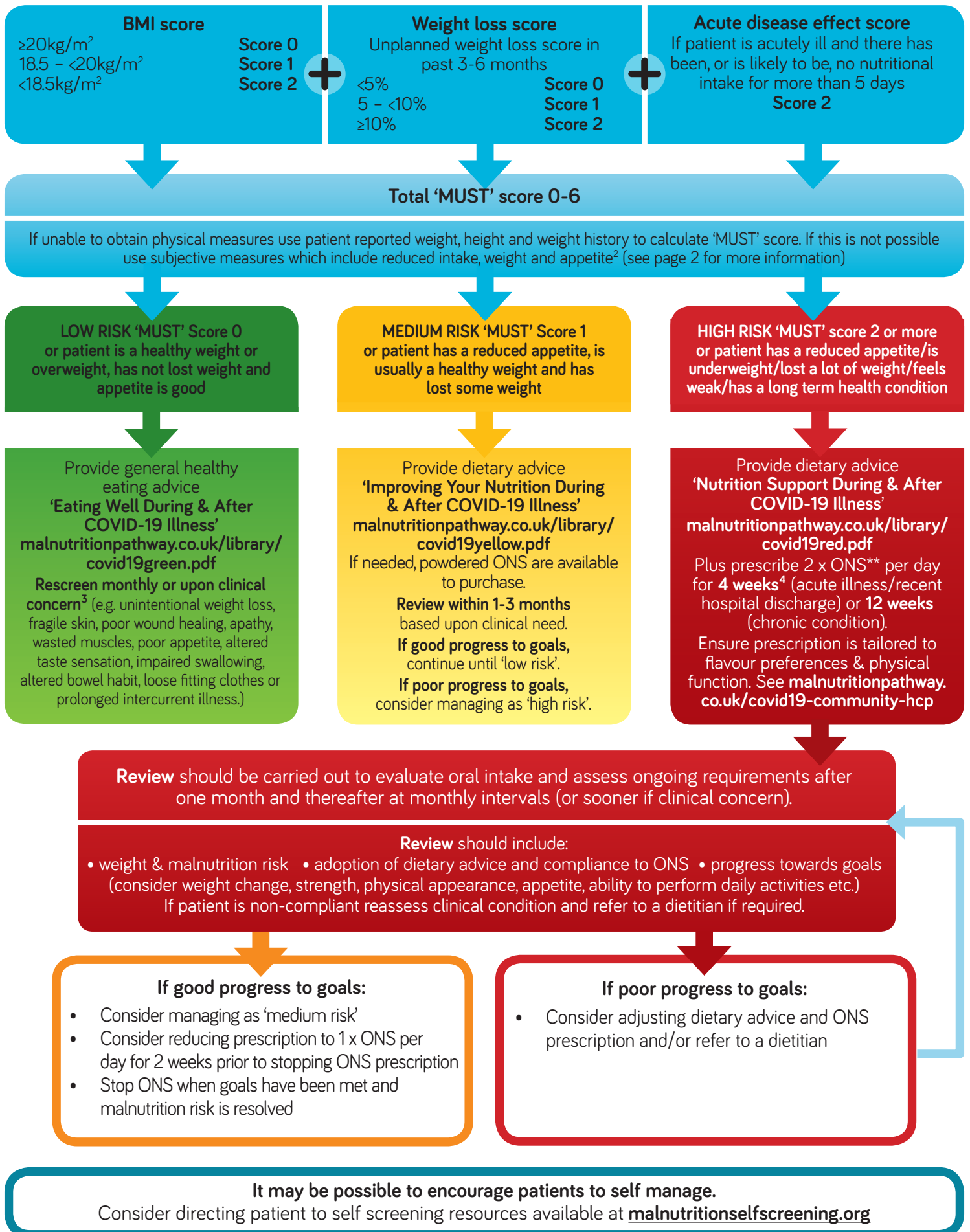


Malnutrition Pathway COVID-19 Illness

Community Nutrition Support Pathway using 'MUST'*1



Patient information sheets and a useful tool to enable individuals who have or have had COVID-19 to identify the nutritional advice leaflet that is most suitable to their needs can be found at malnutritionpathway.co.uk/covid19
 More detailed information on this fact sheet can be found at malnutritionpathway.co.uk/covid19-community-hcp

* The 'Malnutrition Universal Screening Tool' ('MUST') is used here with the kind permission of BAPEN (British Association of Parenteral and Enteral Nutrition).
 For more information see bapen.org.uk

**Patients with dyspnoea/breathlessness may benefit from a compact or low volume supplement

A Community Healthcare Professional Guide to the Nutritional Management of Patients During and After COVID-19 Illness

The severe symptoms and consequences of COVID-19 may exacerbate malnutrition already present but may also predispose a previously well-nourished patient to the risk of malnutrition as a result of elevated nutritional requirements associated with infection arising at a time when appetite is diminished⁴. The Malnutrition Pathway has collated expert consensus, best practice and available evidence to develop a pathway to support community healthcare professionals in identifying nutritional issues in patients who have or have had COVID-19 illness.

Malnutrition screening

Screening for malnutrition across all settings, including the community, in patients with and recovering from COVID-19, is key to maximise recovery from illness. Use of a validated screening tool such as the Malnutrition Universal Screening Tool ('MUST')¹ is recommended.

'MUST' is a 5 step tool encompassing the calculation of BMI Score (Step 1), Unintentional Weight Loss Score (Step 2) and Acute Disease Effect Score (Step 3) to calculate Overall Risk of Malnutrition (Step 4) and give Management Guidelines (Step 5).

During the COVID-19 pandemic, healthcare professionals have had to radically change their way of working, in many cases moving to remote consultations.

Identifying the risk of malnutrition usually relies on recording current weight, previous weight and height, to calculate body mass index (BMI) and percentage unintentional weight loss

For people in the community during the COVID-19 pandemic, if physical measures are not possible it is recommended²:

- To use patient reported values of current weight, height, and previous weight to calculate Step 1 and Step 2 of 'MUST'
- Where it is not possible to obtain physical or self-reported measures of height or weight there are a series of subjective criteria that can be used to form a clinical impression of an individual's malnutrition risk category (see subjective criteria below):

BMI

Clinical impression – thin, acceptable weight, overweight. Obvious wasting (very thin) and obesity (very overweight) can be noted

Unplanned weight loss (particularly relevant in patients with COVID-19)

- Clothes and / or jewellery have become loose fitting
- History of decreased food intake, reduced appetite and/or dysphagia (swallowing problems) over 3-6 months, underlying disease or psycho-social/physical disabilities likely to cause weight loss.
- COVID-19 infection is very likely to cause unplanned weight loss if food intake is reduced by the effects of the disease and its management e.g. anorexia, breathlessness, impact of management options (sedation, continuous positive airway pressure (CPAP)/non-invasive ventilation (NIV), changes to taste and smell, psychological factors (e.g. anxiety), social restrictions

Acute disease

- If a patient is acutely ill with COVID-19 and is unlikely to have no nutritional intake for more than 5 days or has had no nutritional intake for more than 5 days.

Use the combination of subjective criteria to estimate a malnutrition risk category (low, medium or high) based on your overall evaluation.

The following questions can assist in obtaining information to form this clinical impression and help you select the most appropriate dietary advice resources on this website:

- How is your appetite lately? How are you managing with your eating and drinking?
- How would you describe your weight? What is a usual weight for you?
- Do you feel like your weight has changed in the last few weeks or months?
- How are your clothes and jewellery fitting? Do they feel like they fit differently to usual?

Dietary considerations

Patients with COVID-19 may struggle to meet their nutritional requirements due to the presence of some or all of the nutritional challenges that can affect dietary intake. A range of strategies including dietary advice and oral nutritional supplements may need to be considered to provide adequate nutrition support to people during and after COVID-19 illness.

Goal setting & monitoring

Patient centred goals should be discussed and agreed, including what matters to the patient⁵, for those patients offered oral nutrition support.

Patients receiving any form of oral nutrition support should be regularly reviewed against goals set and agreed to assess progress and understand if any nutrition support strategies can be stopped or need starting.

In the case of COVID-19 patients the interval should be based on clinical judgement taking into account severity of disease and malnutrition; this would normally be monthly but might range from a 1-week interval to 3 months depending on symptoms.

References

1. The 'MUST' report. Nutritional screening for adults: a multidisciplinary responsibility. Elia M, editor. 2003. Redditch, UK, BAPEN. <https://www.bapen.org.uk/pdfs/must/must-report.pdf>
2. British Association of Parenteral and Enteral Nutrition (BAPEN). Practical guidance for using 'MUST' to identify malnutrition during the COVID-19 pandemic : Malnutrition Action Group (MAG) update. May 2020 <https://www.bapen.org.uk/pdfs/covid-19/covid-mag-update-may-2020.pdf>
3. National Institute of Health and Care Excellence (NICE). Nutrition support in adults: oral nutrition support, enteral tube feeding and parenteral nutrition. Clinical Guideline 32. 2006. <https://www.nice.org.uk/guidance/cg32>
4. Barazzoni R, Bischoff SC, Krznaric Z, Pirlich M, Singer P, endorsed by the ESPEN Council, Espen expert statements and practical guidance for nutritional management of individuals with sars-cov-2 infection, Clinical Nutrition. 2020. <https://doi.org/10.1016/j.clnu.2020.03.022>
5. NHS England. Universal Personalised Care. Implementing the Comprehensive Model. 2019 <https://www.england.nhs.uk/wp-content/uploads/2019/01/universal-personalised-care.pdf>

This information in this leaflet is derived from the Managing Malnutrition in COPD and Managing Malnutrition in the Community patient materials, taking into account what we know about the nutritional management of patients with COVID-19 at the time of development (May 2020). It is intended for adults (not children) and does not include advice on enteral tube feeding (see <https://www.bda.uk.com/resource/top-tips-for-prescribing-oral-nutritional-supplements-and-enteral-feeds-in-the-community-for-adults-and-paediatrics.html> for further information on this). It should not replace individual advice from a qualified Dietitian (check in patients' medical record).