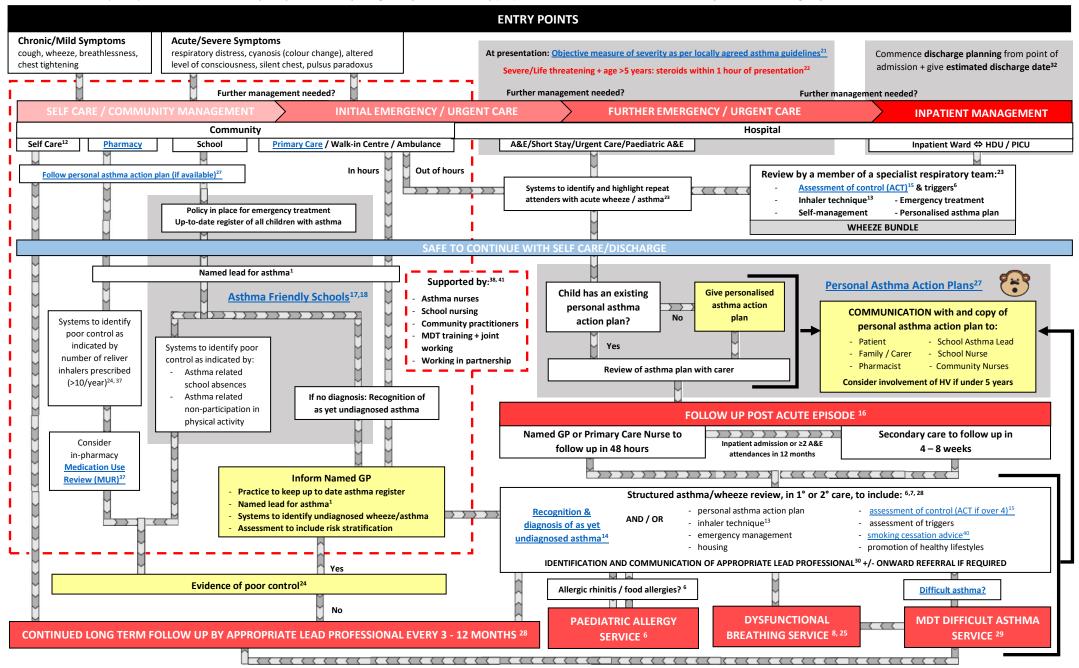


## Asthma/Recurrent Wheeze Aspirational 1° and 2° Care Pathway<sup>2</sup>



Numbers in superscript refer to corresponding Healthy London Partnership (HLP) Standard as outlined in London Asthma Standards for Children and Young People, HLP, 2016



## Healthy London Partnership London Asthma Standards for Children and Young People

As per London Asthma Standards for Children and Young People, HLP, 2016





Standard	All ampiration for the state of			
1	All organisations/services must have a named lead responsible and accountable for asthma (which includes children and			
	young people (CYP)).			
2	There are formal partnerships established between providers of CYP services.			
	There is demonstration of a commitment to work within a multidisciplinary** network of care across the pathway that			
	focusses on children with asthma and links providers, commissioners, public health and local authorities with CYP and their			
	families.			
	The networks develop shared pathways, protocols and consider workforce planning.			
	There is evidence of collaboration between all sectors including local children's safeguarding boards.			
6	Every child has an assessment of the triggers for their wheeze and is educated about how to deal with this.			
	Children with asthma should be screened for other atopic comorbidities, in particular allergic rhinitis and food allergy.			
	There is access to a paediatric allergy service for assessment and appropriate management, including adrenaline auto			
	injector device prescription and training if required.			
7	Consultations routinely promote healthy lifestyles, including assessment of long term health needs, such as:			
	<ul> <li>Systematic approach to obesity (e.g. growth measurement, calculation of BMI).</li> </ul>			
	<ul> <li>Assessment of CYP and family for living conditions and housing freed from damp and mould, alcohol, drugs</li> </ul>			
	and smoking.			
	Every child and their family are assessed at health or social care encounters for their exposure to smoking either actively or			
	passively (this includes e-cigarettes). They should be provided with brief advice and referred to smoking cessation clinics.			
	There is access to smoking cessation clinics and other support services for families, Fraser competent CYP and carers that			
	address issues of smoking and monitor outcomes.			
12	CYP and their families have access to self-management support packages which may include peer support.			
13	NICE Statement 4: People with asthma are given specific training and assessment in inhaler technique before starting any			
13	new inhaler treatment. (This should be age appropriate.)			
14				
14	NICE Statement 1: People with newly diagnosed asthma are diagnosed in accordance with BTS/SIGN13 and NICE34			
	guidance.			
15	NICE Statement 6: People with asthma who present with respiratory symptoms receive an assessment of asthma control.			
16	NICE Statement 10: People who received treatment in hospital or through out-of-hours services for an acute exacerbation			
	of asthma or wheezy episode are followed up by their own GP practice within two working days or less* of treatment.			
	If required secondary care follow up is provided within one month for every child admitted with asthma and for patients			
	who have attended the emergency department two or more times in the past 12 months.			
17	Clear effective partnership arrangements are in place between health, education and local authorities for management of			
	CYP with asthma within primary and secondary schools (Asthma friendly schools programmes). This includes the adoption			
	of government policy on emergency inhalers and early years settings such as children's centres having access to education			
	programmes for children with wheeze.			
18	CYP have an individual healthcare /action plan in place. The school has in place:			
	- Register of all CYP with asthma.			
	- Management plan for each child.			
	<ul> <li>Named individual responsible for asthma in school.</li> </ul>			
	<ul> <li>Policy for inhaler techniques and care of the CYP with asthma.</li> </ul>			
	<ul> <li>Policy regarding emergency treatment.</li> </ul>			
	- System for identifying children who are missing school because of their asthma or who are not partaking in			
	sports / other activities due to poor control.			
21	NICE Statement 7: People with asthma who present with an exacerbation of their symptoms receive an objective			
	measurement of severity* at the time of presentation.			
22	NICE Statement 8: People aged 5 years or older presenting to a healthcare professional with a severe or life-threatening			
	acute exacerbation of asthma receive oral or intravenous steroids within one hour of presentation and seen by the			
	respiratory team directly.			
22	· · · · · · · · · · · · · · · · · · ·			
23	NICE Statement 9: People admitted to hospital with an acute exacerbation of asthma have a structured review by a			
	member of a specialist respiratory team** before discharge.			
	The structured review includes:			
	<ul> <li>Assessment of control (Children's Asthma Control Test (ACT)40 if aged over 4 years) and / or triggers for</li> </ul>			
	wheezing.			
	- Inhaler techniques.			
	<ul> <li>Self-management and how to manage acute exacerbations.</li> </ul>			
	- Personal asthma action plan.			

There are systems in place in acute and community care for identifying patients at high risk, poorly controlled or severe asthma and monitoring/tracing and managing hose CYP who have had in the last year:  More than one admission.  Admission to HDI, LCH PICU.  Two or more unscheduled visits to the GP (requiring short courses of oral steroids).  Ten or more unscheduled visits to the GP (requiring short courses of oral steroids).  Ten or more unscheduled visits to the GP (requiring short courses of oral steroids).  Ten or more sabibutamol inhalers.  Bo per cent or less suplaced in repeat preventer prescriptions.  There is access to paedistric physiotherapist with an interest in dysfunctional breathing (ideally ability to direct refer from primary care).  NICE statement 3: People with asthma receive a structured review* at least annually (preferably every three months, depending on severity and clinical need). This must include understanding of their condition and treatment, assessment of adherence, inhaler technique and children's ACT40 for those aged over four years.  Year of the condition of the second of the responsible lead / link person caring for child to patients and families.  There is a system to communicate the name of the responsible lead / link person caring for child to patients and families.  Systems are in place to ensure safe discharge and transfer between providers. This includes the following:  Systems are in place to ensure safe discharge and transfer between providers. This includes the following:  Systems are in place to ensure safe discharge and transfer between providers. This includes the following:  Systems are in place to ensure safe discharge and transfer between providers. This includes what to do, when and where to access further care if necessary, clear instructions on follow up and arrangements in case of each attendance and follow up is booked within two days (including health visitor and school nurse).  Information is provided to GP and community teams electronically within 24 hou	Standard	
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30 There is a system to communicate the name of the responsible lead / link person caring for child to patients and families.  32 Systems are in place to ensure safe discharge and transfer between providers. This includes the following:  All admitted CYP have discharge planning and an estimated discharge date as part of their management plan as soon as possible.  - The primary care team / GP is informed of discharge within agreed timescale of each attendance and follow up is booked within two days (including health visitor and school nurse).  - Information is provided to GP and community teams electronically within 24 hours.  - Clear written information and advice is provided to families which includes what to do, when and where to access further care if necessary, clear instructions on follow up and arrangements in case of emergency at home. This includes telephone advice.  - Pharmacles ensure availability of medicines and utilisation of home delivery services. This is of greater relevance for weekend discharge.  37 There are systems in place to:  - Identify, monitor, and manage through an alert system to clinicians the numbers of prescriptions for prednisolone, inhaled steroids, 10 or more preventer inhalers in a year, children with asthma and flu jab uptake.  - Identify and manage CYP prescribed inhalers at doses higher than recommended in product licence.  - MURs and new medicine reviews for to promote medicines optimisation including inhaler technique assessment  Note: Reviews with parents for younger children: PSNC guidance states the patient retherique assessment of the consent arrangements in order to be eligible to receive the service. There is no minimum age, but pharmacists will know that the younger the child, the greater the likelihood is that they would not be competent.  - Use of CCG medicines management teams to develop local prescribing guidelines to support evidenced based care for CYP.  - Coordination between CCG medicine management pharmacists, secondary care pharmacists and community pharma		•
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opportunities and standardisation to develop and maintain skills across the care pathway.	41	
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For a full list of standards, please see London Asthma Standards for Children and Young People, HLP, 2016

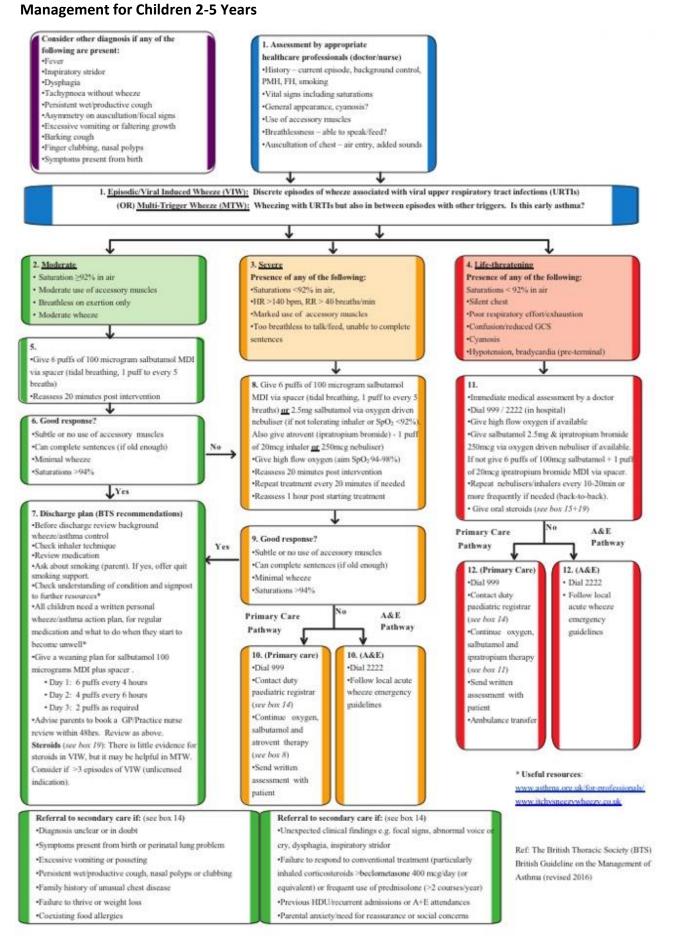


## Appendix 1:

### **Acute Wheezy Episode**







## **Appendix 1:**

### **Acute Wheezy Episode**

### NORTH LONDON PARTNERS in health and care North Central London's sustain and transformation partnership



### **Management for Children 2-5 Years**

#### 13. Community Children's Nursing (CCN) Teams

#### Barnet

Tel: 020 8216 5242

E: rf-tr-childrenshomecareteam@nhs.net

#### Camden & South Barnet

Tel: 020 7830 2571

E: rf.communitychildrensnurses@nlscnet

Tel: 020 8375 1992

E: rf-tr-childrenshomecareteam@nbs.net

Tel: 020 8887 3301

E: northmidchildrenscommunitynurses@nbs.net

Tel: 9203 316 1950

whh-tr.islingtonchildrensnursing@nhs.net

#### 14. Secondary Care Referrals

\*For urgent referrals, contact paediatric registrar on call via hospital switchboard\*

#### Barnet Hospital

Dr. Sue Laurent

Sue Laurent@nhs.net

Switchboard: 020 8216 4600

### Royal Free Hospital

Dr. Rahul Chodhari

#### R.Chodhari@nhs.net

Switchboard: 020 7794 0500

#### North Middlesex Hospital

Dr. Arvind Shah and Dr. Dhruv Rastogi

Switchboard: 020 8887 2000

#### University College Hospital

Dr. Eddie Chune

Switchboard: 020 3456 7890

#### Whittington Hospital

Dr. John Moreiras

John moreiras@nhs.net Switchboard: 020 7272 3070

#### 15. Asthma predictive Index (API)

- . For a positive API there must be a history of ≥4 wheezing episodes, with at least one doctor diagnosed episode.
- \*In addition the child must meet either one major criteria or at least two minor criteria::

- \*Parental history of asthma
- Doctor diagnosed eczema (atopic dermatitis)
- \*Allergic sensitisation to at least 1 aeroallergen (e.g. trees, grasses, dust mites)

#### Minor Criteria

- \*Allergic sensitisation to milk, egg or peanuts
- ·Wheezing unrelated to colds
- \*Blood cosinophils > 4%

#### 16. Inhalers vs. nebulisers

For moderate asthma use an inhaler and spacer. If 5-years-old or older use the mouth piece, rather than mask (providing their technique is good)

Indications for nebulisers:

- •Low saturations <92%
- Unable to use inhaler and spacer (not compliant)
- \*Severe and life-threatening respiratory distress
- Nebulisers are not generally recommended for

#### 17. Viral Induced wheeze (VIW)

- 1/3 of children have an episode of wheezing in the first 3 years of life, usually triggered by a viral infection Only 20% of these children will go on to have asthma. The classification and treatment of wheeze in this ag
- They should not routinely be labeled as having asthma as the pathophysiology of a VIW is different from
- Caveat: early onset asthma may be indistinguishable from VIW at first presentation.
- It is important to consider the temporal pattern of wheezing:
- Episodic (viral) wheeze: child only wheezes with viral URTIs and is symptom free in between episodes.
- Multiple-trieger wheeze; child wheezes with URTIs but also with other triggers such as exercise, smoke and allergen exposure.

#### 19. Steroids

- . There is growing evidence that oral and Inhaled steroids are ineffective in preschool children (< 5yrs) presenting with VIW and therefore should not be prescribed routinely.
- Careful assessment of all children presenting with wheeze remains essential to ensure that the diagnosis of asthma is not missed.
- · Consider oral corticosteroids in those who need HDU and/or have a positive API (box 15)
- Consider a trial of inhaled corticosteroids in children with MTW (i.e. beclometasone 200-400mcg daily for 4 to 8 weeks). If there is no improvement, stop. If there is improvement, stop and see if symptoms recur on stopping. If inhaled corticosteroid needed, the dose can then be reduced to the minimum amount required.

#### Predaisolone by mouth:

- <12 years I mg/kg (max. 40 mg) daily for up to 3 days (children's BNF)</p>
- . If weight not available, use a dose of 20mg for children 2-5 years (BTS guidelines 2012)

This guidance is written in the following context: This pathway was arrived at after careful consideration of the evidence available including but not exclusively using the BTS guidelines. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or caret. If you have any queries with regards to the information contained with this document please contact Dr John Moreiras (john.moreiras@nhs.net)

Review date: December 2020

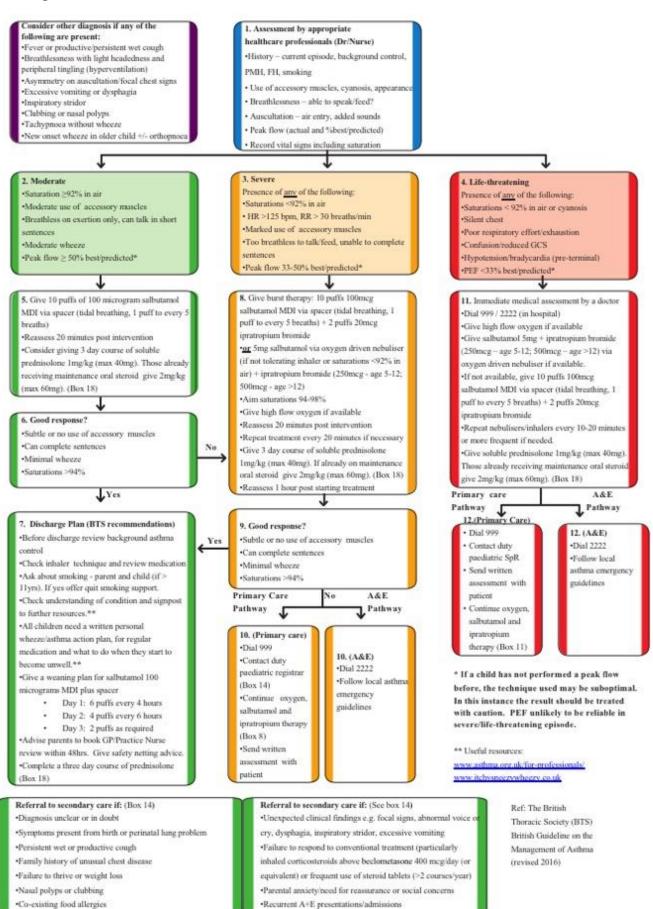
## **Appendix 2:**

### **Acute Asthma Attack**





### **Management of Known Asthmatic Children 5-18 Years**



## Appendix 2:

### **Acute Asthma Attack**





### Management of Known Asthmatic Children 5-18 Years

13. Community Children's Nursing (CCN)

Tel: 929 8216 5242

E: rf-tr.childrenshomecareteam@nhs.net

#### Camden & South Barnet

Tel: 020 7830 2571

E: rf.communitychildrensmarses@nhs.net

Tel: 020 8375 1992

E: rf-tr-childrenshomecareteam@nhs.net

Tel: 020 8887 3301

E northmidchildrenscommunitynurses@nbs.net

For moderate asthma, use an inhaler and spacer.

If >5 years old use the mouth piece, rather than

mask (providing their technique is good)

. Unable to use inhaler and spacer (not

Severe and life threatening respiratory

Nebulisers are not generally recommended

Tel: 0203 316 1950

16. Inhalers vs nebulisers

Indications for nebulisers:

Low saturations <92%</li>

compliant)

for home use.

whh-tr.islingtonchildrensnursing@nhs.net

#### 14. Secondary Care Referrals

\*For urgent referrals, contact paediatric registrar on call via hospital switchboard\*

### Barnet Hospital

Dr. Sue Laurent

Sue.Laurent@phs.net

Switchboard: 020 8216 4600

#### Royal Free Hospital

Dr. Rabul Chodhari

#### R.Chodhari@nhs.net

Switchboard: 020 7794 0500

#### North Middlesex Hospital

Dr. Arvind Shah and Dr. Dhruy Rastogi

Switchboard: 020 8887 2000

#### University College Hospital

Dr. Eddie Chung

Switchboard: 020 3456 7890

#### Whittington Hospital

Dr. John Moreiras

John moreiras ir nhs net Switchboard: 020 7272 3070

#### 17. Nebulised drug doses

#### Salbutamel

2-5 yrs 2.5 mag > 5 yrs 5 mg

#### Ipratropium bromide

< 12 yrs 250 mcg 12-18 yrs 500 mcg

### 18. Prednisolone

•<12 yrs - 1mg/kg (max 40mg) daily

15. Normal Paediatric Values

Respiratory Rate at Rest:

2-5yrs 25-30 breaths/min

5-12yrs 20-25 breaths/min

>12yrs 15-20 breaths/min

Heart Rate:

2-5yrs 95-140 bpm

5-12yrs 80-120 bpm

>12yrs 60-100 bpm

Systolic Blood Pressure:

2-5vrs 80-100 mmbg

5-12yrs 90-110 mmhg

>12yrs 100-120 mmhg

- \*12-18 yrs 40mg daily
- \*Those already receiving maintenance steroid. give 2 mg/kg (max 60 mg)
- \*Repeat the dose in children who vomit and/or consider IV steroids
- •3 days is usually sufficient, but can be increased/tailored to the number of days necessary to bring about recovery.
- \*Weaning is unnecessary unless the course of steroids exceeds 14 days.

### 19. Predicted peak flows

or use with PEF meters EU/EN13826

Height m)	Height (fi)	Predicted EU PEFR (L/min	Height (m)	Height (ft)	Predicted EU PEFR (L/min)
0.85	2'9"	87	1.30	4'3"	212
0.90	2'11"	95	1.35	4'5"	233
0.95	3'1"	104	1.40	4.7"	254
1.00	3'3"	115	1.45	4'9"	276
1.05	3'5"	127	1.50	4'11"	299
1.10	3'7"	141	1.55	5'1"	323
1.15	3'9"	157	1.60	5'3"	346
1.20	3'11"	174	1.65	5"5"	370
1.25	4'1"	192	1.70	5'7"	393

### 20. Poor asthma control

- \*Frequent use of reliever
- \*Limiting daily activities
- ·Poor sleep, nocturnal cough
- \*Frequent exercise induced symptoms
- \*Frequent hospital admissions or GP/A+E
- \*Frequent courses of prednisolone
- \*Difficult Asthma: Difficult asthma is defined as persistent symptoms and/or frequent exacerbations despite treatment at step 4 or 5
- \*Asthma Control Test:

This guidance is written in the following context: This pathway was arrived at after careful consideration of the evidence available including but not exclusively using the BTS guidelines. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or carer. If you have any queries with regards to the information contained within this document, please contact Dr John Moreiras (john.moreiras@nhs.net)

Review date: December 2020

### **Appendix 3:**

### **Top 5 Tips for Asthma Management in Pharmacy**









### Tips for better asthma management

### Dear pharmacists,

Your help is kindly requested...

### The problem:

Asthma remains a common problem which affects 10% of children. The recent National Review of Asthma Deaths (NRAD) has shown that many children are at risk of life-threatening asthma as they are not receiving the appropriate care. Gold-standard asthma care requires a joined-up approach with all health care professionals taking up the challenge.

### How you can help:

Check Inhaler technique when dispensing new inhalers There is no point stepping up medication if it is not being delivered effectively. All children, regardless of their age, should be using an MDI with a spacer. For teenagers in secondary school it may be appropriate for them to have a breath activated device for their reliever in addition to their MDI and spacer

## Ask About Asthma Control

· Ratio of reliever to preventer medication

• Number of repeat reliever prescriptions (>6 per year should prompt a review by the GP)

Parents can fill out a patient assessment form called the Asthma Control Test (ACT), available on the Asthma UK or Healthy London Partnership website.

www.healthylondon.org/wp-content/uploads/2017/10/Asthma-control-test.pdf

Ask if the child has an Asthma Plan All children should have a personal asthma plan completed by their doctor. If they do not have one they should book an asthma review with their GP. Sample personal asthma plans are available on the Asthma UK website.

www.asthma.org.uk/globalassets/health-advice/resources/children/child-asthma-action-plan.pdf

Ask about Smoking Children are more likely to have respiratory problems and worse asthma control if parents smoke (even if outside). Offer "quit smoking - very brief advice" to parents. 15% of teenagers will smoke; do not forget to ask them and offer the same help.

www.smokefreeislington.nhs.uk/resource/paediatrics-stop-smoking-referral

Ask about Flu vaccine All children with asthma should receive the flu vaccine every year.



## **Appendix 4:**

### **Asthma Control Test (ACT)**







Patient's Name:		
	Today's Date:	

# Childhood Asthma Control Test for children 4 to 11 years

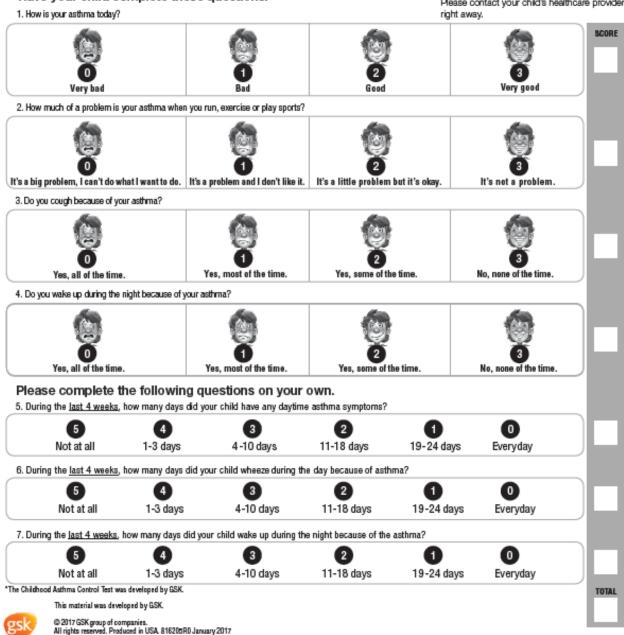
Parent or Guardian: The Childhood Asthma Control Test\* is a way to help your child's healthcare provider determine if your child's asthma symptoms are well controlled. Take this test with your child (ages 4 to 11), Share the results with your child's healthcare provider.

- Step 1: Have your child answer the first four questions (1 to 4). If your child needs help, you may help, but let your child choose the answer.
- Step 2: Answer the last three questions (5 to 7) on your own. Don't let your child's answers influence yours. There are no right or wrong answers.
- Step 3: Write the number of each answer in the score box to the right.
- Step 4: Add up each score box for the total.
- Step 5: Take the COMPLETED test to your child's healthcare provider to talk about your child's total score.

### Have your child complete these questions.

IF YOUR CHILD'S SCORE IS 19
OR LESS, Your child's asthma
symptoms may not be as well
controlled as they could be. No matter
what the score, bring this test to your
child's healthcare provider to talk
about your child's results.

NOTE: If your child's score is 12 or less, his or her asthma may be very poorly controlled. Please contact your child's healthcare provider right away.



## Appendix 5:

### **Difficult Asthma Service Referral Criteria**





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		REFERRAL TO	RBH DIFFICU	LT ASTHMA SERV	ICE	
Name _				Consultant		
Referrin	ıg Ho	spital		Asthma nurse		
DOB			]	Date of referral		
Referral	Guide	lines:				
		ese should serve as a guid lowever, for those that do, re			or patients who do not fulfill	
All child	ren wi	o meet the following crite	ria should be refer	red:		
• A	dmitte	d to PICU because of an as	thma attack			
• P	rescri	bed maintenance daily or alt	ernate day predniso	olone.		
• (	Jnder (	consideration for other biolog	ical agent such as	omalizumab		
Conside	r refer	ral for children who have j	oor control despi	te high intensity treatr	ment:	
High inter	nsity tr	eatment:				
		te dose ICS (BTS/SIGN gu one plus long acting beta ag		/day budesonide/beclor	methasone or ≥500mcg/day	
Poor conf	trol (pl	ease send copies of dischar	ge summaries from	the past year if available	le)	
• P	ersist	ent chronic symptoms (most	days for 3 months)	or		
• A	ACT or cACT <20 or					
• S	<ul> <li>Severe exacerbations (≥ 2/ year requiring hospital admission or OCS) or</li> </ul>					
• F	<ul> <li>Persistent airflow limitation (FEV1&lt;80% post bronchodilator) or</li> </ul>					
• F	rescri	otion of ≥6 salbutamol inhale	rs in the past year			
Other co	nside	rations				
• 0	Diagno	stic uncertainty				
• 0	Complex psychosocial issues (including safe guarding)					
• 0	Dysfunctional breathing / exercise induced breathlessness					
Enrolment in a clinical study						
Prior to r	referra	I the following should be	ssessed (if possil	ble):		
Please p	rovide	further details overleaf or	include in referra	l letter:		
1. B	Basis o	f asthma diagnosis				
	0	Documented wheeze by he	althcare profession	al		
	0	Evidence of airflow obstruc	ion (FEV <sub>1</sub> /FVC <70	)% or LLN)		
	0	Elevated exhaled nitric oxid	e (≥35ppb)		·····	
	0	Documented bronchodilato	reversibility (≥12%	b)	·····	
	0	Airway hyper-responsivene	ss (confirmed by di	rect or indirect challeng	e)	
	0	Spontaneous variation in F	EV₁ (≥12%) or peak	flow (≥20%) in the pas	t year	
	0	Diagnosis not confirmed				
2. Ir	nhaler	technique checked			Ō	
3. A	Allergy testing and identification of triggers					

Nov 2017\_Fleming

**RBH Referral form** 

## Appendix 5:

### **Difficult Asthma Service Referral Criteria**





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## Further details if available (please complete the following or include in referral letter) Current medications

	Name	Dose			
Exacerbat	tions				
	ımber of hospital admissions in past year				
• Nu	umber requiring oxygen				
• Nu	umber requiring iv treatment				
• Nu	imber of courses of OCS in past year				
Assessm					
Allergy te	sting (SPTs, slgEs):				
Triggerou					
Triggers:					
Advice given:					
Prescription check					
ICS % uptake in past 12 months					
Number of SABA inhalers collected in past 12 months:					
Other relevant details					

**RBH Referral form** 

May 2016\_Fleming

### **References & Links:**





### **Hyperlinks**

### **Pharmacy**

Healthy London Partnership Asthma Toolkit: Pharmacy, Medication Use Reviews www.healthylondon.org/hlp-archive/sites/default/files/u102092/019988%20-%20Asthma%20Toolkit%20Pharmacy%201.1-RB.pdf

### Schools

Healthy London Partnership: Asthma Friendly Schools www.healthylondon.org/resource/london-asthma-toolkit/schools/asthma-friendly-schools/

### **Personal Asthma Action Plans**

Monkey Wellbeing Asthma Plan www.monkeywellbeing.com/wp-content/uploads/2014/09/asthma-plan-v3.pdf

Asthma UK: Your Child's Action Plan www.asthma.org.uk/advice/child/manage/action-plan/

### **Asthma Diagnosis**

BTS / SIGN Guideline on the Management of Asthma, 2016 www.brit-thoracic.org.uk/document-library/clinical-information/asthma/btssign-asthma-guideline-2016/

### **Smoking Advice**

National Centre for Smoking Cessation and Training: Very brief advice <a href="https://www.ncsct.co.uk/publication\_very-brief-advice.php">www.ncsct.co.uk/publication\_very-brief-advice.php</a>

### References

- Asthma Quality Standard, Feb 2013, Updated Nov 2017, NICE
- BTS / SIGN Guideline on the Management of Asthma, 2016
- Combined Care Pathway for Asthma and/or Rhinitis, RCPCH, 2011
- London Asthma Standards for Children and Young People, Healthy London Partnership, 2016
- National Review of Asthma Deaths (NRAD), 2014