Guideline for the Assessment and Management of Acute Asthma in Adults

University Hospitals of Leicester NHS Trust

Trust ref: B7/2012

1. Introduction

This guideline sets out the recommended assessment and management process for acute asthma exacerbations in adults, and is based on the Sign Guidelines 2016 Management of Acute Asthma.

https://www.sign.ac.uk/assets/sign153.pdf

Please refer to the LLR adult asthma guidelines for the long term management of asthma outside of an acute exacerbation:

http://267lv2ve190med3l1mgc3ys8.wpengine.netdna-cdn.com/wp-content/uploads/2016/05/AsthmaAdultGuidelines.pdf

2. Scope

This guideline applies for use in all adult patients who are admitted to UHL with an episode of acute asthma. It is intended for use by any medical staff treating these patients.

This particularly includes junior doctors and consultants working in acute areas such as, medical assessment units such as CDU (GGH) AMU (LRI) and all inpatient wards (including LRI, GGH and LGH) where patients with asthma may be treated. It may also be useful for nursing staff in these areas.

3. Assessment and Management of Acute Asthma in Adults

Two care bundles have been developed to meet the standards for initial assesment and management of acute exacerbations of asthma; and for management prior to discharge. See Appendix 1 and 2.

4. Monitoring and Audit Criteria

KPI	Method of Assessment	Timescales
100% of staff will be aware of where to locate UHL Asthma Guidelines	Audit (local)	Annual
100% of staff will correctly grade severity of acute asthma attack	Audit (local)	Annual
100% of staff will correctly manage acute attack based on care bundle	Audit (local)	Annual

In addition to this the annual BTS Asthma Audit will measure standards of care compared to national performance. Lead for this Section: Professor P Bradding, Respiratory Consultant.

5. Legal Liability Guideline Statement

Guidelines or Procedures issued and approved by the Trust are considered to represent best practice. Staff may only exceptionally depart from any relevant Trust guidelines or Procedures and always only providing that such departure is confined to the specific needs of individual

circumstances. In healthcare delivery such departure shall only be undertaken where, in the judgement of the responsible healthcare professional' it is fully appropriate and justifiable - such decision to be fully recorded in the patient's notes

	DEVELOPMENT AND APPROVAL RECORD FOR THIS DOCUMENT					
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Approved by:	Respi	ratory			PGC 29.7.22 (v3)	
			REVIEW	RECORD		
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25/05/2022		Dr Onyeka Umerah	Asthma as	sessment & mana	gement care bundle (App.	x-1) updated
			DISTRIBUTI	ON RECORD:		
Date	Name			Dept		Received

Appendix 1: Asthma assessment and Management Care Bundle

Asthma Assessment and Management C	are Bundle Univ	ersity Hospitals of Leicester NHS Trust NHS
Patient name:	S No:	
Step 1-Diagnosis		
Likely asthma – typical symptoms of wheeze family history of asthma or atopy, Low PEF, raised ed		turnal and early morning symptoms,
Possibly not asthma - No wheeze on examin period (over 20 years). Voice disturbance, cardiac dis		, , ,
Step 2—Assessment		
Document clinical examination, including Res	piratory rate, SpO2, Heart rate	2
Request ECG to rule out arrhythmias.		
 CXR not routinely required, unless consolidate with life threatening features or those who fall 		ected. CXR indicated for patients
	quivalent dose of hydrocortis	sone) in the last 6 hours?
Admitting PEF: Best/Predic	Peak Flow: eted PEF in last 12 months:	Patient's PEF as% of Best:
	l/min	l/min
Step 3—Severity and Management		
	Т	REATMENT
MODERATE □ PEF 50-75% of best or predicted □ No features of severe asthma present	response. Repeat every 10- □ Oral/iv steroids-give stat wi hours	ion 94-98% 10 puffs via spacer device and assess -20 minutes as necessary up to 20 puffs ithin an hour if not received within the last 6 mol 2.5mg (via oxygen-driven nebuliser) if se to salbutamol MDI + spacer after 20 puffs
SEVERE EXACERBATION (any 1		tion 04 000/
□ PEF 33-50% of best or predicted □ Cannot complete sentences in 1 breath □ Respiratory Rate>25/min	 Oxygen to maintain saturat Inhaled salbutamol MDI 4-1 response. Repeat every 10- Oral/iv steroids-give stat wi hours 	tion 94-98% 10 puffs via spacer device and assess -20 minutes as necessary up to 20 puffs ithin an hour if not received within the last 6
□ Heart Rate >110/min	 Consider nebulised salbutar ipratropium 500 microgram 	mol 2.5mg and 6-hourly nebulised ns (via oxygen-driven nebuliser) if there is butamol MDI + spacer after 20 puffs G
LIFE THREATENING or NEAR-FATAL (any 1 feature)	the last 6 hours Give nebulised salbutamol ipratropium 500 microgram Inform senior, perform ABG Arrange assessment by ITU Urgent portable CXR Consider iv Magnesium 2g :	ithin an hour if not received within 2.5-5mg back-to-back and 6-hourly nebulised ns (via oxygen-driven nebuliser) 5
*Usual oral steroid dose in acute asthma is prednisolone 40mg once patient is on maintenance steroids. If the patient is unable to have *If nebulised ipratropium is prescribed for severe or life threatening of	oral prednisolone, give iv hydrocortisc	one 100mg qds
Completed by: Name & Sign:		Date:

Α	Asthma Discharge Care F	Bundle	University F	Hospitals of NHS
F	Patient Name:	S. No.:		Leicester NHS Trust
1.	Current Peak Flow Rate : best and has been off ne		•	Yes No
2.	If the patient is a smoker ICM.	offer smoking ce	essation via	N/A Yes
	Has NRT been prescribe	d ?		N/A Yes
3.	Asthma triggers discusse	ed		Yes No
	Inhaled preventer and reliever treatment prescribed together with prednisolone.		Yes No	
	Inhaler technique checke	d and satisfactor	У	Yes No
4.	Education about the importment particularly inhomogiven and understood.			Yes No
5.	A Personal Asthma Action given/reviewed by trained		as been	Yes No
	A PAAP has been given to advised to take it to PN fo from: http://www.asthma.c	r completion. Do	ownload	Yes No
6.	Follow up: Patient has be 48 hours of discharge.	een advised to se	ee GP within	Yes No
	Peak Flow Meter given to	patient		Yes No
7.	Patient has been referred	to Asthma Nurse	es via ICE	Yes No
	Patient has been referre			Yes No
	If any criteria are not being me	et, please discuss t	he case with your	immediate senior.
D	Ooctors Name and Signatur	re Nurse Name	and Signature	Date completed
D	Date _	Date		