7	Waitemata District Health Board
	Best Care for Everyone

	(PLACE PATIENT LABEL HERE)		
SURNAME:		NHI:	
FIRST NAMES:			
Date of Birth:	/	SEX:	

✓ = YES X = NO ADULT ASTHMA (FOR USE DURING THE COVID PANDEMIC) Date: Time: Assessment nurse: Sign: **INCLUSION CRITERIA EXCLUSION CRITERIA** Chronic lung disease other than asthma: Known asthmatic AND e.g: COPD / Cystic fibrosis / Bronchiectasis Shortness of breath and / or wheeze Age > 65☐ History of heart failure Select Treatment Pathway on Whiteboard: # BCB Asthma Not suitable for this Best Care Bundle Enter actual time started STOP Select 'BCB removed' Treatment Pathway Continue usual nursing cares Data collected for Ministry of Health **NURSING ASSESSMENT** Aim < 30 minutes ☐ History, examination and vital signs Recorded on Nursing Assessment Record ☐ Calculate % Peak Flow 'How to' guide on page 2 Measured Peak Flow (best of three) X 100 =% Peak Flow Patient's 'Best' or 'Predicted' (see page 2) Assess severity & assign pathway using the 'Severity Assessment Tool' below Provide self assessment sheet on a 'Asthma Best Care Bundle clip board' only if patient competent / able Provide patient information sheet √ = YES |X| = NO**RED FLAGS** ALL RED FLAG BOXES MUST BE POPULATED Previous ICU admission (Asthma) Hypotension < 100 systolic Chest pain Pregnant Drowsy Known 'brittle' asthmatic Hypoxia < 94% on air ☐ Current / recent oral steroids NO RED FLAGS **RED FLAGS PRESENT (ANY)** → Senior Dr review ASAP (SMO / Senior Registrar) Dr Name: Sign: Continue **Best Care Bundle** Continue Care Bundle. Move to monitored / Resus (yes / no) follow pathway Exit Care Bundle: Reason: instructions page 3-5 → Select 'BCB removed' in TP column, Electronic Whiteboard. This signals the medical staff SEVERITY ASSESSMENT TOOL Default to higher severity if any doubt Moderate Life threatening Mild Severe % Peak Flow > 70 % 50 - 70 % 33 - 50 % < 33 % Speaking Full sentences Short sentences Words only Words or not speaking None / + Accessory muscles < 18 /min 19-24 /min ≥ 25 /min Silent chest Respiratory rate Respiratory effort Normal Poor respiratory effort 50 - 99 /min 100 - 130 /min ≥ 130 /min Heart rate ≥ 130 /min

7.7.200 A

≥ 94 %

None

SPO2

Exhaustion

92 - 94 %

< 92 %

Exhaustion, altered LOC

≥ 94 %

Tired

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√	= YES	Χ.	- NO
	- IL3		- /40

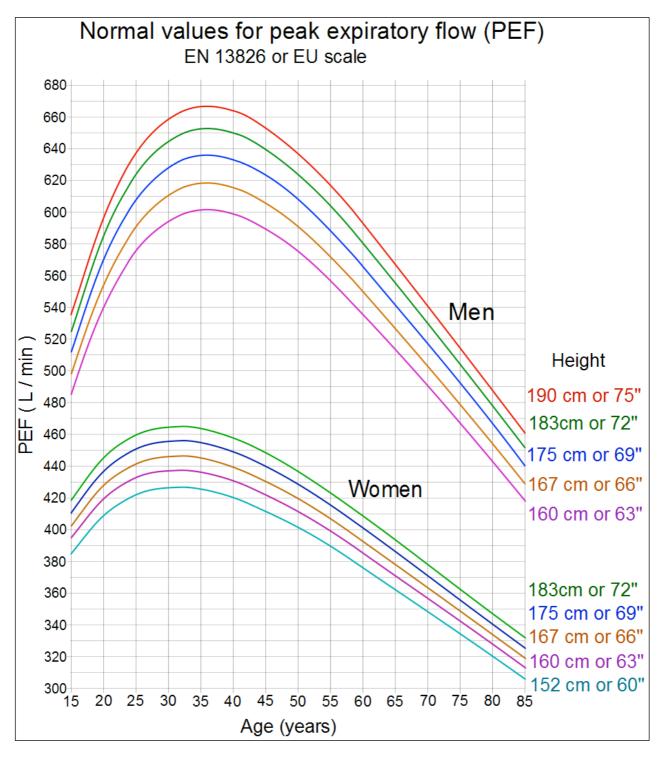
(PLACE PATIENT LABEL HERE)		
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Date of Birth:	/ SEX	:

% PEAK FLOW CALCULATION 'HOW TO GUIDE'

Step 1:
Step 2:

Measure Peak Flow: Use the best of 3 attempts. Ideally the patient should be standing
Best or Predicted Peak Flow. Use the patient's 'Best' Peak Flow if known or
calculate the 'Predicted Best' using the 'Normal Values Chart' below

Calculate % Peak Flow using the formula on page 1



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√	= YES	X	= NO

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	MILD PATHWAY Waiting room / Cubicles area				
	Self administered This can be done	eatments below and on MedChart I & nurse administered. KPI for this bundle I in retrospect using the patient assessment form during the 60min & 2hr review on this pathway are standing orders. Use SPACERS ONLY			
		If-treat using the self assessment ONLY if they understand the instructions eviews every 20 mins			
-	Time:	Salbutamol 6 puffs via spacer Prednisone 40mg oral unless patient only ran out of inhalers. Standing order			
START	PF:	Spacer technique taught / demonstrated			
	Sign:	☐ Patient able to understand & follow instructions on self assessment sheet ☐ Self assessment sheet given and explained			
		V			
20 mins after Rx started	Time:	☐ Better → Observe with no treatment Spacer technique			
20 mins er Rx start	PF:	☐ Static → Salbutamol 6 puffs via spacer ☐ adequate			
2 afte	Sign:	Worse → Moderate pathway □ unot adequate			
7					
40 mins after Rx started	Time:	☐ Better → Observe with no treatment			
40 mins er Rx start	PF:	☐ Static → Salbutamol 6 puffs via spacer			
4 afte	Sign:	Worse → Moderate pathway			
		V			
	Nursing:	☐ Please review now → document all self administered doses above Continue hourly reviews in ED, unless directed otherwise			
S rrted	Clinician:	Consider discharge if only one treatment given. Discharge criteria page 7			
min 7x sta	Time:	☐ Better → Observe with no treatment			
60 mins after Rx started	PF:	Static Salbutamol 6 puffs - further treatment individualised as per clinician or Lead SMO if no sign-on clinician			
	Sign:	☐ Worse → Moderate pathway			
	Time:	☐ Better → Observe with no treatment			
	PF:	Static Salbutamol 6 puffs - further treatment individualised as per clinician or Lead SMO if no sign-on clinician			
rted	Sign:	☐ Worse → Moderate pathway			
hrs 8x sta					
2 hrs after Rx started	Nursing	 ☐ Nursing review now → document all self administered doses above ☐ File self assessment sheet in the notes, if used For audit purposes Continue hourly reviews in ED, unless directed otherwise 			
	Clinician:	☐ Consider stepping up Rx - Even if a mild exacerbation see page 7 & 8 ☐ Review admission & discharge criteria page 7			

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√	_	YES	X	= NO	
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(PLACE PATIENT LABEL HERE)		
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FIRST NAMES:		
Date of Birth:	_11	SEX:

MODERATE PATHWAY

Most patients in Acutes / in highly visible area

- All medications on this pathway are **standing orders**. Document all treatments below and in MedChart *Self administered & nurse administered*
- Salbutamol / Ipratroprium: Spacer to be used in all patients unless absolutely critical
- Nebulisers **only** to be done in a negative pressure room or at minimum, closed door, full PPE, N95 mask
- ? COVID discuss rapid test with ID team
- Patients may self-treat using the self assessment sheet ONLY if they understand the instructions

	atients may se	en-treat using the sen assessment sneet ONLY in they understand the instructions					
	Time:	□ Salbutamol □ 6 puffs spacer or □ 5 mg neb If moved from Mild pathway repeat the Salbutamol □ Ipratroprium Bromide □ 4 puffs spacer or □ 500 microgram neb					
START	PF:	 □ Prednisone 40 mg oral					
	Sign:						
Q	Time:	Better → Salbutamol spacer or neb 4 puffs Spacer technique					
20 mins er Rx starte	PF:	☐ Static → Salbutamol ☐ spacer or ☐ neb					
20 mins after Rx started	Sign:	Worse Salbutamol □ spacer or □ neb □ adequate □					
W .		→ ☐ Dr review: ☐ move to monitored space ☐ not adequate					
		<u> </u>					
40 mins after Rx started	Time:	☐ Better → Salbutamol 4 puffs Spacer or ☐ neb					
	PF:	$\square \text{ Static } \rightarrow \begin{array}{c} \text{Salbutamol} \\ \text{6 puffs} \end{array} \qquad \square \text{ spacer } \text{or } \square \text{ neb}$					
	Sign:						
		→ ☐ Dr review: ☐ move to monitored space					
	☐ Please r	review now → Document self administered doses above					
60 mins er Rx started	Clinician: Consider early admission if little improvement in clinical picture. Admission criteria p7						
	Time:	☐ Better → Observe with no treatment					
60 mins after Rx sta	PF:	☐ Static → Salbutamol ☐ spacer or ☐ neb					
	Sign:						
		→ □ Dr review: □ move to monitored space					

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√	= YES	X	= NO

	(PLACE PATIENT LABEL HE	RE)
SURNAME:		NHI:
FIRST NAMES: _		
Date of Birth:	/	SEX:

	MODERATE PATHWAY continued					
F	Time:	☐ Better → Observe: OBS ward if discharge likely. Individualised care plan				
2 hrs startec	PF:	☐ Static → Salbutamol ☐ spacer or ☐ neb				
+/- 2 hrs after Rx started	Sign:	Worse → Salbutamol				
		→ ☐ Dr review: ☐ move to monitored space				
		<u> </u>				
P	Time:	☐ Better → Observe: OBS ward or discharge if meets criteria				
+/- 3 hrs er Rx starte	PF:	☐ Static → Salbutamol ☐ spacer or ☐ neb				
+/- 3 hrs after Rx started	Sign:	Worse → Salbutamol				
· · ·		→ ☐ Dr review: ☐ move to monitored space				
Nursing review now → document all self administered doses above Nursing: File self assessment sheet in the notes, if used For audit purposes Consider Respiratory CNS review in ED 42765 to request Continue hourly reviews in ED, unless directed otherwise						
- 4 hrs Rx started	Clinician:	Disposition decision. Admission criteria page 7				
+/- 4 hrs er Rx stan	Time:	☐ Better → Observe: OBS ward or discharge if meets criteria				
+/ after	PF:	☐ Static → Salbutamol ☐ spacer or ☐ neb				
	Sign:	Worse → Salbutamol				
		→ ☐ Dr review: ☐ move to monitored space				
		<u>▼</u>				
BES	T CARE BU	NDLE PRESCRIBED CARE CONCLUDED				
	Clinician: Document further instructions & plan in clinical notes All patients on this pathway should be started on: ICS / LABA: Inhaled Corticosteroid / Long Acting Beta Agonist or SMART Rx Even if they are not on ICS yet. See page 7&8 for guidance					
		☐ Review admission & discharge criteria page 7 ☐ Discharge checklist page 7				

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(PLACE PATIENT LABEL HERE)				
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FIRST NAMES:				
Date of Birth://	SEX:			

Call for help → Immediate Senior / SMO review NSH: 43366 / 43777 WTH: 47799 / 488 Manage in resus / negative pressure room under direct supervision of senior clinician Administer O₂ aim to keep Sats 92% - 96% Poor respiratory effort / decreased GCS → MEDICAL EMERGENCY (777) SALBUTAMOL 5 mg nebulised back to back with oxygen x 3. Aim SPO2 92 - 96% Staff must don full PPE with N95 mask. Negative pressure room or closed door at minim For ? COVID patients discuss rapid testing with ID team IPRATROPIUM BROMIDE 500 mcg nebulised every 20 minutes x 3 PREDNISONE 40mg oral stat or HYDROCORTISONE 200 mg IV Prednisone preferred if able to swallow. Arterial Blood Gas ASAP: Hypercapnoea → Medical Emergency Call Poor response MAGNESIUM SULPHATE 50% (5 -10 mMol / 1.2 - 2.47 g) 2.5 - 5 mL Slow IV push or infusion. Can be started earlier if severe Poor response SALBUTAMOL IV Bolus 250-500 microgram Poor response SALBUTAMOL IV Bolus 250-500 microgram PRN Q5 mins Poor response SALBUTAMOL IV infusion See page 8 or infusion book in resus Dose range 3 - 20 mcg per minute. Usual starting dose 5 mcg per minute Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride = 0.01mg / mL = 10 mcg / mL		SEVERE OR LIFE THREATENING ASTHMA GUIDE FOR DOCTORS Important: This page serves as a guide for the clinician. It is not a rigid prescription				
For ? COVID patients discuss rapid testing with ID team □ IPRATROPIUM BROMIDE 500 mcg nebulised every 20 minutes x 3 □ PREDNISONE 40mg oral stat or HYDROCORTISONE 200 mg IV Prednisone preferred if able to swallow. □ Arterial Blood Gas ASAP: Hypercapnoea → Medical Emergency Call Poor response □ MAGNESIUM SULPHATE 50% (5 -10 mMol / 1.2 - 2.47 g) 2.5 - 5 mL Slow IV push or infusion. Can be started earlier if severe Poor response □ SALBUTAMOL IV Bolus 250-500 microgram Poor response □ SALBUTAMOL IV Bolus 250-500 microgram PRN Q5 mins Poor response □ SALBUTAMOL IV infusion See page 8 or infusion book in resus Dose range 3 - 20 mcg per minute. Usual starting dose 5 mcg per minute Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride = 0.01mg / mL = 10 mcg / mL		☐ Manage in resus / negative pressure room under direct supervision of senior clinician ☐ Administer O ₂ aim to keep Sats 92% - 96%	18934			
Arterial Blood Gas ASAP: Hypercapnoea → Medical Emergency Call Poor response MAGNESIUM SULPHATE 50% (5 -10 mMol / 1.2 - 2.47 g) 2.5 - 5 mL Slow IV push or infusion. Can be started earlier if severe Poor response SALBUTAMOL IV Bolus 250-500 microgram Poor response SALBUTAMOL IV Bolus 250-500 microgram PRN Q5 mins Poor response SALBUTAMOL IV infusion See page 8 or infusion book in resus Dose range 3 - 20 mcg per minute. Usual starting dose 5 mcg per minute Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride = 0.01mg / mL = 10 mcg / mL		Staff must don full PPE with N95 mask. Negative pressure room or closed door at min For ? COVID patients discuss rapid testing with ID team IPRATROPIUM BROMIDE 500 mcg nebulised every 20 minutes x 3 PREDNISONE 40mg oral stat or HYDROCORTISONE 200 mg IV	imum.			
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Poor response SALBUTAMOL IV Bolus 250-500 microgram Poor response SALBUTAMOL IV Bolus 250-500 microgram PRN Q5 mins Poor response SALBUTAMOL IV infusion See page 8 or infusion book in resus Dose range 3 - 20 mcg per minute. Usual starting dose 5 mcg per minute Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride = 0.01mg / mL = 10 mcg / mL		· · · · · · · · · · · · · · · · · · ·	_			
SALBUTAMOL IV Bolus 250-500 microgram Poor response SALBUTAMOL IV Bolus 250-500 microgram PRN Q5 mins Poor response SALBUTAMOL IV infusion See page 8 or infusion book in resus Dose range 3 - 20 mcg per minute. Usual starting dose 5 mcg per minute Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride = 0.01mg / mL = 10 mcg / mL	L		200			
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Dose range 3 - 20 mcg per minute. Usual starting dose 5 mcg per minute Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride = 0.01mg / mL = 10 mcg / mL	.	Poor response	linit			
= 0.01 mg/mL = 10 mcg/mL		, •	— ш			
Poor reconces	7		NOGSE			
Poor response	_	Poor response	ä			
Consider NIV as rescue intervention Consider NIV as rescue intervention Early ICU involvement if deteriorating or not responding ICU reg: 021 494 920 Ventilation settings: Rate: 6 / min, TV: 6-8 mL / kg, FiO2: 100%, PEEP 5 Consider Ketamine for induction agent 2 mg / kg. Consider delayed sequence intubation Anaesthetist via operator at WTH or medical emergency via 777	Co Ea Ve	onsider NIV as rescue intervention arly ICU involvement if deteriorating or not responding ICU reg: 021 494 920 entilation settings: Rate: 6 / min, TV: 6-8 mL / kg, FiO2: 100%, PEEP 5 onsider Ketamine for induction agent 2 mg / kg. Consider delayed sequence intubation				

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√	= YES	X	= NO

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DISCHARGE CRITERIA MUST MEET ALL	ADMISSION CRITERIA
 □ Peak Flow at least > 70% of 'Best' or 'Predicted' □ Vital signs within normal limits □ SPO2 > 94% on air □ Spacer technique assessed as satisfactory □ Senior doctor agrees with discharge plan 	Any severe / life threatening signs at any time Persistent abnormal vital signs Multiple medical co-morbidities Poor response to treatment Known high risk factors such as: Social isolation Concern about compliance Disability or learning difficulties Previous life threatening / near fatal asthma / intubation Presentation late at night
DISCHARGE CHECKLIST	FOLLOW UP - please document this in the EDS
 □ Script for short course Prednisone □ Consider stepping up treatment: guide below • Patient education video on CeDDS • Add link to education video to your EDS □ Check compliance & technique - educate if needed • Resp CNS available to review in ED in hours 42765 □ Patient information leaflet given and discussed In Bundle Pack or on BCB page, CeDSS Asthma action plans available on CeDDS □ Smoking cessation advice / support if relevant 	☐ GP follow up all patients. Recommend Influenza Vaccine ☐ Asthma NZ referral • In hours: 09 623 0236 • Asthma.org.nz/pages/patient-referrals ☐ Respiratory Nurse Specialist • Inpatient: 42765 could see patient in ED in hours • Outpatient clinics: Electronic referral ☐ Respiratory clinic referral: fax 42348 • If > 3 attendances this year or clinician concern
+ Respiratory FOUNDATION NZ ANY OF	EP UP RX:

Asthma + Respiratory FOUNDATION NZ ANY OF				
Acute exacerbation: All patients on this bundle - esp MODERATE Pathway Asthma symptoms / Salbutamol use > 2 times per week Poor symptom control: ≥ 2 courses of steroids in the last 12 months ≥ 2 visits to ED this year		The National Asthma Foundation recommends that ICS therapy is introduced if patients have symptoms > 2 times the last week, with evidence of benefit in patients with less frequent symptoms, or anyone who presents with severe exacerbation (i.e ED visit, hospital admit or needing a cour of steroid)		
HOW TO STEP UP & WI	HICH INHALER? Formula.	ry page 8 for options & dosages		
Not on a preventer	→ ☐ Start Inhaled Corticoste	roid (ICS)		
☐ Already on a preventer OR ☐ Moderate / Severe pathway	or Symbicort SMART One	(ICS/LABA) Rx see formulary p8 inhaler instead of two. No separate SABA n lead to decreased ED returns & improved Sx control		
Already on combination Rx (ICS / LABA) AND poor compliance	Good evidence this car	ART One inhaler instead of two. No separate SABA lead to decreased ED returns & improved Sx control sialist referral: 42756 in hours. Otherwise Yellow referral		
Already on combination Rx (ICS / LABA) AND good compliance		spiratory team / Resp Nurse Specialist 42756 is high dose step 4. See guideline p8		

FORMULARY / MEDICATION OPTIONS

CHECK ALLERGY STATUS AND SEE MEDSAFE OR OTHER TEXT FOR FULL LIST OF CONTRAINDICATIONS**

ALL MEDICATIONS MUST BE CHARTED ON THE NATIONAL MEDICATION CHART

TREATMENT IN ED ALL ARE NURSE INITIATED STANDING ORDERS document first dose in e-prescribing and all other doses on the bundle Medication Route Freq Standing Order see CeDDS Salbutamol MDI 100 mcg / actuation 6 puffs Spacer Q 20 min As per pathway or clinician direction Clinician instruction only if absolutely necessary. Staff Salbutamol nebulised 5 mg Nebuliser Q 20 min must don full PPE including N95 mask. Neg pressure 5 mg room or an minimum closed door room Standing Order see CeDDS Ipratropium MDI 20 mcg / actuation 4 puffs Spacer 4 hourly Every 20 minutes x 3 in severe asthma (see note re Ipratropium nebulised 500 microgram Nebuliser nebulising above) Prednisone first oral dose Oral Stat Standing Order see CeDDS 40 mg Prednisone for discharge 40 mg Oral OD Script for 5 days to be given at discharge

SEVERE ASTHMA FOR USE IN RESUS ONLY AS DIRECTED BY DOCTOR. NOT STANDING ORDER						
Hydrocortisone 100 mg / 2 ml	200 mg	IV	8 hourly	Follow with oral dose within 6 hours		
Magnesium Sulphate 50%	2.5 - 5 mL	IV	/20 min	(1.2-2.47 g, 5-10 mMol)		
Salbutamol IV bolus	250-500 microgram	IV	Q 5 min	DOCTOR administration only		
Salbutamol Infusion	3-20 microgram/min	IV		Usual starting dose 5 mcg / min Rx: 5mg Salbutamol, dilute in 495 mL of 0.9% Sodium Chloride. = 0.01mg / mL = 10 mcg / mL		
Adrenaline Nebulised 1mg / ml	5 mg	Nebuliser		Nebulisation requires neg pressure room and full PPE		
Ketamine	2 mg / kg	IV	Stat	For induction of anesthesia for RSI Consider delayed sequence induction if appropriate. Senior clinician guidance		

Asthma + Respiratory

STEP 1 SABA reliever Rx STEP 2
STD dose ICS &
SABA reliever Rx

STEP 3
STD dose ICS /LABA & SABA
OR
STD dose SMART Rx

STEP 4
HIGH dose ICS /LABA
& SABA

OR
HIGH dose SMART R

STEP 5

HIGH dose ICS /LABA & SABA **OR** HIGH dose SMART RX

Consider add-on Rx and specialist advice

step 3. Maximum 6 extra							
PREVENTER: ICS: Inhaled Corticosteroids usually taken in addition to short acting reliever. Standard doses							
Floair ® / Flixotide ®	125 mcg	MDI	Fluticasone	1 puff	BD	step 2	
Beclazone ®	200 mcg	MDI	Beclomethasone	1 puff	BD	step 2	
Qvar [®]	100 mcg	MDI	Beclomethasone	1 puff	BD	step 2 No generic substitution	
Pulmicort ®	200 mcg	Turbuhaler	Budesonide	1 puff	BD	step 2	
COMBINATION RX:	CS / LABA	(Long acting	beta agonist & corticostero	id) <i>usual</i>	lly taken ii	n addition to short acting reliever	
Seretide ® / Rexair ®	50/25	MDI	Fluticasone/Salmeterol	2 puffs	BD	step 3	
Vannair ®	200/6	MDI	Budesonide/Eformoterol	1 puff	BD	step 3	
Seretide ®	100/50	Accuhaler	Fluticasone/Salmeterol	1 puff	BD	step 3	
Symbicort ®	200/6	Turbuhaler	Budesonide/Eformoterol	1 puff	BD	step 3	
Seretide ® / Rexair ®	125/25	MDI	Fluticasone/Salmeterol	2 puffs	BD	step 4	
Symbicort ®	200/6	Turbuhaler	Budesonide/Eformoterol	2 puffs	BD	step 4	
Breo Ellipta ®	100/25	Accuhaler	Fluticasone/Vilanterol	1 puff	OD	step 4	
Symbicort SMART (Single inhaler Maintenance And Reliever Therapy) NO short acting reliever required This inhaler is ALSO used as a reliever. Maximum 12 doses total per day during initiation or exacerbation							
Symbicort SMART®	200/6	Turbuhaler	Budesonide/Eformoterol	1 puff	BD & PRN	step 3. Funded for up to 3 inhalers/ month. Maximum 12 doses per day during initiation or exacerbation.	
Symbicort SMART®	200/6	Turbuhaler	Budesonide/Eformoterol	2 puffs	BD & PRN	Provide 2-3 OP. Remind patients t discard Salbutamol inhalers	