



# COVID-19 Core Outcomes Set Project

**Core outcomes for people with suspected or confirmed COVID-19**

**Cochrane Webinar  
Thursday 11<sup>th</sup> June**

**CONFIDENTIAL**

[www.covid-19-cos.org](http://www.covid-19-cos.org)





# COVID-19-COS Steering Committee and Investigators

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*“Most researchers are focussed on the viral load but what matters most to patients may not **just** be viral load.”*



# Process: outcome domains

## PHASE 1

Systematic review

## PHASE 2

International Delphi survey

## PHASE 3

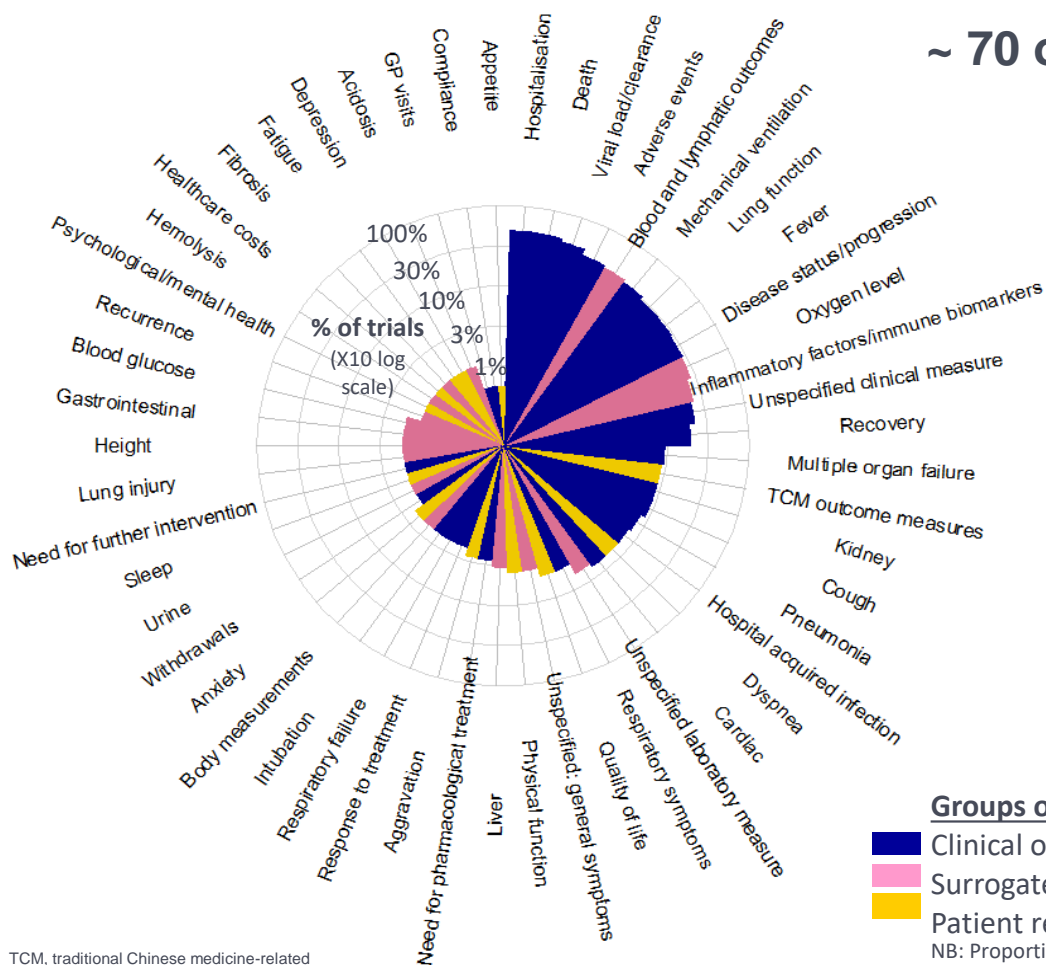
4 consensus workshops

## STEP 2: MEASURES





## ~ 70 outcome domains reported across 182 trials in COVID-19



Outcome	N (%)
Hospitalisation	89 (48.9)
Death	88 (48.3)
Viral load/clearance	81 (44.5)
Adverse events	67 (36.8)
Haematological (blood)	64 (35.1)
Mechanical ventilation	60 (32.9)
<i>Cough</i>	16 (8.8)
<i>Dyspnea (shortness of breath)</i>	12 (6.6)

### Groups of outcome:

- Clinical outcomes
- Surrogate outcomes
- Patient reported outcomes

NB: Proportion are expressed in a x10 log scale to display proportion <1%



## Participants

Group	English	Chinese	Italian	Spanish	Portuguese	TOTAL
People with suspected/ confirmed COVID-19 & family members	584	49	59	47	37	776
Health professionals	3004	1075	253	298	252	4882
Public	2339	356	362	307	267	3631
Total	5927	1480	674	652	556	9289

9289

111 countries

20<sup>th</sup> April 2020

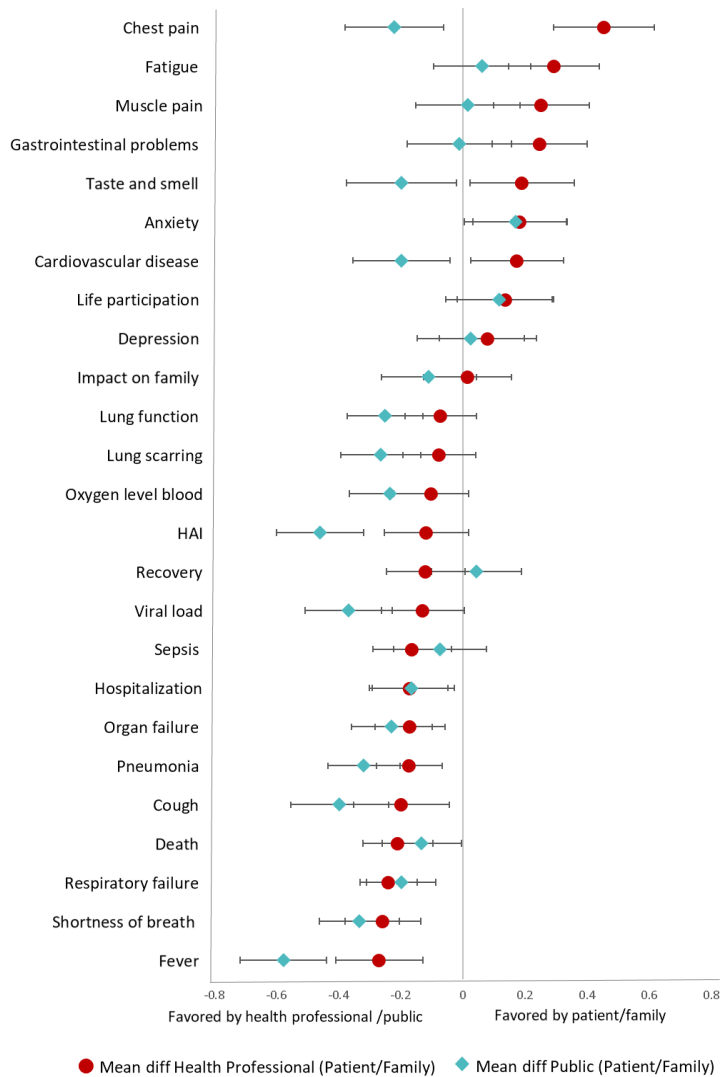


In all groups: mean  $\geq 7.5$ , median  $\geq 8$ , proportion rating as critically important  $\geq 75\%$

OUTCOME	Patients/caregivers n=776			Health Professionals n=4,882			Public n=3,631		
	Mean	Median	%	Mean	Median	%	Mean	Median	%
Death	1	9.0	81	1	9.0	87	1	9.0	82
Respiratory failure	2	9.0	86	2	9.0	92	2	9.0	89
Pneumonia	3	9.0	83	3	9.0	87	3	9.0	87
Organ failure	4	9.0	81	4	9.0	85	5	9.0	83
Lung function	5	8.0	81	5	8.0	83	4	9.0	84
Lung scarring (fibrosis)	6	8.0	77	8	8.0	81	7	9.0	81
Sepsis / septic shock	7	9.0	77	7	9.0	80	10	9.0	74
Shortness of breath	8	8.0	77	6	9.0	81	6	9.0	81
Oxygen level in the blood	9	8.0	76	10	8.0	80	8	8.0	79
Hospitalisation	10	8.0	75	9	8.0	80	7.7	8.0	76

20<sup>th</sup> April 2020

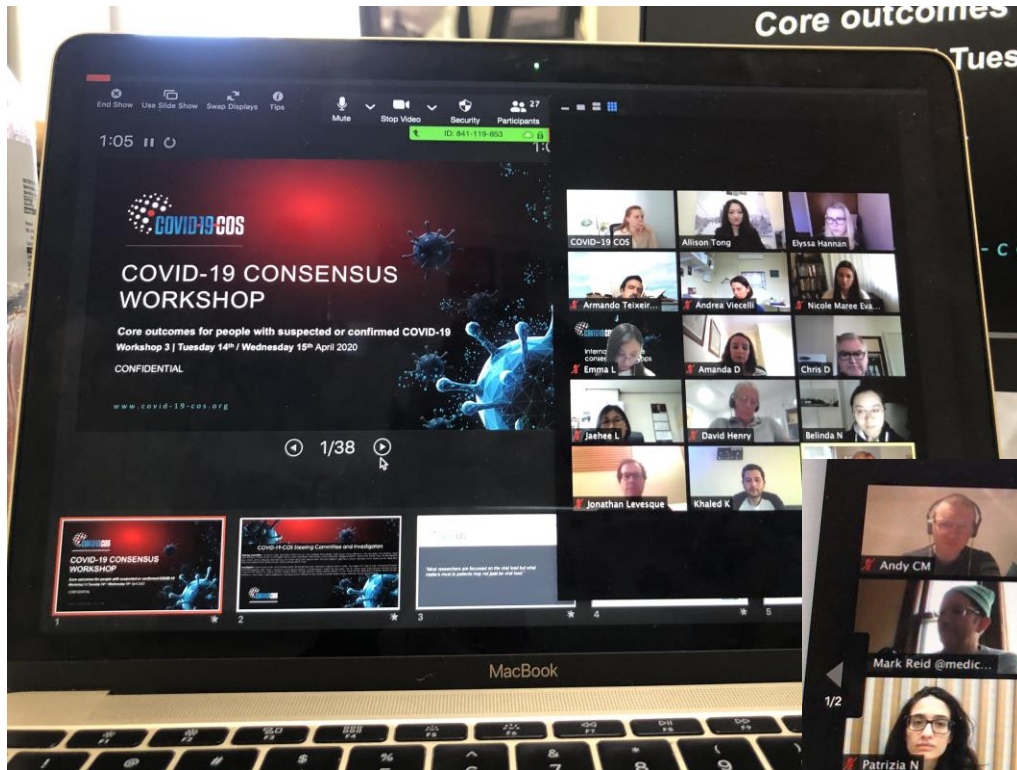




Patients/family members gave higher priority to many patient-reported outcomes compared with health professionals.

The high prioritization of impact on family, depression and anxiety reflected angst about isolation and profound guilt of infecting others.





14-15<sup>th</sup> April 2020

95 attendees  
21 countries





**Capturing  
different care  
environments**

**Responding  
to the  
immediate  
crisis**

**Encompassing  
the spectrum of  
disease severity  
and trajectory**

*"I was in the hospital briefly, but not hospitalized per se. Multi-organ failure and sepsis weren't an issue for me, but the shortness of breath, the breathing issues."*  
– patient

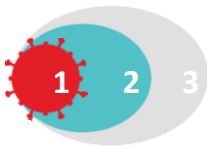
events

*"It's about ability to function afterwards. What is worrying me now is post viral fatigue and recovery, because it's been a very long time since I've spent two weeks in bed, and I'm showing no signs of being strong enough to even function in the house, never mind go back to work. That's what's concerning me about a long-term recovery is that kind of post viral thing."* – patient

wellbeing



# COVID-19-COS OUTCOMES



## 1 | CORE OUTCOMES

Critically important to all stakeholder groups  
Report in all trials

## 2 | TIER 2

Critically important to some stakeholder groups  
Consider for most trials

## 3 | TIER 3

Important to some or all stakeholder groups  
Consider for some trials

