***Health data queries*** (dark blue = postgreSQL)

* Top 5 drugs causing adverse effects

|  |  |
| --- | --- |
| Drugname | Count |
| "XARELTO" | "33699" |
| "XYREM" | "23560" |
| "ENBREL" | "18192" |
| "REVLIMID" | "14202" |
| "ASPIRIN." | "9896" |

SELECT drugname, COUNT(\*) as count FROM DRUG16Q3 GROUP by drugname order by count desc limit 5

SELECT drugs.drugname, COUNT(\*) as counts
FROM health.drugs
group by drugs.drugname order by counts desc limit 5;

* Xarelto adverse effects & gender

SELECT DRUG16Q3.drugname, DRUG16Q3.role\_cod, DEMO16Q3.sex, COUNT(\*) as count FROM DRUG16Q3 JOIN DEMO16Q3 ON DRUG16Q3.primaryid=DEMO16Q3.primaryid WHERE DRUG16Q3.drugname= "XARELTO" AND DRUG16Q3.role\_cod="PS" group by DEMO16Q3.sex order by count

|  |  |  |  |
| --- | --- | --- | --- |
| Drugname | Role\_cod | Sex | count |
| "XARELTO" | "PS" | "" | "1193" |
| "XARELTO" | "PS" | "F" | "4248" |
| "XARELTO" | "PS" | "M" | "4335" |

SELECT drugs.drugname, drugs.role\_cod, demographics.sex, COUNT(\*) as count
FROM health.drugs JOIN health.demographics ON health.drugs.primaryid = health.demographics.primaryid
WHERE drugs.drugname='XARELTO' AND drugs.role\_cod='PS'
GROUP BY demographics.sex, drugs.drugname, drugs.role\_cod order by count;

* Number of cases where Xarleto is a “Priority Suspect” (PS) Drug

SELECT drugname, role\_cod, COUNT(\*) as count FROM DRUG16Q3 WHERE drugname= "XARELTO" AND role\_cod="PS" order by count

|  |  |  |
| --- | --- | --- |
| Drugname | Role\_cod | count |
| "XARELTO" | "PS" | "9776" |

* Grouping of PS Xarelto Cases causing conditions

|  |  |  |  |
| --- | --- | --- | --- |
| Pt | Drugname | Role\_cod | Count |
| "Gastrointestinal haemorrhage" | "XARELTO" | "PS" | "2997" |
| "Internal haemorrhage" | "XARELTO" | "PS" | "880" |
| "Rectal haemorrhage" | "XARELTO" | "PS" | "645" |
| "Haematuria" | "XARELTO" | "PS" | "484" |
| "Upper gastrointestinal haemorrhage" | "XARELTO" | "PS" | "464" |
| "Epistaxis" | "XARELTO" | "PS" | "442" |
| "Haemorrhage" | "XARELTO" | "PS" | "386" |
| "Acute kidney injury" | "XARELTO" | "PS" | "338" |
| "Lower gastrointestinal haemorrhage" | "XARELTO" | "PS" | "305" |
| "Off label use" | "XARELTO" | "PS" | "304" |
| "Cerebrovascular accident" | "XARELTO" | "PS" | "280" |

SELECT REAC16Q3.PT, DRUG16Q3.drugname, DRUG16Q3.role\_cod, COUNT(\*) as count FROM DRUG16Q3 JOIN REAC16Q3 ON DRUG16Q3.primaryid = REAC16Q3.primaryid WHERE DRUG16Q3.drugname = "XARELTO" AND DRUG16Q3.role\_cod = "PS" GROUP BY REAC16Q3.PT ORDER BY count desc

* Age\_groups & Xarelto

SELECT DRUG16Q3.drugname, DRUG16Q3.role\_cod, DEMO16Q3.age\_grp, COUNT(\*) as count FROM DRUG16Q3 JOIN DEMO16Q3 ON DRUG16Q3.primaryid=DEMO16Q3.primaryid WHERE DRUG16Q3.drugname= "XARELTO" AND DRUG16Q3.role\_cod="PS" group by DEMO16Q3.age\_grp order by count desc

|  |  |  |  |
| --- | --- | --- | --- |
| Drugname | Role\_cod | Age\_grp | Count |
| "XARELTO" | "PS" | "E" | "5209" |
| "XARELTO" | "PS" | "A" | "2854" |
| "XARELTO" | "PS" | "" | "1703" |
| "XARELTO" | "PS" | "T" | "8" |
| "XARELTO" | "PS" | "C" | "1" |

N= Neonate, I=Infant, C=Child, T=Adolescent, A=Adult, E=Elderly

* Indications for Xarelto

SELECT DRUG16Q3.drugname, INDI16Q3.indi\_pt, COUNT(\*) as count FROM DRUG16Q3 JOIN INDI16Q3 ON DRUG16Q3.primaryid= INDI16Q3.primaryid WHERE DRUG16Q3.drugname= "XARELTO" Group by INDI16Q3.indi\_pt ORDER by count desc limit 15

|  |  |  |
| --- | --- | --- |
| Drugname | Indi\_pt | Count |
| "XARELTO" | "Atrial fibrillation" | "41012" |
| "XARELTO" | "Product used for unknown indication" | "40004" |
| "XARELTO" | "Cerebrovascular accident prophylaxis" | "38174" |
| "XARELTO" | "Thrombosis prophylaxis" | "36411" |
| "XARELTO" | "Deep vein thrombosis" | "8825" |
| "XARELTO" | "Pulmonary embolism" | "6220" |
| "XARELTO" | "Embolism venous" | "2495" |
| "XARELTO" | "Embolism" | "2344" |
| "XARELTO" | "Thrombosis" | "2156" |
| "XARELTO" | "Anticoagulant therapy" | "1375" |
| "XARELTO" | "Hypertension" | "1256" |
| "XARELTO" | "Coronary artery disease" | "1168" |
| "XARELTO" | "Knee arthroplasty" | "797" |
| "XARELTO" | "Atrial flutter" | "705" |
| "XARELTO" | "Cardiac disorder" | "600" |

* Xarelto, Primary Suspect, and Outcomes

SELECT DRUG16Q3.drugname, DRUG16Q3.role\_cod, OUTC16Q3.outc\_cod, COUNT(\*) as count FROM DRUG16Q3 JOIN OUTC16Q3 ON DRUG16Q3.primaryid= OUTC16Q3.primaryid WHERE DRUG16Q3.drugname= "XARELTO" AND DRUG16Q3.role\_cod="PS" Group by OUTC16Q3.outc\_cod ORDER by count desc

|  |  |  |  |
| --- | --- | --- | --- |
| Drugname | Role\_cod | Outc\_cod | count |
| "XARELTO" | "PS" | "HO" | "7126" |
| "XARELTO" | "PS" | "OT" | "2613" |
| "XARELTO" | "PS" | "DE" | "1047" |
| "XARELTO" | "PS" | "LT" | "193" |
| "XARELTO" | "PS" | "DS" | "62" |

**DE** = Death, **LT**= Life Threatening, **HO** = hospitalization, **DS**= Disability, CA= Congenital Anomaly, RI = Required Intervention, OT = Other Serious (Important Medical Event)

* Age groups of those who had “DE” outcome with Xarelto (as PS)

SELECT DRUG16Q3.drugname, OUTC16Q3.outc\_cod, DEMO16Q3.age\_grp, DRUG16Q3.role\_cod, COUNT(\*) as count FROM DRUG16Q3 JOIN OUTC16Q3 JOIN DEMO16Q3 ON DRUG16Q3.primaryid= OUTC16Q3.primaryid AND DRUG16Q3.primaryid = DEMO16Q3.primaryid WHERE DRUG16Q3.drugname= “XARELTO” AND OUTC16Q3.outc\_cod= “DE” AND DRUG16Q3.role\_cod = "PS" Group by DEMO16Q3.age\_grp ORDER by count

* Age groups of those who had “HO” outcome with Xarelto (as PS)

SELECT DRUG16Q3.drugname, OUTC16Q3.outc\_cod, DEMO16Q3.age\_grp, DRUG16Q3.role\_cod, COUNT(\*) as count FROM DRUG16Q3 JOIN OUTC16Q3 JOIN DEMO16Q3 ON DRUG16Q3.primaryid= OUTC16Q3.primaryid AND DRUG16Q3.primaryid = DEMO16Q3.primaryid WHERE DRUG16Q3.drugname= “XARELTO” AND OUTC16Q3.outc\_cod= “HO” AND DRUG16Q3.role\_cod = "PS" Group by DEMO16Q3.age\_grp ORDER by count

* Age groups of those who had “OT” outcome with Xarelto (as PS)

SELECT DRUG16Q3.drugname, OUTC16Q3.outc\_cod, DEMO16Q3.age\_grp, DRUG16Q3.role\_cod, COUNT(\*) as count FROM DRUG16Q3 JOIN OUTC16Q3 JOIN DEMO16Q3 ON DRUG16Q3.primaryid= OUTC16Q3.primaryid AND DRUG16Q3.primaryid = DEMO16Q3.primaryid WHERE DRUG16Q3.drugname= “XARELTO” AND OUTC16Q3.outc\_cod= “OT” AND DRUG16Q3.role\_cod = "PS" Group by DEMO16Q3.age\_grp ORDER by count