

Scenario

SUMMARY

Setting: Emergency Department

Clinical focus: Type 1 diabetic child, hypoglycaemia

Situational factors: During GCSEs, poor oral intake leading to hypoglycaemia

Learning Objectives:

Initial structured A to E assessment

Recognition of hypoglycaemia and underlying diabetes

Treatment of hypoglycaemia

STAGE DESIGN /PROPS / TECHNICAL SET UP

Sim man set up, if possible put novopen / BM machine in trouser pocket.

BRIEFING TO PARTICIPANTS: Scene

15 year old Karl is brought in by paramedics after falling off his chair during his GCSE maths exam this morning. He was found to be less responsive by teachers and 'slurring his words' when lying on the floor. They called an ambulance who have brought him to AE. They feel he is confused and 'may have taken something.'

PRESENTATON	EXPECTED RESPONSE	ACTORS NOTES
		Paramedic: Helpful
		i didifiedic. Helpfol
Examination: A: Patent B: RR 16, Sats 99% in air C: HR SR 80, CRT 2 sec, BP 120/80 D: GCS V on AVPU E: Temp 37'C	ABCD approach Specifically: Thorough A to E assessment Recognises hypoglycaemia and gives hypostop Explores history further – type 1 diabetes	If they make attempt to call mum – to be answered by faculty and explain he is type 1 diabetic and missed breakfast
Blood sugar 2		
Progress – Improves:	Mum arrives – history from	
BM improves to 5 Becomes more responsive	mum and Karl. Liaise with paediatric diabetic team,	
Progress – Deteriorates: Becomes less responsive, BM falls further – seizure		Remain helpful
DEBRIEF	CLINICAL	CRM
As required based on identified	Discussion of treatment	
issues/frames	options for hypoglycaemia in diabetic teenager.	

EMERGENCY DEPT ATTENDANCE RECORD

MHS University Hospitals Of LEICESTER NHS Trust

Leicester Royal Infirmary UHL Trust

Printed Copy No. 1

LEICESTER



PATIENT IDENTIFIER

NHS No Hospital No S1234567

Last Name

HYDRATE

Forename

KARL, BEN

Date Of Birth

Age: 15YR

Sex

MALE

Ethnic Category

WHITE

Address

222 QUIET DRIVE

LEICESTER

LE1 1CH

(Home)

1234567

(Work)

0116 1234567

(Mobile)

Occ/School

NONE

Interpreter Required No

Language

Home - Own

NEXT OF KIN/EMERGENCY CONTACT

Name

SU HYDRATE

Relationship

MOTHER

Address

223 QUIET DRIVE

LEICESTER LE1 2CH

(Home)

0116 1234567

(Work)

0116 1234567

Emergency Contact



REGISTERED GP

Name

SUGAR DROP SURGERY

Surgery

123 CENTRAL ROAD

LEICESTER



0116 1234567

TRIAGE

ED Arrival

Triage Assessment

Complaint

Triage Nurse

Nurse Assessment

Triage Category

1

CLINICAL ALERTS/ALLERGIES

Allergies

NONE

Clinical Alert

NONE

ATTENDANCE HISTORY

Date

Discharge Diagnosis DKA 14.6.12



Sample No.: S1234567

Patient ID:

Name: Karl Ben Hydrate Comments:

Rack: Ward:

Tube:

12:34:35

Dr.:

Sex:

Birth: Inst.ID:XS-800i^65614

WBC	8.2	[10^9/L]	
RBC	2.08	[10 ¹² /L]	
HGB	145	[g/L]	
HCT	0.184	[Ratio]	
MCV	88.0	[fL]	
MCH	29.8	[pg]	
MCHC	339	[g/L]	
PLT	140	[10 ⁹ /L]	
RDW-SD	42.4	[fL]	
RDW-CV	14.0	[%]	
PDW	11.3	[fL]	
MPV	10.5	[fL]	
P-LCR	27.7	[%]	
PCT	0.18	[%]	
NEUT	5.2	[10 ⁹ /L]	65.5
LYMPH	2.75	[10 ⁹ /L]	15.6 *
MONO	1.58	[10 ⁹ /L]	9.0 *
EO	0.04	[10 ⁹ /L]	0.2 *
BASO	0.03	[10 ⁹ /L]	0.2

Actions required

- □ Normal□ Abnormal but no immediate danger
- ☐ Significantly abnormal results *patient in imminent danger*

document STAT actions taken

			 3100000
NPT samples processed by			
processed by			
p. 0000000 0 j			





Measurement report
2:52
Serial number: 19241
Instrument ID: LRI A&E 1
Operator ID: blood
Leicester Royal Infirmary A&E

Pat. ID Last name First name Blood type FIO ₂		nvurate						
		Venous 0.21						
	 pH	7.34	(-)			[7.350 -	7.450]
	PCO ₂	5.0	kPa]	4.27 -	6.40]
	PO ₂	12	kPa ()	*		[11.07 -	14.40]
	BE	-2	mmol/L					
	cHCO ₃ ·	20	mmol/L					
	Na⁺	137	mmol/L			[136.0 -	145.0]
	K⁺	4.0	mmol/L			[3.50 -	5.10]
	Ca ²⁺	1.3	mmol/L			[1.150 -	1.330]
	CI-	106	mmol/L			[98.0 -	107.0]
	Glu	2.0	ımol/L			[3.5 -	,5.3]
	Lac	1.0	mmol/L			[0.4 -	0.8]
	Urea	5.5	mmol/L		•	[2.5 -	6.4]
	AG	18.2	mmol/L					4
	Osm	288	mOsm/kg					
	Hct	45				[36.0 -	53.0]
	Hct(c)	45	%					
	tHb	145	g/L			[115.0 -	178.0]
	SO ₂	98	% 1			[94.0 -	98.0]
	COHb	1	%			[0.0 -	3.0
	MetHb	1.4	%			[0.0 -	1.5
	HHb	2.5	%]	0.0 -	2.9
	O ₂ Hb	38	%			[94.0 -	98.0
	Bili	Out	of range (-)			Ĺ	51-	850