

COVID-19 Vaccination in an Inner City HIV Clinic

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BACKGROUND

- Patients living with HIV (PLWH) are more likely to be hospitalized and experience increased rates of death from COVID-19.
- COVID-19 vaccination are safe with no significant serious life threatening side effects.
- COVID vaccines have been shown to reduce hospitalization and death from COVID pneumonia.
- COVID-19 vaccination rate for general population in the state of NJ is 74.9%.

OBJECTIVES

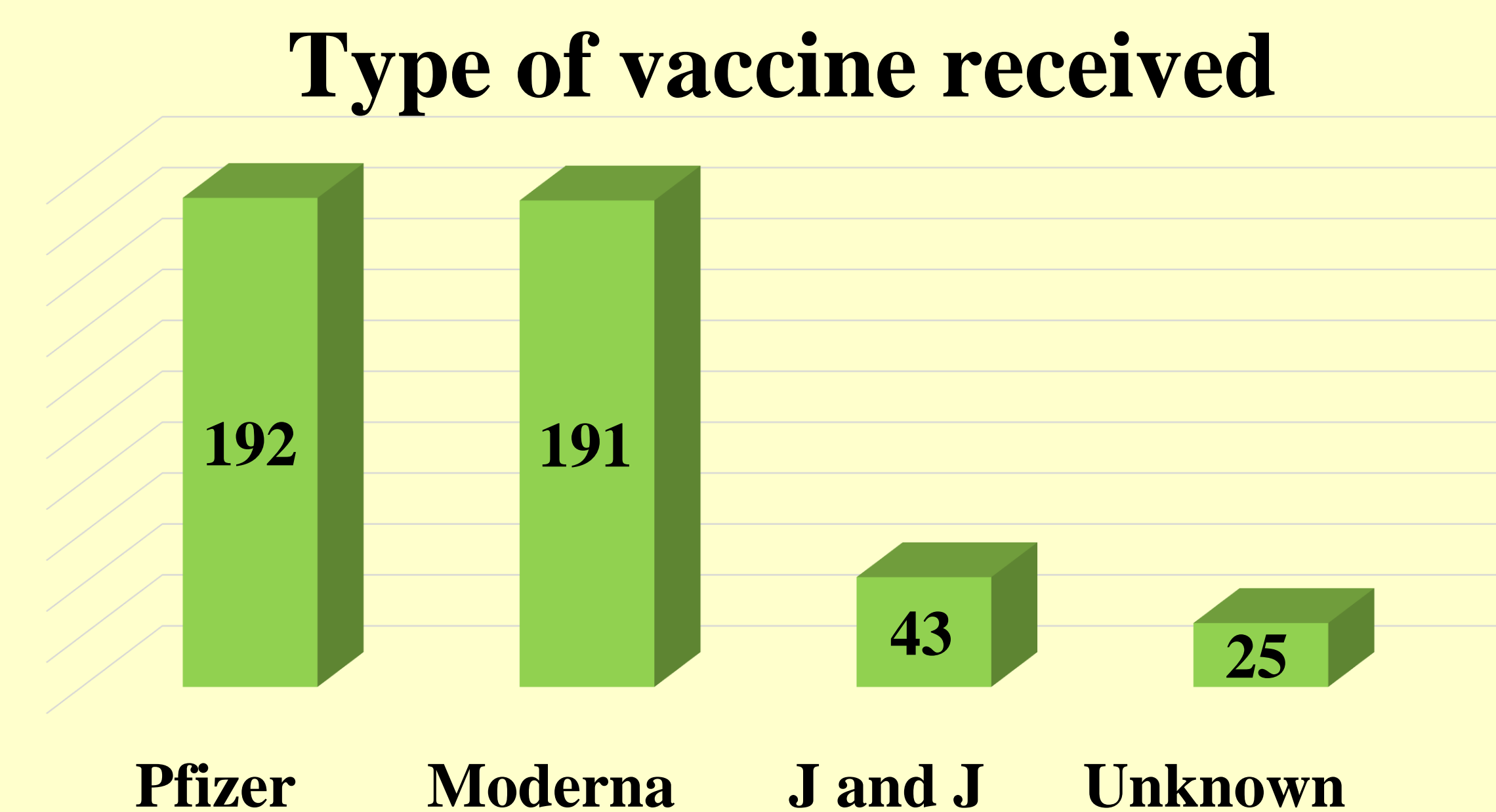
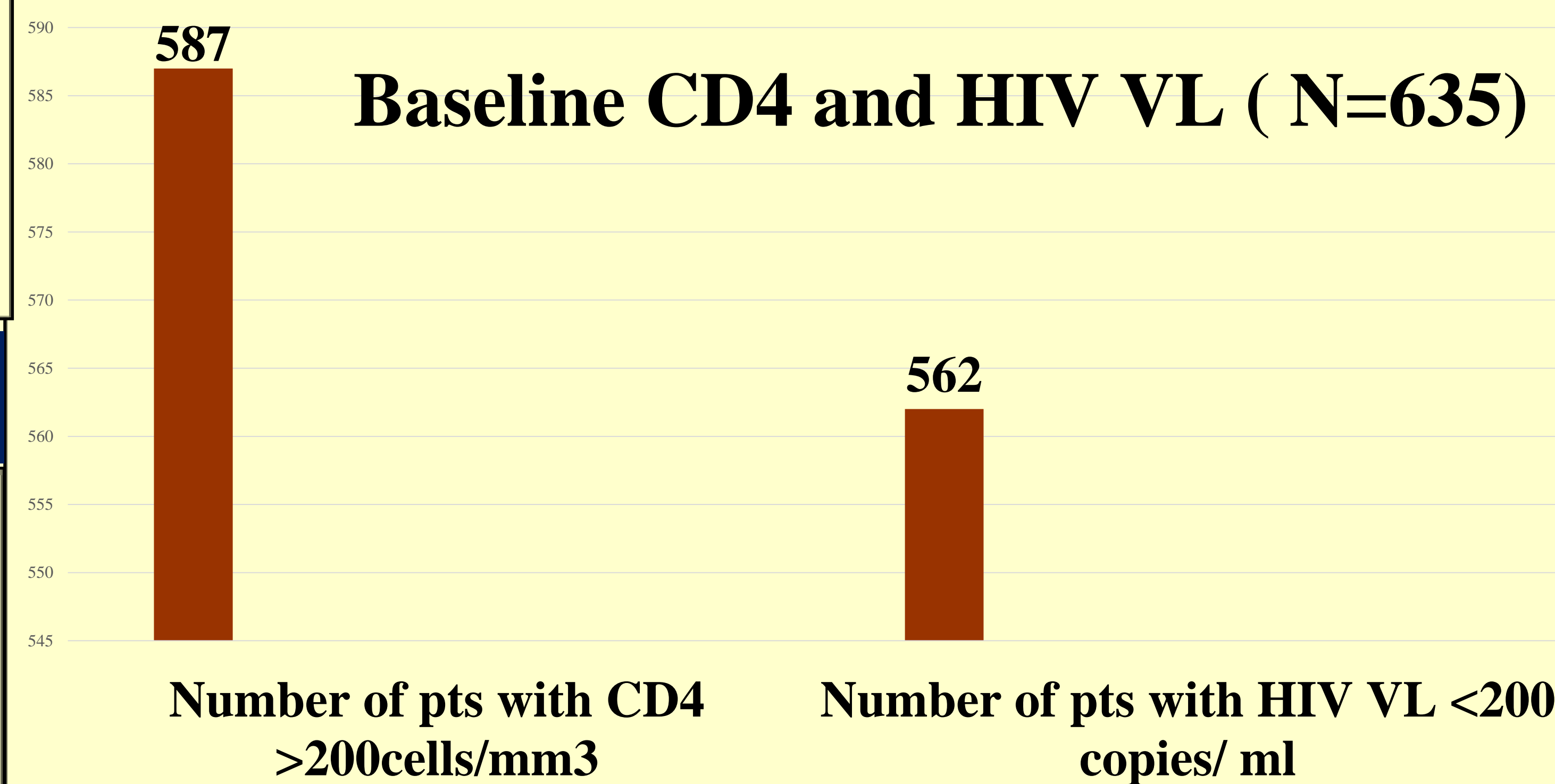
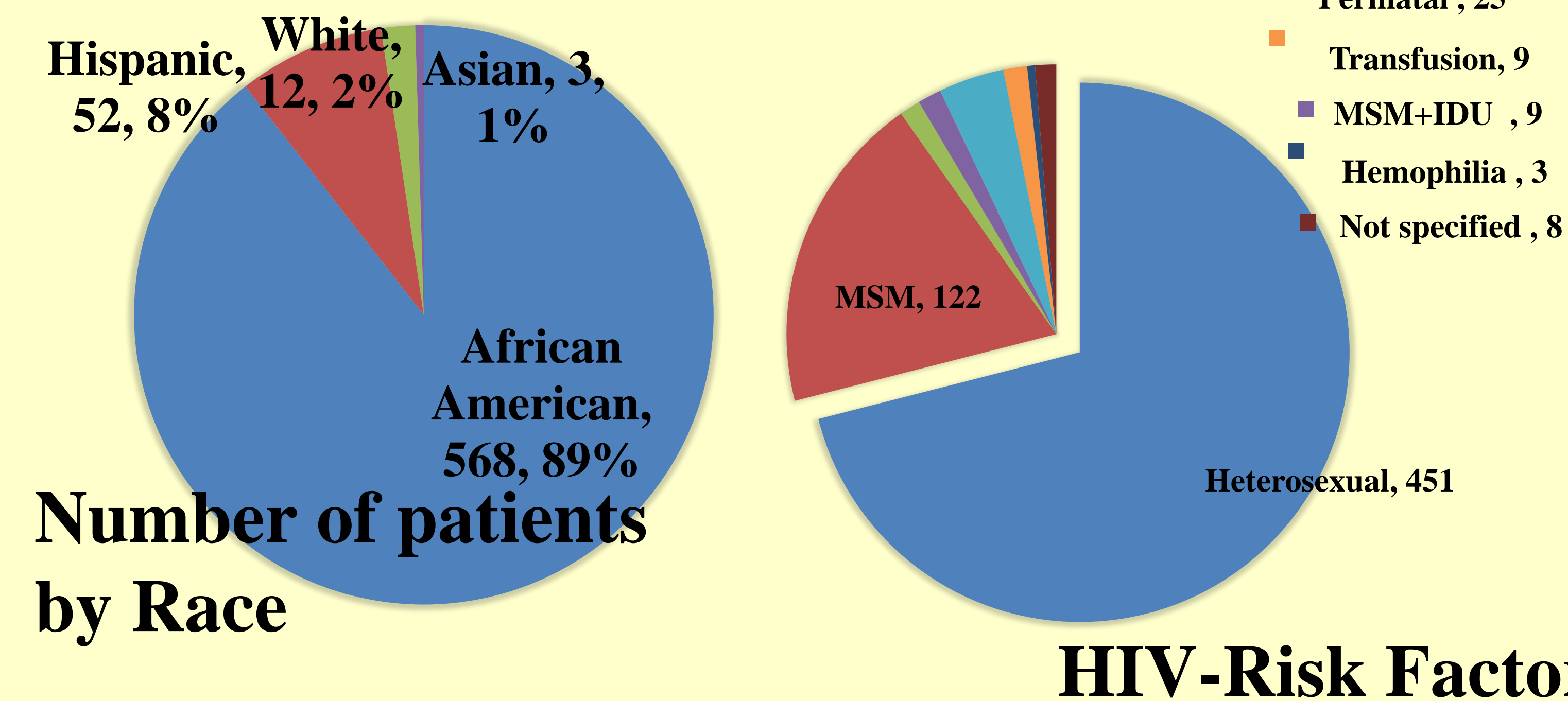
- To analyze COVID-19 vaccination rates in our HIV out patient clinic.
- To compare the incidence of COVID-19 infection between vaccinated and unvaccinated HIV pts.
- To compare the severity of COVID-19 infection requiring hospitalization between vaccinated and unvaccinated HIV pts.
- To assess mortality rate from COVID-19 between vaccinated and unvaccinated HIV pts.

METHODS

- Retrospective review in an outpatient HIV clinic in Newark NJ
- Study period 12/01/2020 - 12/30/2021.
- Data was collected on
 - Demographics,
 - CD4 count,
 - HIV Viral loads (VL),
 - Type of the COVID-19 vaccine received
 - Number of vaccines received
 - Incidence of COVID-19 infection in vaccinated and unvaccinated pts
 - Outcome of COVID-19 infection in vaccinated and unvaccinated pts.
- Student t-test used for comparison.

RESULTS

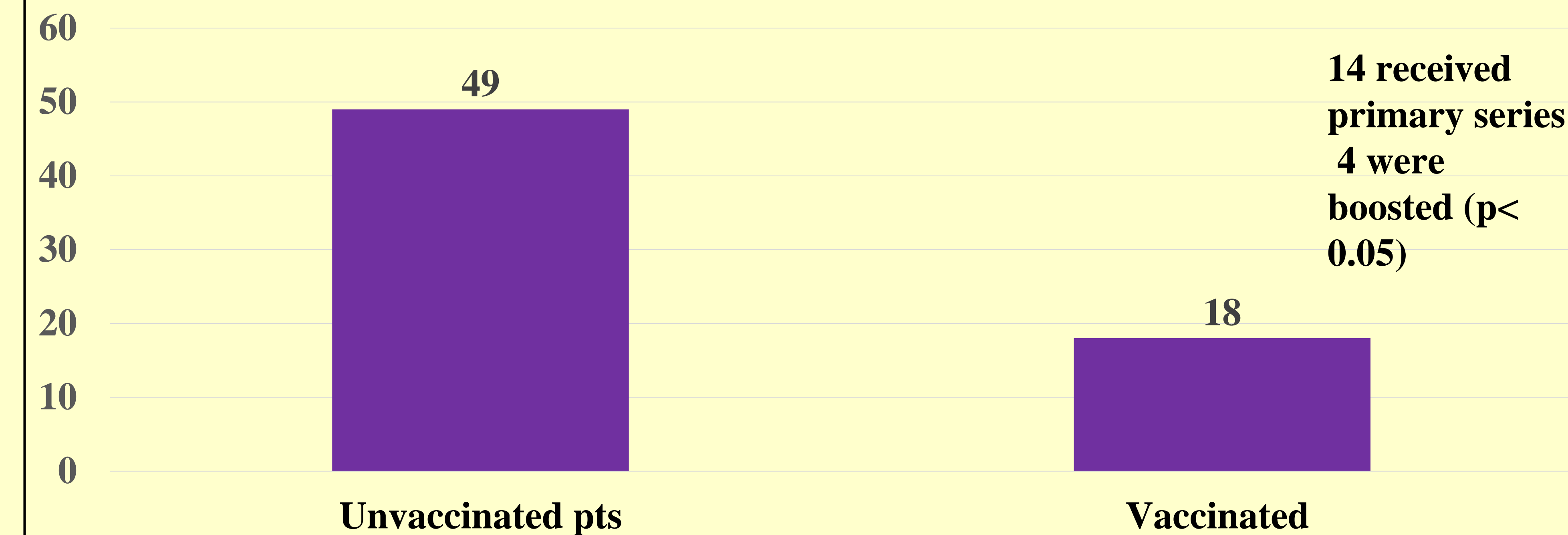
- A total of 635 pts were seen in clinic during the study period
- Median age 53years (Range 33-84)
- Males 316 (49.7%), transgender 3 (0.48%).



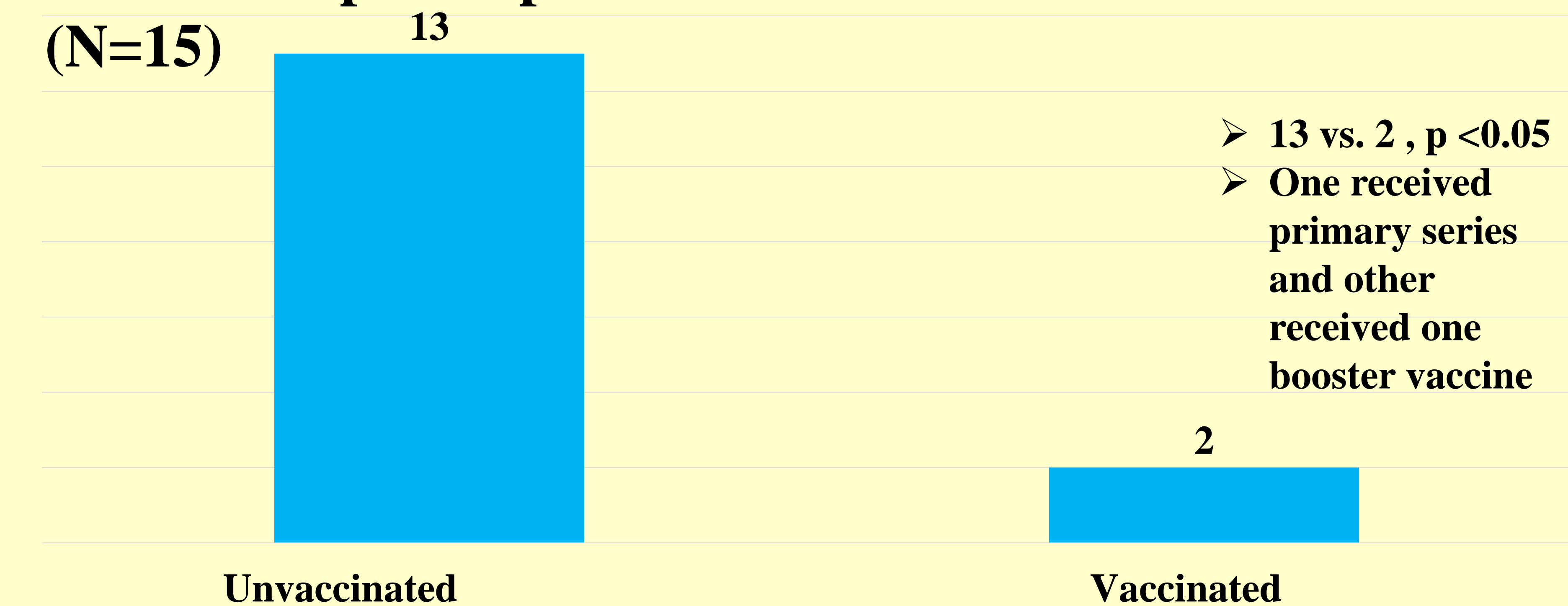
- Primary series completed in 442 (69.6%) pts.
- Booster dose in 126 (28.5%).
- Incomplete immunization in 7(4.4%).

RESULTS

Number of pts with COVID-19 infection (N=67)



Number of pts hospitalized with COVID-19 infection (N=15)



- Number of pts with CD4 > 200 cells/mm³ - 46/49(94 %) vs. 16/18 (88.8%) (p=NS)
- Number of pts with HIV VL < 200copies/mL - 46/49 (94%) vs.17/18(94%) (p=NS).
- One unvaccinated pt expired from COVID-19 .

CONCLUSIONS

- In our outpatient HIV clinic, PLWH had vaccine acceptance rates similar to the general population.
- More unvaccinated became infected and hospitalized than vaccinated pts.
- There was no difference in CD4 and HIV VL in COVID infected pts who were vaccinated vs. unvaccinated pts.