

SQL: Immunizations by Age 2 - HEDIS Combo 2

Last Modified on 01/06/2022 10:16 am EST

i There are **two versions** of this SQL: Firebird and MySQL. The **MySQL version** only applies to clients who are **BETA testing MySQL**. All other Practices should continue to use the Firebird version of this code. Click to expand and copy the code you need. If you are unsure which code to use, please check with your Practice Administrator.

About

This report looks for active patients who are (on the run date of the report) between the ages of 1.8 years (that is 21.6 months) and not yet 2-years to see whether they pass or fail the **HEDIS CIS-2 metric**.

| Combination | DTap | IPV | MMR | HiB | Hep B | VZV | PCV | Hep A | RV | Influenza |
|---------------|------|-----|-----|-----|-------|-----|-----|-------|----|-----------|
| Combination 2 | 4 | 3 | 1 | 3 | 3 | 1 | - | - | - | - |

A sample image of this SQL report run in the Database Viewer is shown below:

FieldsData GridData DetailsFind by Name/DescriptionSQLSQL Jobs

Query name:Immunizations by Age 2 - HEDIS Combo 2

Description:

Results filename:

Run

Extract

Save CSV

Print

Send

```
select t.patno, t.ins_carrier_code, t.age, t.staffname,
case when (t.dtap >= 4 and t.mmr >= 1 and t.vzv >= 1 and t.hib >= 3 and t.ipv >= 3 and t.hepb >= 3) then 'pass'
else 'fail' end as CIS_complete
from
```

Drag a column header here to group by that column

| PATNO | INS CARRIER CODE | AGE | STAFFNAME | CIS COMPLETE |
|-------|------------------|------------|---------------------|--------------|
| 5881 | MED | 1.91666666 | OPDemo Doctor | pass |
| 5873 | MED | 1.91666666 | Elizabeth Blackwell | fail |
| 5882 | SP | 1.91666666 | OPDemo Doctor | fail |
| 5880 | SP | 1.91666666 | Robert Bloom | fail |
| 5870 | SP | 1.91666666 | Jeannine Becker | fail |

Caveats

- The listed provider is the PCP according to the Register (F2).
- It looks at all vaccines (both historical and administered by the practice).
- Even if a vaccine refusal is documented in OP, it does not change the calculations (as per HEDIS specifications).
- It also lists children who are, as of TODAY, between 1.8 years old (that is, 21.6 months) but not yet 2 years old. If you want to look at a different cohort based on how old they are now, you can change the 1.8 and 2.
- The influenza antigens are not listed in this report.

SQL Code: Firebird

To highlight and copy the code below to your clipboard, simply click the **Copy** button.

Copy

```
select t.patno, t.ins_carrier_code, t.age, t.staffname,
case when (t.dtap>=4 and t.mmr >=1 and t.vzv>=1 and t.hib >=3 and t.ipv >=3 and t.hepB >=3) then 'pass' else 'fail'
end as CIS_complete
from
(
select r.patno, r.birthdat, r.ins_carrier_code, r.age, r.staffname, mmr.total_cvx as mmr, vzv.total_cvx as vzv, rota.total_c
vx as rota, pcv.total_cvx as pcv, hepa.total_cvx as hepa, hepB.total_cvx as hepB, ipv.total_cvx as ipv, hib.total_cvx as hib
, dtap.total_cvx as dtap from
(
select patno, birthdat, staffname, ins_carrier_code, datediff(month,birthdat,cast('today' as date))/12 as age from register
inner join staff1 on staff1.staffid=register.addr_id
where status_pat = 'ACTIVE' and datediff(month,birthdat,cast('today' as date))/12 > 1.8 and datediff(month,birthdat,ca
st('today' as date))/12 <2
) r
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('03','94') group by patno ) mm
r on mmr.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('21','94') group by patno) vzv o
n vzv.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('119','116') group by patno) ro
ta on rota.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('20','50','106','120','110') group
by patno) dtap on dtap.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('133') group by patno) pcv on
pcv.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('50','46','47','48','49','51','120')
group by patno) hib on hib.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('83') group by patno) hepA on
hepa.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('110','51','08','44') group by pat
no) hepB on hepB.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('110','120','10') group by patno
) ipv on ipv.patno = r.patno
) t
order by ins_carrier_code
```

SQL Code: MySQL

To highlight and copy the code below to your clipboard, simply click the **Copy** button.

Copy

```
select t.patno, t.ins_carrier_code, t.age, t.staffname,
case when (t.dtap>=4 and t.mmr >=1 and t.vzv>=1 and t.hib >=3 and t.ipv >=3 and t.hepB >=3) then 'pass' else 'fail'
end as CIS_complete
from
(
select r.patno, r.birthdat, r.ins_carrier_code, r.age, r.staffname, mmr.total_cvx as mmr, vzv.total_cvx as vzv, rota.total_c
vx as rota, pcv.total_cvx as pcv, hepa.total_cvx as hepa, hepB.total_cvx as hepB, ipv.total_cvx as ipv, hib.total_cvx as hib
, dtap.total_cvx as dtap from
(
select patno, birthdat, staffname, ins_carrier_code, (timestampdiff(month,birthdat,curdate()))/12 as age from register
inner join staff1 on staff1.staffid=register.addr_id
where status_pat = 'ACTIVE' and (timestampdiff(month,birthdat,curdate()))/12 >= 1.8 and (timestampdiff(month,birth
dat,curdate()))/12 <2
) r
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('03','94') group by patno ) mm
r on mmr.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('21','94') group by patno) vzv o
n vzv.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('119','116') group by patno) ro
ta on rota.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('20','50','106','120','110') group
by patno) dtap on dtap.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('133') group by patno) pcv on
pcv.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('50','46','47','48','49','51','120')
group by patno) hib on hib.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('83') group by patno) hepA on
hepa.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('110','51','08','44') group by pat
no) hepB on hepB.patno = r.patno
left outer join (select patno, count(cvxcode) as total_cvx from vaccine1 where cvxcode in ('110','120','10') group by patno
) ipv on ipv.patno = r.patno
) t
order by ins_carrier_code
```