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RECOMMENDATIONS ON SETTING UP A SEVERE ASTHMA CLINIC IN MALAYSIA

1.0 Definition of Severe Asthma

Severe asthma is asthma that remains 'uncontrolled' despite optimized treatment with high dose inhaled corticosteroids (ICS)-long-acting beta2-agonist (LABA), or that requires high dose ICS-LABA to prevent it from becoming 'uncontrolled'. [1]

2.0 Definition of Severe Asthma Clinic

Severe asthma clinic is a systematic and organized clinic dedicated for severe asthma patients.

Services of severe asthma clinic includes provision of a systematic approach to the management of the disease and aids in confirming the correct diagnosis, managing comorbid conditions that may mimic or aggravate asthma, and provides the environment to optimize treatment and asthma self-management skills and education. A severe asthma service is also the ideal environment for research opportunities, as well as for trialling add-on therapies and hence can improve patient outcomes and clinical practice. ^[2]

3.0 Scope

The scope of this recommendation paper is for adult severe asthma patients (12 years and above).

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4.0 Central Components Needed to Set Up Severe Asthma Clinic

(1) Multidisciplinary Coordination			
Staff	Core Members	Additional Members	
	Pulmonologist	Dietitians	Speech Therapist
	Pharmacist	Physiotherapist	 Gastroenterologist
	Respiratory	 ENT Specialist 	 Radiologist
	Technician	 Psychologist/Psychiatrist 	
	Nurse		
Training	 Regular trainings sh 	ould be planned and conducted	l for the severe asthma
	clinic staffs.		
	 Recommended meth 	nods of training: Workshops a	and continuing medical
	education (CME) med	etings	
	 Targets should be set 	for the staff to complete and ach	ieve annually. Examples
	of metrics include CP	of metrics include CPD points collected from severe asthma-related trainings,	
	and the number of co	ourses/meetings attended.	

(2) Healthcare Resources	
Facilities	Consultation room
	Treatment room
	 Resuscitation facilities and equipment
	 Access to laboratory tests and blood draw
	 Access to total IgE & specific IgE tests
	 Access to echocardiography test
	 Access to bronchoscopy/bronchial thermoplasty

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(2) Healthcare Resources		
Equipment	Mandatory	Optional (Good to possess)
	Peak Flow Meter	Skin prick test
	Chest x-ray	Sleep Study
	• Spirometer	Impulse oscillometry
	• FeNO	system (IOS)
	Full Lung Function Test	Bronchial challenge test
	CT Scan	
	Device for inhaler technique	
	assessment	
	Placebo inhalers	

(3) Management Approach		
Treatment	Assessment of adherence	
	 Treatment protocols for severe asthma based on current guidelines 	
	 Asthma Action Plan for patients 	
	 Access to standard treatments for asthma, including ICS-LABA therapies 	
	 Access to triple therapies 	
	 Access to treatments for severe asthma comorbidities 	
	 Access to biologics 	
	 Access to bronchial thermoplasty 	
	 Access to sublingual & subcutaneous immunotherapies 	

(4) Patients	
Source of	Referral from primary and secondary care institutions
Patients	Referral from other tertiary institutions with no severe asthma clinics
	 Patients who are already following up at the clinic





(cont.) (4) Patients	
Patient	Should be in place to monitor patient outcomes, patient audits and for possible
Database	inclusion in research data collection

(5) Services		
Activities in	a) Assessment & confirmation of diagnosis	
Clinic	b) Assessment & treatment of comorbidities and asthma triggers	
	c) Phenotyping & endotyping of patients	
	d) Asthma education & counselling	
	e) Treatment of severe asthma disease	
	f) Follow-up & optimization of self-management skills	
Awareness	 Disease awareness activities to the public (for example, pamphlets, social 	
	media sharing)	

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