Name Date of birth Address	Appendix 5		Insert Trust Lo	ogo NHS			
	Ν	IIV Pre	scriptio	n			
District or NHSNumber	District or NHSNumber Identifying Patients who will benefit from NIV						
Acute hypercapnic respiratory failure (AHRF) is defined by a pO ₂ <8 kPa, pH <7.35 and pCO ₂ >6.5 kPa							
pH <7.25 and pCO₂ > 6.5 Consider immediate invasive ventilation Call ICU Date:	cute hypercapnic re ure on Initial ABG ? pCO ₂ pO ₂ spO ₂ FiO ₂	espiratory	Background evidence of pr no underlying disea Consider i invasive ventil	of asthma or neumonia and g Respiratory ase? mmediate ation. Call ICU			
	↓						
pH < 7.35 and pCO ₂ > 6.5 and history of COPD or bronchiectasis or chest wall deformity Or pH >7.35 and pCO ₂ > 6.5 with a background of neuromuscular disease or obesity Or Known or probable OHS/OSA daytime pCO ₂ > 6.0 and somnolent							
Patient has had maximal medical therapy for 1 l	hour?						
 Controlled oxygen therapy aiming O₂ sats 88 Antibiotics, nebulisers and steroids as indica Drugs discontinued as appropriate 	3-92%	Repeat ABG shows resolution of AHRF					
**1 in 5 patients improve on medical manage alone and avoid NIV	ement	Diagnosis					
Repeat ABG shows acute hypercapnic respirator pH pCO_2 pO_2 HC spO_2 FiO_2 Date: Time	Asthma? Isolated pneumonia without COPD/ bronchiectasis Acute pulmonary oedema Intubation & ventilation available/appropriate Guillian-Barre syndrome/Botulism						
•			•				
What is the diagnosis?			D/W ICU or cardiol	ogy			
 COPD (AHRF, not ITU candidate) Definite or possible OSA/OHS (AHRF and s Spine/chest wall deformity (acidotic AHRF) Neuromuscular disease (hypercapnia) 	omnolent)	CPAP is the optimal treatment for patients with isolated pulmonary oedema and AHRF					
•		Patient for NI	V?Y/N				
Contraindications? (see page 4)							
Y / N Name Signed		Time	Date				

oundation trust

Starting patients on NIV								
Call hot week Respiratory consultant be	tween 9-5 on we	eekdays with the following information: (Edit as required)						
 Arterial or capillary blood gas result taken GCS within the last 30 minutes 								
Recent CXR (taken during current adm	ission)	Smoking history						
 Recent inflammatory markers (taken du admission) 	iring current	 Assessment of Pre-morbid functional status: walking distance and MRC dyspnoea score 						
Previous spirometry								
If accepted or out of hours call on call Medical SpR (Edit as required)								
*								
	NIV	settings						
Starting pressures 12/5 Own domiciliary NIV settings //								
Target pressures 20/5 Other /								
Maximum IPAP should be titrated against tolerability. Patients with neuromuscular disease or frail patients may require lower IPAP.								
Signed Name		Time Date						
		*						
Escalation and Handover								
ITU candidate if NIV fails? Plan discussed with patient and/or relatives? NIV ceiling of care? AND completed Y / N								
Signed Name	d Name Time Date							
		↓						
Continue to increment pressures as tolerated and repeat ABG at 1 hr								
	рН	pCO ₂ pO ₂ HCO ₃ spO ₂						
•		FiO ₂ Date:Time:						
Repeat ABG shows improvement		\						
or resolution of AHRF?		Repeat ABG shows no improvement or deterioration?						
Continue current treatment and		Refer to seniors						
repeat ABG at 4 + 12 hrs		Check pressures/target SaO2						
\checkmark	 Check medical management prescribed Consider physiotherapy Check synchronisation/mask leak 							
Repeat ABG at 4 hr		Review NIV trouble shooting guide						
pH pCO ₂ pO ₂								
HCO ₃ spO ₂ FiO ₂		*						
Date: Time:	\rightarrow	Repeat ABG shows improvement or resolution of AHRF? Continue NIV as much as possible until Respiratory						
		review						

NIV Treatment Log

IPAP ____ EPAP ____

Location	Date	Time Commenced	Time finished	IPAP	EPAP	0 ₂	Total Time	Print Name	Sign Name
		(0 hr)							
		(1/2 hr)							
		(1 hr)							
		(2 hr)							
		(4 hr)							
		(8 hr)							
		(12 hr)							
		(18hr)							
		(24hr)							

Perform ABG at 1, 4, 12 and 24 hours after starting NIV to determine if the patient is improving