

SARS-CoV-2 antibody seroprevalence in a large HIV clinic cohort

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Introduction

London was one of the worst affected city in UK during the first wave of COVID-19 in 2020. Patients of our HIV clinic in central London were able to opt-in for the SARS-CoV-2 antibody test during the epidemic until Mid-January 2021 during their routine clinic blood test visit. A retrospective review was conducted to know the seroprevalence of SARS CoV-2 antibodies among this tested cohort.

Methods

Data was collected of people who opted-in and underwent SARS-CoV-2 antibody test in our clinic from May 2020 to mid-Jan 2021. Data on demographics, comorbidities, antiretrovirals, CD4 count, HIV viral load, and symptoms of COVID-19 were collected and analysed for people tested positive for antibodies.

Results

A total of 2567 people underwent SARS-CoV-2 antibody test. Among which 271 (10.6%) were positive - Male: 162 (59.8%), Female: 109 (40.2%), MSM: 97 (35.7%), Median age was 50 years (Range: 20 to 76 years).

270 (99.6%) were on ART and 267 (98.5%) had an undetectable HIV viral load (less than 200 copies/ml), Median CD4 count was 554 cells/ul (Range: 70 to 1338 cells/ul).

The prevalence of SARS-CoV-2 antibodies among tested cohort and corresponding seroprevalence among London general population during the same period are explained in chart 1 & 2.

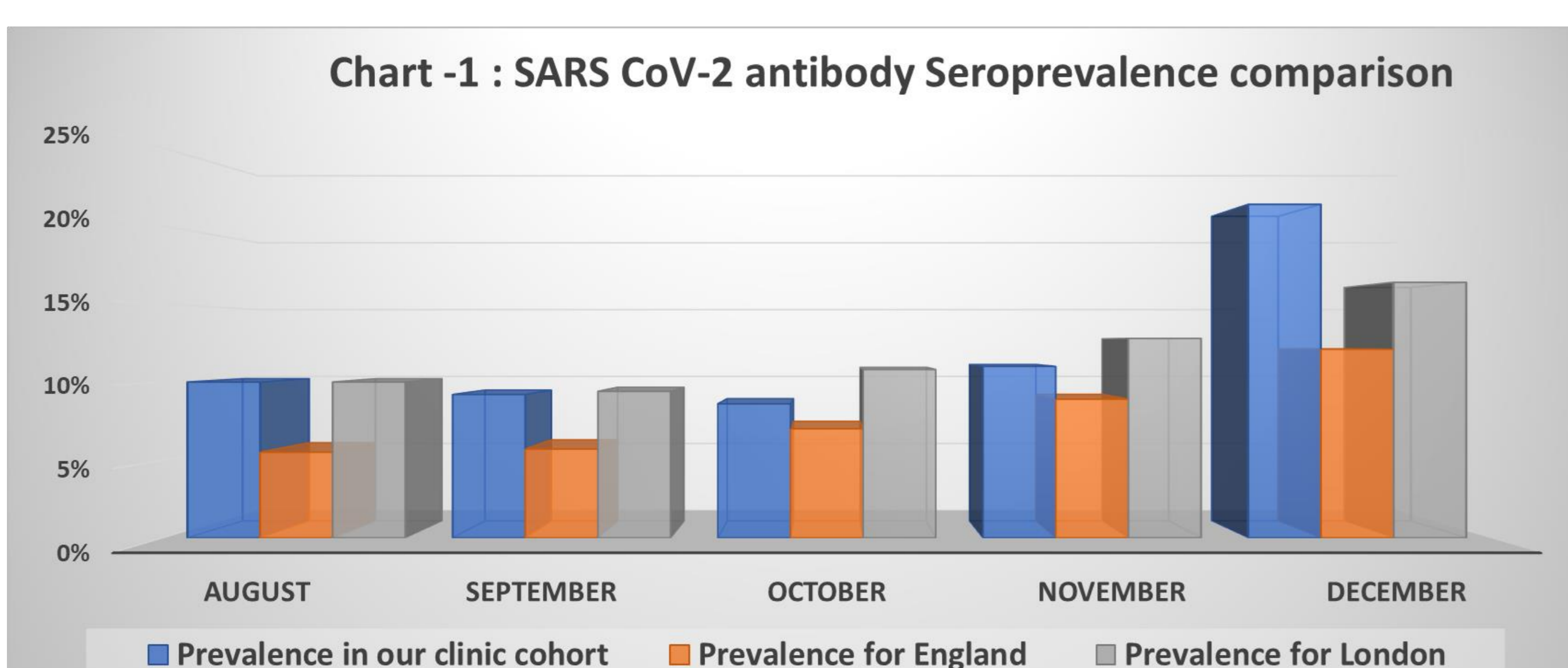


Chart 2 : Seroprevalence comparison from August to December 2020

Month of 2020	Total test conducted	Total positives	Prevalence in our clinic cohort	Prevalence for England ²	Prevalence for London ²
August	459	46	10%	5.5%	10%
September	759	70	9.2%	5.7%	9.4%
October	766	66	8.6%	7%	10.8%
November	509	56	11%	8.9%	12.8%
December	154	33	21.4%	12.1%	16.4%

Conclusion

Our study cohort of PLWH had a similar seroprevalence for SARS-CoV-2 antibody as the general population of London.

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References

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