

#### KEY MESSAGE FROM THE GGC RESPIRATORY MCN AND THE RESPIRATORY NATIONAL ADVISORY GROUP APRIL 2020

# Definitions of Patients at High Risk of COVID-19 infection, for shielding

The guidance for patients who should shield, that is carry out extreme isolation, during the COVID-19 pandemic has led to some confusion for patients and HSCPs across Scotland as some patients have received letters from UK Gov, and others have not. Guidance from some specialist societies has contradicted others, particularly in respect to immunosuppressive drugs.

A larger issue has been the variable definition of severe asthma and who with asthma is in the very high risk category. Patients with bronchiectasis have, in the main, been missed from initial screens of patients at risk. There has not been clarity over patients with ILD and sarcoidosis.

The clinical cell met with representatives from the respiratory community on 15<sup>th</sup> April, following discussions with the respiratory community, to agree guidance for who is at particularly high risk, and therefore should 'shield'.

We have divided this advice into patients who are in the Group 3 and 4 categories and those in the Group 7 category

### Group 3

#### **Cystic Fibrosis**

These patients have been contacted by regional CF centres already.

### Severe Asthma

The definition of severe asthma varies. The suggested definition for use in Scotland is:

- Patients taking a biologic therapy (omalizumab, mepolizumab, benralizumab, dupilumab)
- Patients taking three times a week azithromycin
- Patients taking long term steroids at a dose of more than 10mg daily for more than 4 weeks
- · Patients taking a steroid sparing agent such as methotrexate, azathioprine, MMF
- Patients who have received 3 or more courses of oral steroid in the preceding year

Patients with severe asthma should be contacted to consider shielding.

#### Severe COPD

Many patients with COPD have already been contacted. Patients with severe COPD who should be considered for shielding.

- Patients with COPD and co-existent bronchiectasis
- Patients who are too breathless to walk 100 yards
- Patients on Long Term Oxygen Therapy (these patients have been contacted already)
- Patients on long term non-invasive ventilation for type 2 respiratory failure
- Patients in group D of the GOLD classification
- Patients on an active transplant list
- Patients taking regular prophylactic oral antibiotics, usually a macrolide, but also daily doxycycline, co-trimoxazole, or penicillin

It should be noted that there are patients who make the definition of Group D due to being inappropriately on 'triple' therapy. There are also patients with co-exisitent asthma and COPD who take 'triple' therapy with moderate COPD. These issues should be considered when advising over the need to shield, which is a significant undertaking.

# Group 4 Interstitial Lung Disease

Patients with ILD should already have been contacted and advised to shield, along with patients on immunosuppression and on antifibrotic therapy. However some will not be in the highest risk category and do not require shielding.

We would recommend that the following ILD patients should be shielded:

- Patients with have a diagnosis of IPF/probable IPF/possible IPF/working diagnosis of IPF
- Patients that have any form of ILD that are in one or more of the following groups
- Deemed palliative
- On long term oxygen
- On antifibrotics (pirfenidone and nintedanib)
- On prednisolone >5mg/day
- On immunosuppressants (azathioprine, MMF, methotrexate, on cyclophosphamide in the last 6 months)

We would recommend that the following ILD patients do NOT require shielding:

• Patients with a historical diagnosis of ILD that are no longer on treatment for ILD and are not being followed up in secondary care

For ILD patients that do not fit into these categories, the appropriate consultant should be contacted for advice

# Sarcoidosis

Patients with sarcoidosis should already have been contacted directly and advised that they may have to shield. However many will not be in the highest risk category and do not require shielding.

We would recommend that the following patients should be shielded:

- Patients that have documented ongoing parenchymal lung disease (often referred to as stage 2,3 or 4 sarcoidosis) *and*
- are on oxygen and/or
- corticosteroids (any dose) and/or
- immunosuppression (including methotrexate)

We would recommend the following sarcoidosis patients do NOT require shielding:

- Patients with a historical diagnosis of sarcoidosis but are not an treatment and are not being followed up in secondary care
- Patients that have no documented parenchymal lung disease (often referred to as stage 0 or 1 sarcoidosis) and are not on corticosteroids equivalent to Prednisolone 20mg per day for 4 weeks or more OR corticosteroid equivalent of Prednisolone >=5mg/day for 4 weeks or more AND on other immunosuppressive therapy

For sarcoidosis patients that do not fit into these categories, the appropriate specialty consultant should be contacted for advice

# Group 7

# Bronchiectasis

Patients at highest risk of COVID are defined as:

- Patients taking regular prophylactic oral antibiotics, usually a macrolide, but also daily doxycycline, co-trimoxazole, or penicillin
- Patients taking regular prophylactic inhaled antibiotics, such as colomycin, tobramycin, gentamicin
- Patients colonised with pseudomonas aeruginosa
- Patients requiring 4 or more courses of antibiotics in a year

This group of patients will include patients with underlying immunodeficiencies picked up by other mechanisms, and also patients with primary and secondary ciliary dyskinesias.

Patients with other chronic lung infections (Pulmonary Tuberculosis, chronic fungal infection, Atypical Mycobcateria) on active treatment for these conditions should be shielded as well: if in doubt speak to your local respiratory team.

# **Patients Receiving Ventilatory Support**

Patients on domiciliary Non Invasive Ventilation for conditions such as MND should be considered high risk and advised to shield. This should include patients with COPD with are on home NIV. The speciality teams looking after these patients should already have contacted these patients and advised them to shield.

### **Pulmonary Hypertension**

These patients have been contacted by the SPVU

### **Primary Ciliary Dyskinesia**

There are small numbers of patients with PCD, with very variable disease. Refer to the severity markers for bronchiectasis.

## **Obstructive Sleep Apnoea Syndrome**

Patients with OSA do not need to shield (unless other co-morbidities that need shielded for: please check with the respective GP). Advice on when to continue or stop CPAP therapy can be found on the BTS COVID hub.

## **Rescue Pack Medication**

There has been a lot of interest in providing patients with airways disease with rescue packs of steroids and/or antibiotics.

Provision of steroid tablets to every patient with COPD will be a significant burden on pharmacy supplies. Options for COPD patients are:

- Ensure those patients who usually have at home supplies of rescue medications have them topped up
- Discuss the provision of rescue pack medication with patients who are on long term oxygen therapy, and/or a palliative care list
- Send all patients on COPD registers an advice letter on what to do if they develop symptoms of COVID-19 or a COPD exacerbation.
- Consider sending a pharmacy script to patients for prednisolone 5 day course, following a telephone consultation
- Identify patients at high risk of exacerbation and issue a rescue pack

Patients who require a short course of steroids for an acute asthma exacerbation should make contact with a health care professional for an assessment of severity, and appropriate therapy, which may be best delivered in secondary care. We therefore **do not** recommend the provision of rescue packs of steroids for patients with asthma **unless** they have them usually, for clearly stated indications (such as what is sometimes termed "brittle asthma" in patients who live remotely). Patients should however be advised to ensure that they have an up to date Personalised Asthma Action Plan

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