

COVID-19

Response: D-dimer Triage for COVID-19

A related article appears on page 930.

In Reply:

We thank Dr Al-Najar and colleagues for their letter.¹ Our research letter² from work completed early April 2020 is intended to rapidly communicate our finding of 93% 28-day survival (95% CI = 92% to 95%) for a normal D-dimer on admission and 98% survival (95% CI = 96% to 99%) for a normal D-dimer 2 days later. Because we reported on 749 patients, those estimates had high precision. We chose death as a hard relevant outcome, rather than severity. A total of 100% of patients had criterion standard PCR RNA positivity.

D-dimers are most useful when normal, as with venous thromboembolism evaluation. McGill's Emergency Department may not see the onslaught of COVID-19 suspects coupled with delayed and limited COVID-19 PCR result availability that plagues so many other hospitals and patients. We suggested that an elevated D-dimer could aid in diagnosing serious COVID-19 for the latter. Regarding reporting outcomes other than death and D-dimer, another manuscript has been under review elsewhere. Regarding a 2 × 2 table for PCR-positive patients, the data are already in our research letter but require facility with subtraction: with a normal D-dimer in 586 of 671 survivors, subtraction shows that it was elevated in 85, and with an elevated D-dimer in 36 of 78 nonsurvivors, subtraction shows that it was normal in 42. The Day 3 results are similarly already presented.

Our findings are for triage. They are not the last word. Replicating findings is always important but wrenching numbers of unattended deaths and morbidity and mortality of our fellow health care workers led us to urgently submit these transparent data and suggest how to use them. We disagree that doing so is "far too bold."

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Supervising Editor: John H. Burton, MD

References

1. Al-Najar E, Alrumaih F, Arab D, Drouin AS, Gosselin S, Sawa J. D-dimer and presumptive diagnosis of COVID-19. *Acad Emerg Med* 2020;27.
2. Li C, Hu B, Zhang Z et al D-dimer triage for COVID-19. *Acad Emerg Med* 2020;27.