

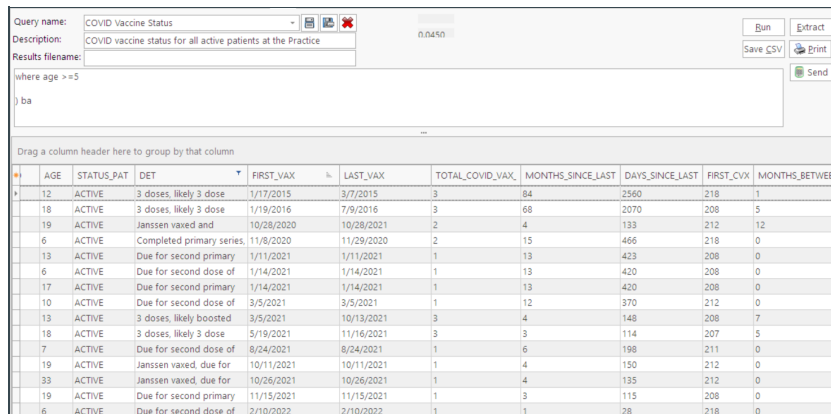
SQL: COVID Vaccine Status

Last Modified on 10/07/2022 4:02 pm EDT

About

COVID vaccine status for all active patients at the Practice.

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



AGE	STATUS_PAT	DET	FIRST_VAX	LAST_VAX	TOTAL_COVID_VAX	MONTHS_SINCE_LAST	DAYS_SINCE_LAST	FIRST_CVX	MONTHS_BETWEEN
12	ACTIVE	3 doses, likely 3 dose	1/17/2015	3/7/2015	3	84	2560	218	1
18	ACTIVE	3 doses, likely 3 dose	1/19/2016	7/9/2016	3	68	2070	208	5
19	ACTIVE	Janssen vaxed and	10/28/2020	10/28/2021	2	4	133	212	12
6	ACTIVE	Completed primary series	11/8/2020	11/29/2020	2	15	466	218	0
13	ACTIVE	Due for second primary	1/11/2021	1/11/2021	1	13	423	208	0
6	ACTIVE	Due for second dose of	1/14/2021	1/14/2021	1	13	420	208	0
17	ACTIVE	Due for second primary	1/14/2021	1/14/2021	1	13	420	208	0
10	ACTIVE	Due for second dose of	3/5/2021	3/5/2021	1	12	370	212	0
13	ACTIVE	3 doses, likely boosted	3/5/2021	10/13/2021	3	4	148	208	7
18	ACTIVE	3 doses, likely 3 dose	5/19/2021	11/16/2021	3	3	114	207	5
7	ACTIVE	Due for second dose of	8/24/2021	8/24/2021	1	6	198	211	0
19	ACTIVE	Janssen vaxed, due for	10/11/2021	10/11/2021	1	4	150	212	0
33	ACTIVE	Janssen vaxed, due for	10/26/2021	10/26/2021	1	4	135	212	0
19	ACTIVE	Due for second primary	11/15/2021	11/15/2021	1	3	115	208	0
6	ACTIVE	Due for second dose of	2/10/2022	2/10/2022	1	1	28	218	0

Caveats

- COVID vaccines must be entered into a patient's immunization record, including when not vaccinated by the Practice.
- The SQL presumes that boosters will be ACIP and CDC approved for ages 12+ and the minimum booster interval for mRNA vaccines will be 5 months.
- The report does not check that the vaccine was given at the correct interval.

Code

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

Copy

```
select pvb.patno, pvb.age, pvb.status_pat,
case when pvb.det <> 'P' then pvb.det
when total_covid_vax_recd =2 and first_cvx in (212,'212') then 'Janssen vaxed and boosted'
when total_covid_vax_recd =1 and first_cvx in (212,'212') and months_since_last <2 then 'Janssen vaxed, too soon for
booster'
when total_covid_vax_recd = 1 and first_cvx in (212,'212') and months_since_last >=2 then 'Janssen vaxed, due for b
ooster'
when total_covid_vax_recd = 2 and first_cvx in (207,'207',208,'208') and months_since_last >=5 then 'mRNA vaxed, d
ue for booster'
when total_covid_vax_recd = 2 and first_cvx in (207,'207',208,'208') and months_since_last <5 then 'mRNA vaxed, to
o soon for booster'
when total_covid_vax_recd = 2 and months_since_last >=5 then 'nonspecific CVX records, probably due for booster'
when total_covid_vax_recd = 2 and months_since_last <5 then 'nonspecific CVX records, probably too soon for booste
r'
when total_covid_vax_recd = 1 and first_cvx in (208,'208',217,'217',218,'218' ) and days_since_last < 21 then 'Too so
on for second primary Pfizer dose'
when total_covid_vax_recd = 1 and first_cvx in (208,'208',217,'217',218,'218' ) and days_since_last >= 21 then 'Due f
or second primary Pfizer dose'
when total_covid_vax_recd = 1 and first_cvx in (207,'207' ) and days_since_last < 28 then 'Too soon for second primar
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y Moderna dose'
when total_covid_vax_recd = 1 and first_cvx in (207,'207' ) and days_since_last >= 28 then 'Due for second primary
Moderna dose'
when total_covid_vax_recd = 3 and months_between_fl >=6 then '3 doses, likely boosted'
when total_covid_vax_recd = 3 and months_between_fl <6 then '3 doses, likely 3 dose primary series'
else 'P' end as det,

pvb.first_vax, pvb.last_vax ,pvb.total_covid_vax_recd, pvb.months_since_last, pvb.days_since_last, pvb.first_cvx, pvb.
months_between_fl

from ( select ba.patno, ba.age, ba.status_pat, ba.first_vax ,ba.last_vax, ba.total_covid_vax_recd,
case when det = 'P' and booster_eligible = 'N' and total_covid_vax_recd = 2 then 'Completed primary series, not eligi
ble for booster'
when det = 'P' and booster_eligible = 'N' and total_covid_vax_recd = 1 and days_since_last >=21 then 'Due for secon
d dose of primary series'
when det = 'P' and booster_eligible = 'N' and total_covid_vax_recd = 1 and days_since_last <21 then 'Not yet due for
second dose of primary series' when det <> 'P' then det else 'P' end as det , ba.months_since_last, ba.days_since_last
, ba.first_cvx, ba.months_between_fl from
(
select br.patno, br.status_pat, br.age,
case when age<12 then 'N' else 'Y' end as booster_eligible, v1.total_covid_vax_recd,
case when total_covid_vax_recd is null then 'Needs primary dose(s)' else 'P'
end as det, first_vax, last_vax,
case when v1.total_covid_vax_recd >0 then
datediff(month, dateadd(day,-extract(day from last_vax)+1,last_vax), dateadd(day,-extract (day from last_vax)+1,cas
t('today' as date))) else 'X' end as months_since_last,
case when v1.total_covid_vax_recd >0 then
datediff(month, dateadd(day,-extract(day from first_vax)+1,first_vax), dateadd(day,-extract (day from first_vax)+1,la
st_vax)) else 'X' end as months_between_fl,
case when v1.total_covid_vax_recd >0 then
datediff(day,last_vax,cast('today' as date)) else 'X' end as days_since_last, v1.first_cvx
from (
select patno, status_pat, floor(datediff(month, dateadd(day,-extract(day from birthdat)+1,birthdat), dateadd(day,-extr
act (day from birthdat)+1,cast('today' as date)))/12) as age from register where status_pat in ('ACTIVE') and patno >9
9 and lname <> 'TESTPATIENT'
) br
left outer join (select a.*, first_cvx from
(select patno, min(vacdate) as first_vax, max(vacdate) as last_vax, count(vacname) as total_covid_Vax_recd from vac
cine1 where vacname like 'COVID%' group by patno) a inner join (select patno, cvxcode as first_cvx, vacdate from vac
cine1 where vacname like '%COVID%' ) v on v.patno = a.patno and v.vacdate=a.first_vax)
v1 on v1.patno = br.patno
where age >=5
) ba
) pvb
order by patno

```