concept for 'Vomiting' |
| As of date | Sysdate | No | Valid record as of specific date. Current date – sysdate is a default |

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| Ingredient\_Concept\_ID | Concept ID of the ingredient |
| Ingredient\_Concept\_Name | Name of the ingredient |
| Ingredient\_Concept\_Code | Concept code of the ingredient |
| Indication\_Type | One of the FDB, NDF-RT or OMOP inferred indication types |
| Relationship\_id | Corresponding relationship ID to the Indication Type |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| Ingredient\_Concept\_ID | 733008 |
| Ingredient\_Concept\_Name | Perphenazine |
| Ingredient\_Concept\_Code | 8076 |
| Indication\_Type | Inferred ingredient of (OMOP) |
| Relationship\_id | 281 |