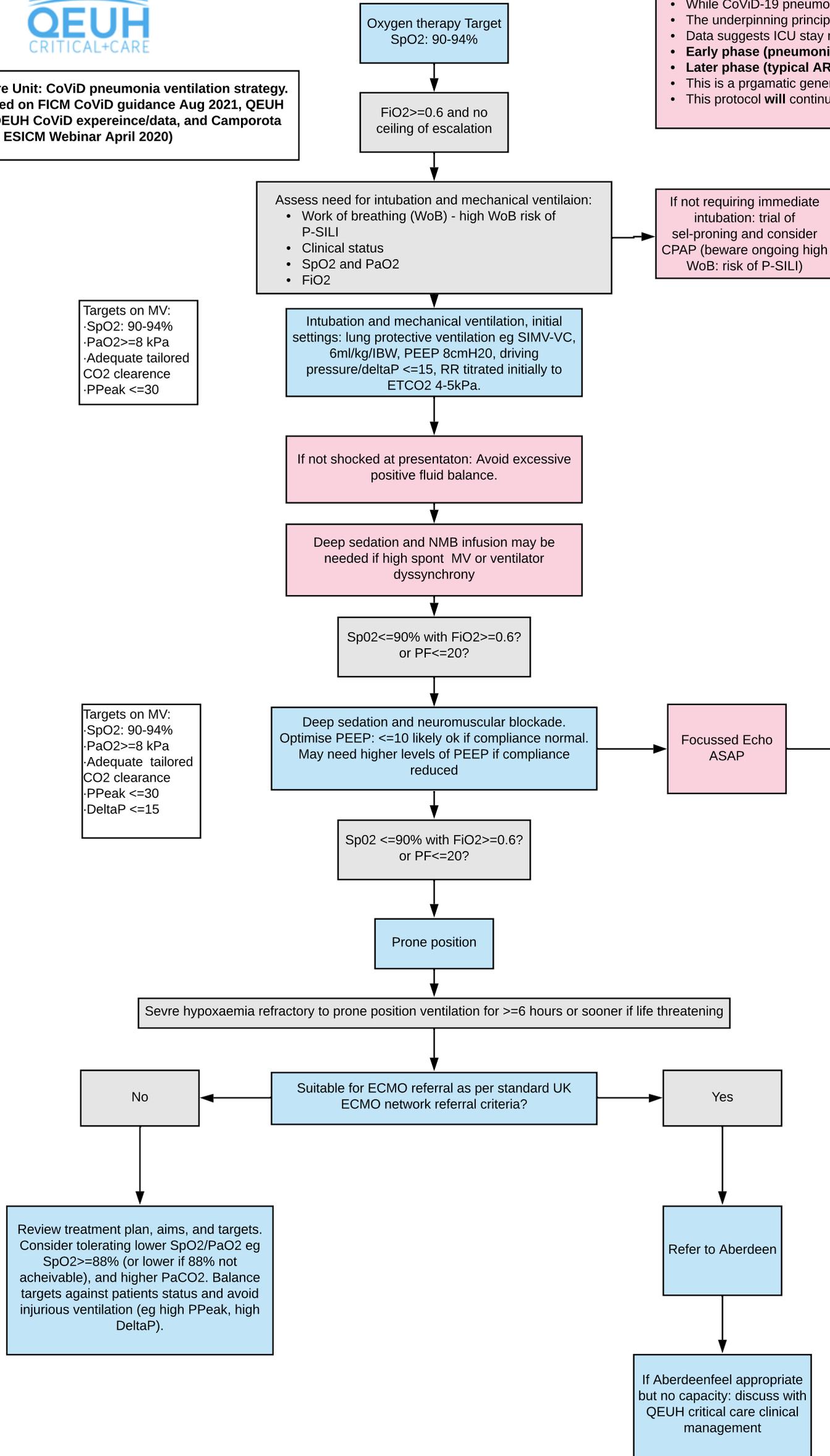


General principles:

- While CoViD-19 pneumonia can lead to ARDS, there may be some differences in early stages of the disease
- The underpinning principle of ventilatory management is lung protective ventilation
- Data suggests ICU stay may be several weeks – **be patient**
- **Early phase (pneumonitis):** Compliance normal, recruitment manoeuvres unlikely to be beneficial
- **Later phase (typical ARDS) phase:** Compliance is low and recruitment may be beneficial
- This is a pragmatic general guide - individual patients will vary and tailored management will be required
- This protocol **will** continue to change as experience/data emerges



Targets on MV:

- SpO2: 90-94%
- PaO2 >= 8 kPa
- Adequate tailored CO2 clearance
- PPeak <= 30

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- SpO2: 90-94%
- PaO2 >= 8 kPa
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- PPeak <= 30
- DeltaP <= 15

Fluid strategy:

- Early phase with normal compliance: likely to need some fluid resuscitation, avoid excessively positive fluid balance, consider CO monitoring
- Late phase with poor compliance: Conventional ARDS like conservative (neutral to negative) fluid balance)

Cardiovascular deterioration, consider:

- Heart-lung-ventilator interactions eg PEEP and RV dysfunction
- RV dysfunction
- Myocarditis
- Thrombotic episode – PTE, MI
- New bacterial infection/sepsis

Deterioration or failure to wean from mechanical ventiatory support

(1) Screen for treatbale complications eg VTE, co-infection, cardiac, and inflammatory complications:

- Echo
- Consider CTPA/CT Head
- Culture all sites and review lines
- Clect prococalcitonin, galactomannan and beta-d glucan
- Check ferritin, LDH, review for cytopenias (consider HLH)
- Review ventilation and minimise risk of VILI

(2) Consider discussion at daily ICU/Resp/ID MDT in cases of diagnostic or therapeutic uncertainty

Note: ICU stay for CoViD19 survivors may be prolonged. Requirement for significant ventilatory support and weaning phase may also be prolonged but can be associated with good outcome.

COVID-19 CLINICAL GUIDELINE

Note: This guideline has been fast-tracked for approval for use within NMSGGC

Covid-19 QEUH Critical Care Unit Covid pneumonia ventilation strategy

A guideline is intended to assist healthcare professionals in the choice of disease-specific treatments.

Clinical judgement should be exercised on the applicability of any guideline, influenced by individual patient characteristics. Clinicians should be mindful of the potential for harmful polypharmacy and increased susceptibility to adverse drug reactions in patients with multiple morbidities or frailty.

If, after discussion with the patient or carer, there are good reasons for not following a guideline, it is good practice to record these and communicate them to others involved in the care of the patient.

Version Number:	3.0
Does this version include changes to clinical advice:	Yes
Date Approved:	5h October 2021
Approval Group:	NMSGGC Covid-19 Tactical Group (Acute)

Important Note:

The Intranet version of this document is the only version that is maintained. Any printed copies should therefore be viewed as 'Uncontrolled' and as such, may not necessarily contain the latest updates and amendments.