LETTER

Implications for COVID-19 triage from the ICNARC report of 2204 COVID-19 cases managed in UK adult intensive care units

On 4 April 2020, the Intensive Care National Audit and Research Centre (ICNARC) reported data from 286 adult intensive care units (AICUs) across England, Wales and Northern Ireland.1 Of 2204 patients admitted with COVID-19, 1524/2204 (69%) remained on AICU, 340 (15.4%) had been discharged and 340 (15.4%) had died.1 These survival rates emphasise the crucial importance of intensive/critical care support for patients most severely affected by COVID-19.

The 2204 COVID-19 cases were compared with 4759 patients with non COVID-19 viral pneumonia admitted to the same AICUs in the previous 3 years.1 The striking difference was that prior to their respective illnesses, the COVID-19 cohort was significantly healthier, with much lower disease burdens in the preceding 6 months (figure 1).

While it is theoretically possible that all critically ill patients with COVID-19 were genuinely healthier, the total COVID-19 death figures of 3939 in the UK by the same date indicate more than 10 times as many were dying without accessing AICU. This drew our attention to AICU COVID-19 triage which, in the UK, has generally occurred on arrival in hospital, via algorithm guidance. Many proposals were available early in the pandemic, and UK hospital Trusts implemented local policies aiming to avoid overburdening AICUs as a time of unprecedented demand.2

While some triage documents are very reasonable,4 content has varied. For example, one COVID-19 decision support tool that was circulating in March 2020 (no longer available online) suggested adding points scored across four elements: age (extra points for each 5-year increments above 50 years), the 9-point Clinical Frailty Scale, comorbidities (a point each) and male sex. Implementation of such tools could prevent healthy, independent individuals from having an opportunity to benefit from AICU review/admission by protocolised counting of variables that do not predict whether they would personally benefit from AICU care. The European Very elderly Intensive Patient 2 study recently reported that the Clinical Frailty Scale was more important than age alone in models of 30-day mortality in 3920 AICU-admitted patients aged 80–104 years.5 Additionally, the extremely common states of diabetes, hypertension and male sex indicate patients requiring extra care, rather than less.

Vulnerable groups become a self-fulfilling prophecy when implemented in triage decisions. From the 4 April 2020 ICNARC report,1 UK total deaths6 and continuing AICU bed availability,2 we conclude that current triage criteria are overly restrictive and suggest review. COVID-19 admissions to critical care should be guided by clinical needs regardless of age.

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REFERENCES