

# Patient-Reported Reasons for not Enrolling in a COVID-19 Therapeutics Trial: Findings from a Multi-Center Investigation

Samira Reyes Dassum<sup>1</sup>, MD; Ryan Ferguson<sup>2,3,4</sup>, ScD; Patricia Woods<sup>2</sup>, RN; Maura Flynn<sup>2</sup>, RN; Karen Visnaw<sup>2</sup>, RN; Erika Holmberg<sup>2</sup>, MPH; Sara Schiller<sup>2</sup>, MPH; Colleen Shannon<sup>2</sup>; Mary Brophy<sup>2,3</sup>, MD; Paul Monach<sup>2,5,7</sup>, MD, PhD; Sarah Leatherman<sup>2</sup>, PhD; Westyn Branch-Elliman<sup>5,6,7</sup>, MD, MMSc and the VISN-1 Clinical Trials Network COVID-19 Investigators

1. Beth Israel Deaconess Medical Center, Department of Infectious Disease, Boston, MA, United States, 2. VA Boston Healthcare System, Cooperative Studies Program, Boston, MA, United States, 3. Boston University School of Medicine, Boston, MA, 4. Boston University School of Public Health, Boston, MA, 5. VA Boston Healthcare System, Department of Medicine, Boston, MA, United States, 6. VA Boston Center for Healthcare Organization and Implementation Research (CHOIR), Boston, MA, United States, 7. Harvard Medical School, Boston, MA

## BACKGROUND

Early in the pandemic, there were **NO EVIDENCE-BASED TREATMENTS** for SARS-CoV-2 and there was an **URGENT NEED TO IDENTIFY EFFECTIVE THERAPEUTICS**.

**PUBLIC PARTICIPATION IN MEDICAL RESEARCH IS LOW**, 10-20% in U.S. and a common reason why clinical trials are stopped.

Reasons for low enrollment are multifactorial:

- Limited perceived benefit
- Fear of adverse effects
- Physician influence
- Distrust

## OBJECTIVES

**Report** qualitative patient-reported reasons for declining to enroll in a Sarilumab COVID-19 Therapeutics trial.

**Identify** common themes behind patient decision making.

**Determine** impact of availability of different treatments on enrollment rates.

## METHODOLOGY

Observational study conducted in parallel to an open-label, pragmatic, RCT across 5 VA from April 10, 2020 to February 3, 2021.

Patients SARS-CoV-2 (PCR or Ag +) within 4 weeks of hospitalization for moderate to severe COVID-19.

Informed consent was most often performed virtually via VA-approved video-based platform and expected to take 20 minutes.

Patients not interested in enrolling were asked open-ended question about their reason(s). If unable to provide a reason, several categories were offered.

Enrollment rates by time period were analyzed.

**PERIOD 1** (< 6/25/2020): BEFORE EVIDENCE-BASED TREATMENTS WERE AVAILABLE

**PERIOD 2** (6/25/2020-8/26/2020): AFTER DEXAMETHASONE AND BEFORE TOCILIZUMAB WAS RECOMMENDED AGAINST

**PERIOD 3** (8/27/2020-3/5/2021): UNTIL END OF STUDY PERIOD





Enrollment rates assessed using simple descriptive statistics and qualitative responses were analyzed using direct content analysis.

## RESULTS

N=417 SARS-CoV-2 + PATIENTS WERE SCREENED



**Table 1: Patient reported reasons for non-enrollment**

THEMES	EXAMPLES/PATIENT STATEMENTS
<b>Perceived limited benefit/Distrust</b> 	<b>Patient factors</b> <ul style="list-style-type: none"><li>- Didn't want to be a guinea pig (n=1)</li><li>- Internet research and thinks it's just another thing we are trying that doesn't work based on what he read (n=1)</li><li>- Patient does not believe in COVID and that it causes pneumonia and does not think it was cause for admission (n=1)</li><li>- Don't want to risk getting worse (n=1)</li><li>- Doesn't like needles (n=1)</li></ul> <b>External factors</b> <ul style="list-style-type: none"><li>- Risk of getting more medication (n=2)</li><li>- Risks of study drug (n=13)</li><li>- It is experimental and don't know if it works (n=9)</li><li>- Been in too many research trials (n=1)</li></ul>
<b>Competing priorities /External influences and stressors</b> 	<b>Patient factors</b> <ul style="list-style-type: none"><li>- Worried about wife, who was admitted to hospital with COVID (n=1)</li><li>- Brother died of COVID 2 weeks prior and too overwhelmed to participate (n=1)</li><li>- A lot going on and very stressed and doesn't want another variable to that stress (n=3)</li><li>- Already enrolled in two other trials (n=1)</li></ul>
<b>Clinician/Relative recommendation</b> 	<b>External factors</b> <ul style="list-style-type: none"><li>- Patient/MD satisfied with current treatment plan (n=27)</li><li>- ID physician recommended not to participate (n=1)</li><li>- Family member against patient's participation (n=6)</li><li>- Doctor told him that he was doing better and he did not need to participate (n=1)</li><li>- Daughter felt trial would be too much (n=1)</li></ul>
<b>Comorbidities/ Concern about impact of study drug by treating physicians/ MD satisfied with current treatment plan</b> 	<b>Patient factors</b> <ul style="list-style-type: none"><li>- Schizophrenia with history of psychiatric decompensations (n=2)</li><li>- Recent aspiration pneumonia (n=1)</li><li>- History of coccidioidomycosis (n=1)</li><li>- History of psychosis (n=3)</li><li>- Concern about kidney issues (n=1)</li><li>- Advanced age (n=2)</li><li>- Admitted for stroke (n=1)</li></ul> <b>External factors</b> <ul style="list-style-type: none"><li>- Per infectious diseases, patient has sepsis/open wound (n=1)</li><li>- On medications for previous kidney transplant, physician determined not a good idea (n=1)</li></ul>

## RESULTS

**Impact on enrollment rates by treatment availability and study period**

**Period 1** (<dexamethasone)  
enrollment rate = 10/11 (91%)

**Period 2 and 3** (after IL-6 receptor inhibition was recommended against)  
enrollment rate = 43/144 (30%),  
p-value <0.0001



**Table 2: Comparison of patients who opted to enroll versus declined to enroll**

VARIABLE	SCREENED (N=417)	ELIGIBLE (N=155)	ENROLLED (%) (N=53)	DECLINED TO ENROLL (%) (N=102)	P-VALUE*
<b>SITE</b>					0.220
Site 1	11	10	4 (40%)	6 (60%)	
Site 2	13	8	8 (100%)	0	
Site 3	235	75	26 (35%)	49 (65%)	
Site 4	114	42	14 (33%)	28 (67%)	
Site 5	44	20	1 (5%)	19 (95%)	
<b>STUDY PERIOD</b>					<0.0001
Period 1 Before Dexamethasone <6/25/2020		11	10 (91%)	1 (9%)	
Period 2 & 3 After IL-6 receptor inhibition recommended against 6/25/2020-3/5/2021		144	43 (30%)	101 (70%)	

## CONCLUSIONS

**INCREASING ENROLLMENT INTO COVID-19 THERAPEUTIC TRIALS IS HIGH PRIORITY.**

Understanding the reason and attitudes behind declining to enroll may help investigators address them and increase enrollment and retention rates in the future.



SCAN ME



@VA\_CHOIR



VA U.S. Department of Veterans Affairs