Novel coronavirus (COVID-19) standard operating procedure:

COVID virtual ward

This guidance is correct at the time of publishing. However, as it is subject to updates, please use the hyperlinks to confirm the information you are disseminating to the public is accurate.
1.1 Recommendation

All areas should pursue immediate roll out of a COVID ‘virtual ward’ model as an option for clinicians to admit to for earlier safe and supported discharge if this model is not in place already. Implementation should be led by the local integrated care system (ICS) and delivered by appropriate secondary care providers, with potential additional support from community health services.

This is separate but complementary to COVID Oximetry @home (CO@h). Key differences between these pathways are set out in the table below.

<table>
<thead>
<tr>
<th></th>
<th>COVID Oximetry @home</th>
<th>COVID virtual ward</th>
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<td><strong>WHERE</strong></td>
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<td>Safe admission avoidance and self escalation</td>
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This document sets out a base standard and should not supplant existing arrangements where these are already established and working.

1.2 Entry criteria

The COVID virtual ward (CVW) model should be available as an option for clinicians for adults in hospital with a primary diagnosis of COVID-19 who have an improving clinical trajectory (symptoms, function, oxygen saturation) and have no fever for 48 hours consecutively (without medication to reduce fever). Consideration may also be given to patients who are seen in secondary care or by ambulance clinicians where emergency admission is not warranted, but urgent oximetry follow-up is required.
See Section 1.4 for guidance on oxygen saturations and other clinical considerations.

1.3 Staffing and oversight

The default assumption is that the model is primarily implemented at system level by one or more acute trusts.

Legal responsibility, including ensuring appropriate clinical governance, remains with the relevant provider. Each system should have a named person responsible for the establishment of the service in their area. Clinical, governance and administrative responsibilities included in the pathway can be provided by any appropriately trained person and best use of resources should be made, including using shielding staff.

Providing a safe and robust CVW requires staffing for at least 12 hours a day (8am–8pm) seven days a week with locally arranged provision of out of hours cover. When discharged on to a CVW, patients are given a hospital number to call for any advice or support required during these hours which is provided by any healthcare support worker. These staff are clinically supervised by an experienced clinically registered professional who is also responsible for making the proactive daily calls, i.e. virtual ward round.

The CVW is led by a named consultant or ST3+ doctor with relevant COVID experience (usually an acute or respiratory physician).

Patients should be advised to self-isolate in line with current guidance.

1.4 Patient journey

Hospital discharge assessment (Stage 1)

Subject to completion of a satisfactory exercise test:

- Patients with saturations of 95-100% and low NEWS2 (< 3) and improving clinical trajectories can be discharged to a COVID virtual ward where clinically appropriate.

- Patients with saturations of 93-94% with improving clinical trajectories (symptoms, signs, blood results, CXRs), function can also be considered for COVID virtual ward where clinically appropriate.
• Patients with oxygen saturations of 92% or lower or experiencing moderate/severe shortness of breath are **generally unsuitable** for early supported discharge, unless the patient is stable and this is their usual baseline saturation.

Clinical judgement remains paramount for all assessments particularly for COVID patients with higher risk factors or other complicating medical conditions.

**Onboarding to COVID virtual ward (Stage 2)**

• Patients being onboarded onto the COVID Virtual Ward will agree a discharge / escalation plan including monitoring arrangements and be given as a minimum a patient information leaflet, oximeter, instructions and diary.

• Patients are given a hospital number to call for any advice or support between 8am to 8pm, seven days a week.

• Patients discharged onto the CVW are loaned an oximeter and given information about how they will be monitored and who to call if they need help or support as part of the onboarding process as they leave hospital. The onboarding process should therefore include provision of a patient held escalation plan that should assist remote assessment by 111/999/CVW team and help reduce inappropriate readmissions.

**Monitoring on COVID virtual wards (stage 3)**

• Patient takes three readings each day with oximeter and enters reading in diary and asked to call the hospital number provided immediately if reading less than 92%. If this is not possible, they should attend their nearest emergency department within an hour or call 999.

• Patient proactively contacted by phone everyday as they would be for a hospital-based ward round.

• At 14 days (or before if deemed clinically appropriate) proceed to stage 4.

**Recovery and discharge (stage 4)**

• The patient’s general practice should be informed and their health record updated accordingly.
• Patients may be on the pathway for a shorter period subject to clinical review.

• Patients who remain symptomatic at 14 days should receive a further clinical assessment and action taken as clinically appropriate.

• At the end of this stage, a friend or family member, or an NHS Volunteer Responder, collects and returns the oximeter for decontamination and reuse, as agreed as part of the onboarding conversation.

1.5 Oximeter supply and safe re-use


Particular care needs to be given to ensuring reliable arrangements are in place to provide oximeters to patients on discharge, and their subsequent decontamination and reuse.

A supply of pulse oximeters is available to acute trusts for COVID virtual ward models based on national modelling assumptions of case demand using the entry criteria in section 1.2 above.

Acute trusts can request suitable oximeters in batches of 100, to be stored locally as appropriate for anticipated demand. Oximeters can be requested by emailing england.home@nhs.net. Once the order is agreed, delivery to the requesting acute trust will normally be made within three working days.

Prior to being distributed to patients, and on return from them, oximeters must be decontaminated in line with infection control policies for reusable electronic equipment. They must be checked that they are functional and safe for re-use prior to being allocated to new patients. This should be done in line with local and national guidance for reusable electronic clinical monitoring equipment.

It is important to note that systems must ensure there are wholly reliable local arrangements in place for timely distribution, decontamination, and re-use of sufficient oximeters.

Oximeters must be available on discharge.
1.6 Coding, record keeping and data requirements

Systems will be requested to provide to NHS Digital routine information on caseload, length of stay and details of discharge medication and oxygen therapy where relevant. The model will be subject to ongoing evaluation and adaptation.

1.7 Further support

Details of further advice, guidance and training materials including Academic Health Science Networks (AHSNs) and Patient Safety Collaborative contacts for bespoke support are available on the NHS @home Future NHS platform: https://future.nhs.uk/NHSatH/grouphome.

If there are any issues accessing the site or for further queries, please email england.home@nhs.net.