Appendix 5 - Drug Response Assessment testing

DRUG RESPONSE ASSESSMENT TESTING PROFORMA

*****THE TEST WILL NOT BE UNDERTAKEN WITHOUT ALL SHADED AREAS COMPLETED****

APPROPRIATE PRESCRIPTION ATTACHED? ☐

PATIENT NAME: **DOB:** **HOSPITAL NO:** **PATIENT WEIGHT:**	**Inpatient/ Outpatient**
DATE OF REFERRAL: **REASON FOR REFERRAL:** **PRESCRIBER:** ***PRINT*:** …… ***SIGN*……..** **PRESCRIBER BLEEP/ EXT no. #** **CONSULTANT:**	**ALLERGIES**

Terminal clean required post-test? *(i.e. MRSA/ M. abscessus/B. cepacia)*: **YES / NO**

	Medicine	DOSE	Administered?	Initials for check
MEDICATION FOR TEST DOSE			YES NO	
Diluent (e.g. 0.9% saline for Colistin/Amikacin etc)				
PRE TEST BRONCHODILATOR ***(if part of patient usual regime)***			YES NO	
POST TEST BRONCHODILATOR ***(please circle/indicate dose)***	**Salbutamol NEB** **INHALER**	**……mg** **……puffs**	YES NO	

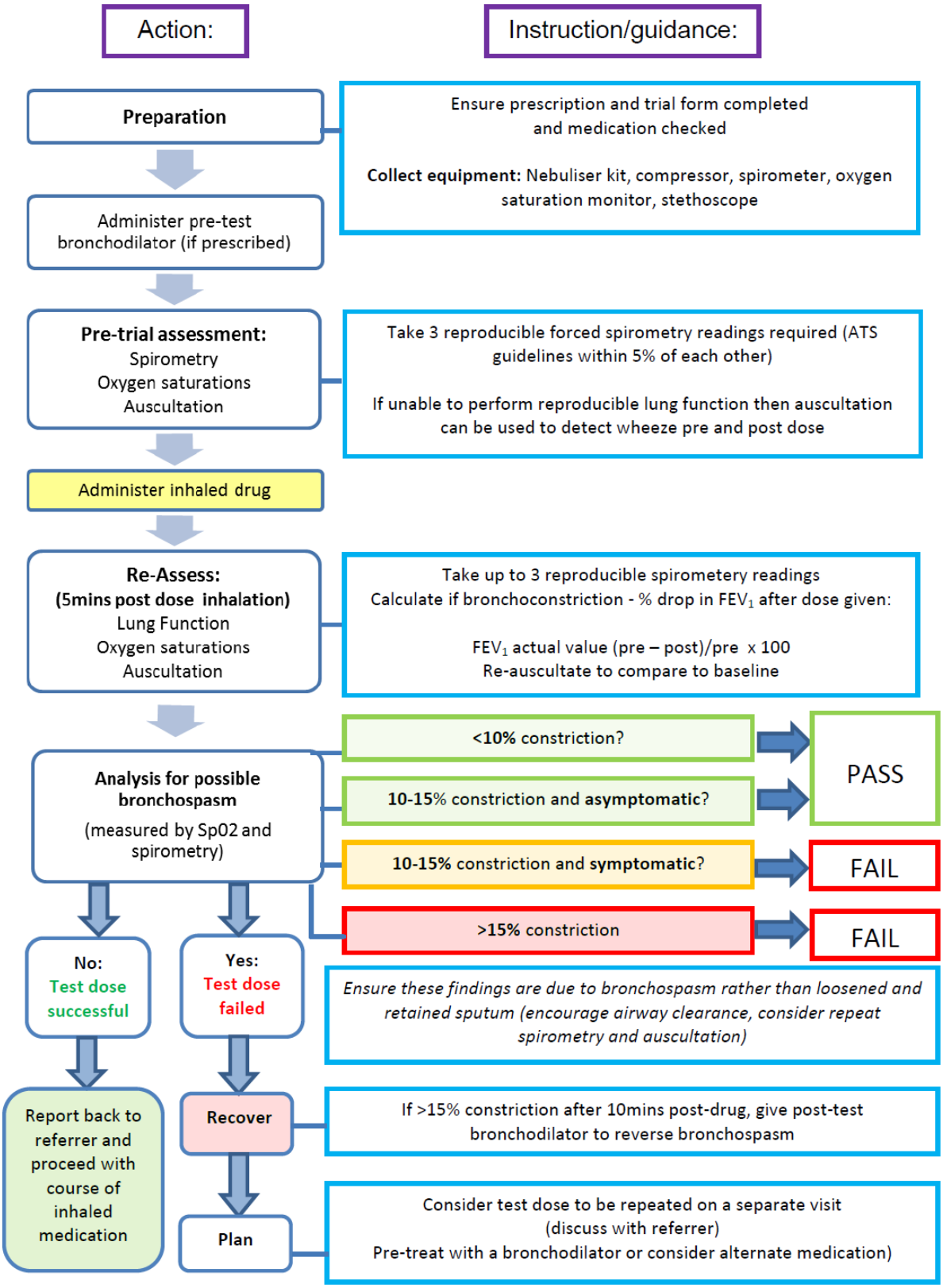
TO BE COMPLETED BY PHYSIOTHERAPIST:

DATE OF TRIAL…… **SPIROMETRY APPROPRIATE?: YES NO**
DEVICE USED? ……
TRIAL NOT COMPLETED? Why……

	FEV_1		Sp02	Other (e.g. ausc/HR)
PRE test	**L/min**	**% pred.**		
POST test	**L/min**	**% pred.**		
% change	*(see guidance attached)*			
Symptoms/ comments				
10 mins post ***(if needed)***	**L/min**	**% pred.**		
% change				
Symptoms/ comments				

Inhalation technique discussed (i.e. DPI)
Explained potential adverse events ☐ **Equipment explained/issued** ☐

Safe for Use: Yes / No Therapist signature_____ Date_____


Action:
Instruction/guidance:
Preparation
Ensure prescription and trial form completed and medication checked
Collect equipment: Nebuliser kit, compressor, spirometer, oxygen saturation monitor, stethoscope
Administer pre-test bronchodilator (if prescribed)
Pre-trial assessment:
Spirometry
Oxygen saturations
Auscultation
Take 3 reproducible forced spirometry readings required (ATS guidelines within 5% of each other)
If unable to perform reproducible lung function then auscultation can be used to detect wheeze pre and post dose
Administer inhaled drug
Re-Assess:
(5mins post dose inhalation)
Lung Function
Oxygen saturations
Auscultation
Take up to 3 reproducible spirometery readings
Calculate if bronchoconstriction - % drop in FEV1 after dose given:
FEV1 actual value (pre – post)/pre x 100
Re-auscultate to compare to baseline
Analysis for possible bronchospasm
(measured by Sp02 and spirometry)
<10% constriction?
10-15% constriction and asymptomatic?
PASS
10-15% constriction and symptomatic?
FAIL
>15% constriction
FAIL
Ensure these findings are due to bronchospasm rather than loosened and retained sputum (encourage airway clearance, consider repeat spirometry and auscultation)
No:
Test dose successful
Yes:
Test dose failed
Report back to referrer and proceed with course of inhaled medication
Recover
If >15% constriction after 10mins post-drug, give post-test bronchodilator to reverse bronchospasm
Plan
Consider test dose to be repeated on a separate visit (discuss with referrer)
Pre-treat with a bronchodilator or consider alternate medication)