BACC Bay Toci	lizumab – Stone, JH;	et al. <i>NEJM</i> 2020 (Published: Oct 21, 2	2020)
Study Design	Multicenter, double-blind, placebo, RCT – Severe COVID-19 – (2:1)		
Location	USA (Boston) – 7 hospitals		
Inclusion	Severe COVID-19 pneumonia + hyperinflammatory states #, and at least two signs (fever, pulmonary infiltrates, or need for $O_2$ to keep $SpO_2 > 92\%$		
Exclusion	If O <sub>2</sub> requirement >10L/min		
Intervention	Tocilizumab 8 mg/kg IV (up to 800 mg)		
Control	Placebo		
Drimon, Outoe	***	Tocilizumab n=161	Control n=81
Primary Outcor		17 (10 69/)	10 (12 59/ )

Primary Outcomes				
Death/Need MV at day 28	17 (10.6%)	10 (12.5%)		
Clinical worsening at day 28 **	31 (19.3%)	14 (17.4%)		
MV or death at day 14	10%	10%		
MV at day 14	7%	10%		
MV at day 28	7%	10%		
Death at day 14	4%	1%		
Death at day 28	6%	4%		

## Comments:

# CRP >50 mg/L; Ferritin > 500 ng/mL; D-dimer > 1000 ng/mL; LDH >250 U per L

Corticosteroid treatment occurred in 11% in the toci arm and 6% in the control arm.

## Abbreviations:

MV, mechanical ventilation; O<sub>2</sub>, oxygen; RCT, randomized controlled trial

<sup>\*\*</sup> Clinical worsening defined on the basis of a 7-level ordinal improvement scale.