Guideline for the management of Suspected Anaphylaxis in Children (under 16 years)



NHS University Hospitals of Leicester

Trust ref: B18/2019

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1. Introduction and who the guideline applies to

This document sets out the guidelines for the management of anaphylaxis in children based on the NICE guidelines, Resuscitation guidelines and European Association of Allergy & Clinical Immunology (EAACI) guidelines.

Usually anaphylaxis will be diagnosed and managed within the Emergency Department at LRI or Childrens Short Stay Unit (CSSU). However, occasionally patients develop anaphylaxis as an inpatient and this could occur in any ward area

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within UHL. This guideline applies to all Children within LRI with suspected anaphylaxis and to all Healthcare Professionals who are responsible for the clinical management and / or care of these patients.

1.1 Key Points

- 1. If in doubt, treat for anaphylaxis. An IM dose of adrenaline is safer than untreated anaphylaxis.
- 2. The first line treatment for anaphylaxis is **IM adrenaline** NOT salbutamol and antihistamines.
- 3. Anaphylaxis is potentially life-threatening, maintain an ABC approach, call for senior help early and reassess regularly.

Anaphylaxis can be difficult to diagnose but there is good evidence that the early recognition and treatment of anaphylaxis has a better outcome. It is expected that all registered staff working in the Children's Emergency Department (ED), CSSU and Children's wards have a responsibility to understand the management of anaphylaxis and up-date their knowledge. They will be supported by the children's allergy team.

All clinical staff working in any location within UHL would be expected to seek senior advice if they were presented with a patient with anaphylaxis and they did not feel adequately trained to manage the clinical case.

1.2 Related documents:

Basic Life Support or Choking UHL Childrens Hospital Guideline ref: C2/2016 Food and Drug Challenge UHL Childrens Nursing Guideline ref: C10/2010 Latex Allergy in Patients and Staff UHL Policy ref: B29/2005

2. Anaphylaxis - Definition

Anaphylaxis is a severe, life-threatening, systemic hypersensitivity reaction. It is characterised by rapidly developing, life-threatening problems involving the airway (pharyngeal or laryngeal oedema) and/or breathing (bronchospasm and/or tachypnoea) and/or circulation (hypotension and/or tachycardia). In most cases, there are associated skin and mucosal changes.

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GUIDELINES 202

Refractory anaphylaxis

No improvement in respiratory or cardiovascular symptoms

Nebulised adrenatine (SmL of Tmg/mL) Partial upper airway obstruction/stridor:

A = Airway



Intravenous adrenaline for anaphylaxis to be given only by experienced specialists in an appropriate setting

Consider prolonged resuscitation/extracorporeal CPR

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2.1 Establishing a Diagnosis

Anaphylaxis is characterised by:

- Sudden onset and rapid progression of symptoms.
- <u>A</u>irway and/or <u>B</u>reathing and/or <u>C</u>irculation problems.
- Usually, skin and/or mucosal changes (flushing, urticaria, angioedema)

The diagnosis is supported if a patient has been exposed to an allergen known to affect them. However, in up to 30% of cases there may be no obvious trigger.

Remember:

- Skin or mucosal changes *alone* are not a sign of anaphylaxis.
- Skin and mucosal changes can be subtle or absent in 10-20% of reactions (e.g. some patients present initially with only bronchospasm or hypotension)

Gastrointestinal symptoms (e.g. nausea, abdominal pain, vomiting) in the absence of **A**irway and/or **B**reathing and/or <u>Circulation problems do not usually indicate</u> <u>anaphylaxis. Abdominal pain and vomiting can be symptoms of anaphylaxis due to an insect sting or bite.</u>

Remember anaphylaxis lies along a spectrum of severity in terms of allergic symptoms.

If in doubt treat anaphylaxis with IM adrenaline and seek help.

2.2 Differential Diagnosis

Following an ABCDE approach will help with treating the differential diagnoses. In all of the circumstances below, IM adrenaline is unlikely to cause harm and might be clinically useful

Life-threatening conditions:

- Sometimes anaphylaxis can present with symptoms and signs that are very similar to life-threatening asthma-this is most common in children
- Hypotension is a late sign in children
- Seek expert help early if there are any doubts about the diagnosis and treatment

Other conditions which can mimic anaphylaxis (but do not respond to adrenaline)

- Inducible laryngeal obstruction (ILO, formerly known as vocal cord dysfunction)
- ACE inhibitor induced angioedema

Non-life threatening conditions (these usually respond to simple measures)

- Faint (vasovagal episode)
- Panic attack
- Breath-holding episode in a child
- Spontaneous (non-allergic) urticaria or angioedema

2.3 Treatment of anaphylaxis

Please refer to algorithm 1 above (page 3).

Use an ABCDE approach to recognise and treat anaphylaxis. Treat life-threatening problems as you find them.

Patient positioning

All children should be placed in a comfortable position. The following factors should be considered:

- Fatality can occur within minutes if a patient stands, walks or sits up suddenly. Patients must NOT walk or stand during acute reactions. Use caution when transferring children who have been stabilised.
- Patients with Airway and Breathing problems may prefer to be in a semirecumbent position, as this will make breathing easier.
- Lying flat, with or without leg elevation, is helpful for patients with low blood pressure (Circulation problem)

a. Remove the trigger if possible

- Stop any drug suspected of causing anaphylaxis (e.g. drug infusion, blood products)
- Remove the stinger after a bee sting
- Do not try to make a child vomit
- Do not delay definitive treatment if removing the trigger is not feasible.

b. Adrenaline

Universally recommended as drug of choice in treatment of anaphylaxis

Potent catecholamine with α and β - adrenergic action; also acts as bronchodilator.

Use IM adrenaline 1mg/ml [1:1000] adrenaline			
Age	Dose	Volume	
Child>12yrs	500 micrograms IM	(0.5ml of 1mg/ml adrenaline)	
6-12 years (or small child >12 years/pre pubertal	300 micrograms IM	(0.3ml)	
6 months – 6 years	150 micrograms IM	(0.15ml)	
<6 months	100-150 micrograms	(0.1 to 0.15ml)	

Table 1: Adrenaline dosage and administration recommenda	tions:
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Adrenaline is located in the resus trolleys. Allergy 'Grab boxes' are available in the Emergency Department and can be utilised in that department.

- Use a blue 23 gauge needle which is 25mm.
- In large children over 12 years old, a longer needle may be needed (green 21 gauge 38mm).
- In small infants an orange 25 gauge 16mm needle can be used. •

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Please use adrenaline auto-injector if you feel giving it by syringe and needle will delay adrenaline administration. If subsequent doses needed use syringe and needle.

Repeat the IM adrenaline dose after 5 minutes if there is no improvement in the patient's condition. Some guidelines recommend that further doses are given in the contralateral thigh.

If further doses of adrenaline are needed use an adrenaline ampoule by syringe and needle.

If there is no improvement in breathing or circulation problems despite 2 doses of IM adrenaline using a needle and syringe (or 1 dose of adrenaline via adrenaline auto-injector followed by 2 doses of IM adrenaline using a needle and syringe), follow the algorithm 2 for refractory anaphylaxis.

IM injection into vastus lateralis muscle (mid lateral thigh) is more effective than IM injection into deltoid muscle, or subcutaneous injection. Be careful with auto-injector triggers, they are very sensitive.

Continue to repeat IM adrenaline every 5 minutes while life-threatening respiratory or cardiovascular features persist until an IV infusion can be started as per refractory anaphylaxis (see below)

Table 2: Peripheral IV adrenaline infusion for refractory anaphylaxis

Peripheral IV adrenaline infusion for refractory anaphylaxis

Preparation

- Continuous monitoring and observation are mandatory:
 - ECG, pulse oximetry, non-invasive BP at least every 5 minutes
- Mix 1mg (1ml of 1mg/ml [1:1000] adrenaline in 100ml 0.9% sodium chloride and connect using an infusion pump via a dedicated line.
 - Do not "piggy back" on to another line unless using an anti-reflux valve. 0
- Do not infuse on the same side as a BP cuff, as BP measurements will interfere with the infusion and risk extravastion injury.

Initiation and adjustment

- In children and adults start at 0.5 -1.0ml/kg/h depending on severity:
 - Moderate severity 0.5 ml/kg/h (~0.1 micrograms/kg/min)
 - Severe (hypotensive or hypoxic) 1ml/kg/h
- **Titrate** up or down according to response, aiming for the lowest effective rate
 - Steady state is reached 5-10 min after a change in infusion rate.
 - Monitor infusion site regularly to ensure patency of cannula 0
- Tachycardia, tremor, pallor with a normal or raised BP may indicate excessive adrenaline treatment: reduce the infusion rate (or stop infusion if severe)
- If refractory to adrenaline infusion, seek urgent further expert help. Patients will require central venous access for prolonged infusion.

WEANING

- As symptoms improve, reduce the infusion, aiming for 50% of the starting rate.
- One hour after resolution of all symptoms and signs, reduce the infusion rate progressively over 30 minutes and then stop; monitor closely for recurrance and restart if necessary.

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c. Oxygen (give as soon as available)

Initially give the highest concentration of oxygen possible, using a mask with an oxygen reservoir. As soon as is feasible, adjust the inspired oxygen concentration to achieve an oxygen saturation of 94-98% (in patients at risk of hypercaphic respiratory failure, consider a target of 88-92%)

d. Intravenous fluids

In the presence of hypotension/shock, or poor response to an initial dose of adrenaline:

Secure IV access and give a rapid IV fluid bolus (10ml/kg) and monitor the response. Use non-glucose-containing crystalloids such as 0.9% sodium chloride or Hartmann's. Give further fluid as necessary. A large amount of fluid may be required. Use nonglucose-containing crystalloids (e.g. Hartmann's or Plasma-Lyte rather than 0.9% sodium chloride to reduce the risk of hyperchloraemia). Give fluids via the IO route if IV access is delayed.

e. Antihistamines

Antihistamines are not recommended as part of the initial emergency treatment for anaphylaxis. They have no role in treating respiratory or cardiovascular symptoms of anaphylaxis.

Antihistamines can be used to treat skin symptoms that often occur as part of allergic reactions including anaphylaxis. Their use must not delay treatment of respiratory or cardiovascular symptoms of anaphylaxis.

Non-sedating oral antihistamines (e.g. Cetirizine) should be used in preference to Chlorphenamine which can cause sedation. If oral route is not possible, Chlorphenamine can be given by IM and IV injection. Please note it can cause hypotension when given by rapid IV bolus.

Age	Dose of oral cetirizine		
< 2 years	250 micrograms/kg		
2 – 6 years	5 mg		
6 – 11 years	10 mg		
12+ years	10 – 20 mg		
Adults	10 – 20 mg		

Table 3: Recommended doses for oral cetirizine for an allergic reaction (as recommended by Resuscitation Council UK May 2021)

f. Steroids

The routine use of corticosteroids to treat anaphylaxis is not advised.

Consider giving steroids after initial resuscitation for refractory reactions or ongoing asthma/shock. Steroids must not be given preferentially to adrenaline.

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g. Other Drugs

Bronchodilators

Individuals presenting with asthma in the context of possible exposure to a known allergen (so that anaphylaxis is a differential diagnosis) should receive treatment with IM adrenaline. In addition, to IM adrenaline bronchodilators (salbutamol and/or ipratropium) can be used. Bronchodilators should not be used as an alternative to a further parenteral treatment with adrenaline.

Nebulised Adrenaline

Nebulised adrenaline may be effective as an adjunct to treat upper airways obstruction caused by laryngeal oedema, but only after treatment with IM (or IV) adrenaline and NOT as an alternative.

Recommended doses are 5ml of 1mg/ml (1:1000) adrenaline

2.4 Investigations in Children with suspected anaphylaxis

Mast cell tryptase should be measured in all patients with suspected anaphylaxis where the diagnosis is uncertain.

The time of onset of anaphylaxis is the time when symptoms were first noticed. It is important that this time is recorded accurately.

- a. Minimum: one sample, ideally within 2hrs and no later than 4 hrs after onset of symptoms
- b. Ideally: take 3 samples
 - 1. An initial sample as soon as feasible
 - 2. A second sample 1-2hrs (but no later than 4hrs) after onset of symptoms
 - 3. A third sample at least 24hrs after complete resolution, or in convalescence (for example, at a follow up allergy clinic)

2.5 Assessment after the suspected anaphylactic reaction

Document the acute clinical features of the suspected anaphylactic reaction (rapidly developing, life-threatening problems involving the airway and/or breathing and/or circulation and, in most cases, associated skin and mucosal changes).

Record the time of onset of the reaction.

Record the circumstances immediately before the onset of symptoms to help to identify the possible trigger.

Common causes of anaphylaxis in children (in order of frequency):

- 1. Food
- 2. Drugs
- 3. Wasp and Bee Venom
- 4. Latex
- 5. Allergen immunotherapy
- 6. Exercise: Food-specific exercise, post-prandial (non-food specific)
- 7. Vaccinations
- 8. Idiopathic

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2.6 Biphasic Reaction

After complete recovery of anaphylaxis, a recurrence of symptoms can occur within 72 hours with no further exposure to the allergen. It is managed in the same way as anaphylaxis. However, most commonly this occurs within 8-10 hours. Therefore it is important to explain this to the patient and carers, although stress that this is uncommon.

2.7 Disposition and follow-up

Children who have had emergency treatment for suspected anaphylaxis should be admitted to the Children's Short Stay Unit (CSSU) under the care of emergency department or paediatric medical team. **Please discuss all cases with the allergy consultant on-call.** Occasionally children will need to be admitted to the children's ward under the care of the paediatric medical team.

• Remember to re-supply children who have used their adrenaline auto-injector.

Good response (within 5- 10 minutes) to a single dose of adrenaline given within 30 minutes of onset of reaction2 doses of IM adrenaline needed to treat reaction*• Severe reaction requiri >2 doses of adrenaline • Patient has severe asthma or reaction involved severe respiratory compromise	Consider fast-track discharge (after 2 hours observation from resolution of anaphylaxis) if:	Minimum 6 hours observation after resolution of symptoms recommended if:	Observation for at least 12 hours following resolution of symptoms if any one of the following:
Andreactionrespiratory compromiseComplete resolution of symptomsPossibility of continuing absorption of allergen e.g. slow release medications.AndPatient already has unused adrenaline auto- injectors and has been trained how to use themPatient alreas where access to emergency care is difficult.AndThere is adequate supervision following dischargeIn all cases, discharge must comply with https://www.nice.org.uk/guidance/cg134	Good response (within 5- 10 minutes) to a single dose of adrenaline given within 30 minutes of onset of reaction And Complete resolution of symptoms And The patient already has unused adrenaline auto- injectors and has been trained how to use them And There is adequate supervision following discharge In all cases, discharge mus	2 doses of IM adrenaline needed to treat reaction* Or Previous biphasic reaction	 Severe reaction requiring >2 doses of adrenaline. Patient has severe asthma or reaction involved severe respiratory compromise. Possibility of continuing absorption of allergen e.g. slow release medications. Patient presents late at night, or may not be able to respond to deterioration. Patients in areas where access to emergency care is difficult.

Table 4: Discharge criteria

*It may be reasonable for some patients to be discharged after 2 hours despite needing two doses of IM adrenaline, e.g. following a supervised allergy challenge in a specialist setting.

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2.8 Discharge checklist

- Please contact the Allergy consultant on-call by telephone after emergency treatment for suspected anaphylaxis to discuss a management plan. This should be followed by an email to <u>childrensallergy@uhl-tr.nhs.uk</u>. Please state patient details and description of event so that a follow up appointment can be made. In addition please inform the GP that this has occurred.
- 2. Record allergy on NerveCentre, in the child's health records and hospital notes.
- 3. Offer patient (or, as appropriate, their parent and/or carer) an appropriate adrenaline auto-injector as an interim measure before the specialist allergy service appointment (unless it is not recommended by the Allergy Consultant)
- 4. Provide a written emergency action plan, which includes information about anaphylaxis and the signs and symptoms of an allergic reaction. All brands of adrenaline auto-injector trainers (Jext / EpiPen) and written emergency action plans are available in allergy box in Children's ED and CSSU. Example emergency plans are attached to this guideline but can be accessed via the anaphylaxis box (preferred option) or BSACI website <u>https://www.bsaci.org/about/download-paediatric-allergy-action-plans</u>. Please give the patient a dummy adrenaline device and train them how to use it.
- 5. Please prescribe the following:
 - Adrenaline auto-injector (specify which device Jext / EpiPen): Please prescribe at least 2. One for school/nursery and one for elsewhere.
- Generally the allergy team prescribe Jext or EpiPen
 - o 6 months-6yrs: 0.15mg adrenaline dose (EpiPen Junior or Jext 150)
 - >6yr: 0.3mg adrenaline dose (EpiPen or Jext 300)
 - >12yrs: 0.3mg adrenaline dose or 0.5mg dose (EpiPen or Jext 300)
 - Antihistamine: Non-sedating antihistamine to have as part of written emergency action plan. Cetirizine should be used as the antihistamine of choice.
- 6. Provide information of the risk of a biphasic reaction and advice about avoiding suspected trigger (if known).
- 7. Provide anaphylaxis information leaflet.

3. Education and Training

None

4. Supporting References

NICE Clinical Guideline 2011- updated August 2020 (CG134) – Anaphylaxis: assessment to confirm an anaphylactic episode and the decision to refer after emergency treatment for a suspected anaphylactic episode. <u>https://www.nice.org.uk/guidance/cg134</u>

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Resuscitation Council (UK) 2021. Emergency treatment of anaphylactic reactions: Guidelines for healthcare providers. <u>https://www.resus.org.uk/library/additional-</u> guidance/guidance-anaphylaxis/emergency-treatment

EAACI (European Academy of Allergy and Clinical Immunology) – Food Allergy and Anaphylaxis Guidelines 2014.

5. Key Words

Adrenaline, Allergy, Anaphylaxis, Angioedema Auto injector, Urticaria

The Trust recognises the diversity of the local community it serves. Our aim therefore is to provide a safe environment free from discrimination and treat all individuals fairly with dignity and appropriately according to their needs.

As part of its development, this policy and its impact on equality have been reviewed and no detriment was identified.

Contact and review details			
Guideline Lead (Name and Title) G. Stiefel - Paediatric Allergy Consultant G. Lewis – Consultant in Paediatric Emergency Medicine	Executive Lead Chief Medical officer		
Details of Changes made during review: V5 Discharge injector prescribing updated Updated contact list for allergy consultant on-call			

Appendix 1: Allergy Advice

ALLERGY ON-CALL

Children's Allergy Consultant telephone On-call for any allergy advice and all allergy referrals

> 7 days a week 08h00 to 24h00

On-call telephone number

07960871147

Dr David Luyt **Dr Gary Stiefel Dr Briony Stone** Dr Maria Raptaki

Please discuss with allergy consultant for all referrals followed by email (If out of above hours just email)

childrensallergy@uhl-tr.nhs.uk

ADRENALINE AUTOINJECTOR TRAINING

Also available (where possible) during working week (Monday - Friday 9 - 5)

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ALLERGY ACTION PLAN RCPCH Campaign bsacı AllergyUK This child has the following allergies: Name: Watch for signs of ANAPHYLAXIS (life-threatening allergic reaction) Anaphylaxis may occur without skin symptoms: ALWAYS consider anaphylaxis DOB: in someone with known food allergy who has SUDDEN BREATHING DIFFICULTY **A** AIRWAY C CONSCIOUSNESS **B** BREATHING Persistent cough Difficult or Persistent dizziness noisy breathing Hoarse voice Pale or floppy Photo Suddenly sleepy Difficulty swallowing Wheeze or persistent cough Collapse/unconscious Swollen tongue IF ANY ONE (OR MORE) OF THESE SIGNS ABOVE ARE PRESENT: **1** Lie child flat with legs raised (if breathing is difficult, allow child to sit) **S** 🗸 T Mild/moderate reaction: 2 Use Adrenaline autoinjector <u>without delay</u> (eg. Jext®) (Dose: . 0.3 . ma) Swollen lips, face or eyes Itchy/tingling mouth Dial 999 for ambulance and say ANAPHYLAXIS ("ANA-FIL-AX-IS") Hives or itchy skin rash *** IF IN DOUBT, GIVE ADRENALINE *** Abdominal pain or vomiting Sudden change in behaviour AFTER GIVING ADRENALINE: Action to take: 1. Stay with child until ambulance arrives, do <u>NOT</u> stand child up Stay with the child, call for help 2. Commence CPR if there are no signs of life if necessary 3. Phone parent/emergency contact · Locate adrenaline autoinjector(s) 4. If no improvement after 5 minutes, give a further adrenaline dose using a second Give antihistamine: autoinjectilable device, if available. (If vomited can repeat dose) You can dial 999 from any phone, even if there is no credit left on a mobile. Medical observation in hospital Phone parent/emergency contact is recommended after anaphylaxis. **Emergency contact details:** How to give Jext® Additional instructions: If wheezy, GIVE ADRENALINE FIRST, then asthma reliever (blue puffer) 1) Name: via spacer Form fist around PLACE BLACK END Jext[®] and PULL against outer thigh 2) Name: OFF YELLOW SAFETY CAP (with or without clothing) **L** Parental consent: I hereby authorise school staff to administer the medicines listed on this plan, including a 'spare' back-up adrenaline autoinjector (AAI) if available, in accordance with Department of Health Guidance on the use of AAIs in schools PUSH DOWN HARD REMOVE Jext® Massage injection site for 10 seconds until a click is heard or felt and hold in place for 10 seconds Signed: This is a medical document that can only be completed by the child's healthcare professional. It must not be altered without their permission. This document provides medical authorisation for schools to administer a 'spare' back-up adrenaline autoinjector if needed, as permitted by Print name: the Human Med icines (Amendment) Regulations 2017, During travel, adrenaline auto-injector devices must be carried in hand-luggage or on the person, and NOT in the luggage hold. This action plan and authorisation to travel with emergency medications has been prepared by: Date: Sign & print name: For more information about managing anaphylaxis in schools and "spare' Leicster Children's Allergy Service Hospital/Clinic: back-up adrenaline autoinjectors, visit: O116 258 6694 Date: sparepensinschools.uk © The British Society for Allergy & Clinical Immunology 6/2018

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bsaci Improving allery care ALLERGY ACTION PLAN

RECECH Registicalities and Chald Health Catego the may in Children's Health Catego the may in Children's Health

This child has the following allergies:

Nomo					
Name.		Watch for signs of ANAPHYLAXIS			
		(life-threatening allergic reaction)			
DOB:		Anaphylaxis may occur without skin symptoms: ALWAYS consider anaphylaxis in someone with known food allergy who has SUDDEN BREATHING DIFFICULTY			
	Photo	A AIRV • Pers • Hoa • Diffi • Swo	NAY sistent cough rse voice culty swallowing illen tongue	BREATHING • Difficult or noisy breathing • Wheeze or persistent cough	CONSCIOUSNESS • Persistent dizziness • Pale or floppy • Suddenly sleepy • Collapse/unconscious
		IF ANY	ONE (OR MORE) child flat with legs rai	OF THESE SIGNS A sed (if breathing is diffic	BOVE ARE PRESENT: ult, allow child to sit)
 Mild/moderate reaction: Swollen lips, face or eyes Itchy/tingling mouth Hives or itchy skin rash Abdominal pain or vomiting Sudden change in behaviour Action to take: Stay with the child, call for help if necessary Locate adrenaline autoinjector(s) Give antihistamine: Phone parent/emergency contact Curvamited, can repeat doese You can dial 999 form any phone, even if there is no credit left on a mobile. Medical observation in hospital is recommended after anaphylaxis. 					
Emergency contact details: How to give EniPen® Additional instructions:			nal instructions:		
1) Name:			PULL OFF BLUE SA CAP and grasp Epi Remember: "blue to orange to the thigh	AFETY If wheezy, Pen. then asthr	GIVE ADRENALINE FIRST, na reliever (blue puffer) via spacer
2) Name:		2	Hold leg still and P ORANGE END agai mid-outer thigh "w or without clothing	LACE nst iith J	
Parental consent: I he administer the medicines liste back-up adrenaline autoinject with Department of Health Gui	ereby authorise school staff to ed on this plan, including a 'spare' or (AAI) if available, in accordance dance on the use of AAIs in schools.		PUSH DOWN HARI a click is heard or 1 hold in place for 3	D until ielt and seconds.	
Signed:		-2002	Aemove EpiPen.		
Print name:					
LPARE					
For more information a anaphylaxis in schools back-up adrenaline au sparepensinschools.uk	about managing s and "spare" ttoinjectors, visit: t	Sign & print name: Hospital/Clinic: Leicester Children's Allergy Service 0116 258 6694 Date:			