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 NIN						
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 pCO ₂ > 6.5 Consider immediate invasive ventilation Call ICU Date:_	evidence of pneumonia and no underlying Respiratory disease? Consider immediate						
	+						
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	hour?						
 Controlled oxygen therapy aiming O₂ sats 88 Antibiotics, nebulisers and steroids as indica Drugs discontinued as appropriate 	8-92%	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 pCO2 pO2 HC spO2 FiO2 Date: Tin	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 cardio	ogy			
 COPD (AHRF, not ITU candidate) Definite or possible OSA/OHS (AHRF and s Spine/chest wall deformity (acidotic AHRF) Neuromuscular disease (hypercapnia) 	somnolent)	CPAP is the optimal treatment for patients with isolated pulmonary oedema and AHRF					
		Patient for NI	IV?Y/N				
Contraindications? (see page 4)	Name Signed						
Y / N Name Signed			Date				
Acknowledgements: Sherwood Forest Hospitals NHS F							

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 take within the last 30 minutes 	en	• GCS						
Recent CXR (taken during current admission) Smoking history								
 Recent inflammatory markers (taken during current admission) Assessment of Pre-morbid functional status: walking distance and MRC dysphoea 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 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		Refer to ICU if appropriate 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								
HCO3 spO2 FiO2		₩						
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	02	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