

EMS-ECHO CASE presentation

24th session

By Dr. Lyavala Musilim CUFH-Naguru



On 4th/11/2022 at 11:42am was called by nurse to pediatric resuscitation room to attend to EE an 11 month old male from Naguru Go Down with reduced LOC and DIB.

Action.

- Danger & response . Child was in a safe environment however responsive to pain, PEARL
- Airway. Chin lift done, no visible airway obstructions, neck maintained in neutral position
- 3. **Breathing**. Tachypneic noisy acidotic breathing 44bpm, no wheeze, equal but reduced airway entry with transmitted breath sounds no crackles.

SPO2 85%. Intervention - Neck stabilised in neutral position

-FF0 2L/min via nasal prongs SPO2 maintained at 94% breathing less noisy.

4. Circulation. Cold extremities, c.refill >3s, pulse 170 bpm tachycardic & thready BP 65/40mmHg, No physical signs of haemorrhage.

Intervention. Child was then put into recovery position, covered with sheets, nurse asked to prepare for IV access, consultant informed.

- -Upon asking mother on events, she reported that child had about 4 loose non bloody motions daily for 5 days, vomiting and fever. 1 hr h/o reduced LOC and fast breathing, no cough despite taking coartem, fragyl and Panadol for 2 days without any tests. No known allergies nor chronic illnesses.
- -Last meal 3 hours prior at breakfast of milk tea interrupted by vomiting.

Head to toe exam

-Critically ill, lethargic, sunken eyes, skin pinch returns after 2 seconds, mild conjunctival pallor, no jaundice, cyanosis, clubbing, edema nor lymphadenopathy, well nourished. T 34.2C hypothermic, wt 8.5kg, MUAC 14cm, length 71.3cm

P/A-normal fullness ,periumbilical tenderness, no palpable organomegalies. Digital RE not done.

Impression: Hypovolemic shock 2 Severe dehydration 2AWD Action

- -2 Iv lines already inserted and blood sample taken off for investigations CBC,BS for mps, RBS, Blood grouping, LFTS & RFTS with serum electrolytes
- -Immediately IV R/L 170mls over 30 minutes
- -IV D10 43mls given

CHINA-UGANDA FRIENDSHIP HOSPITAL LABORATORY-NAGURU P.O BOX 20145, KAMAPALA JGANDA

HAEMATOLOGY CBC REPORT FROM SYSMEX ML-550 SN: 19711

Ranges

(1.50 - 7.00)

(1.00 - 3.70)

(0.00 - 0.70)

(0.00 - 0.40)

(0.00 - 0.10)

(0.00 - 7.00)

(2.50 - 5.50)

(8.0 - 17.0)

(26.0 - 50.0)

(86.0 - 110.0)

26.0 - 38.0)

31.0 - 37.0)

(37.0 - 54.0)

(11.0 - 16.0)

(9.0 - 17.0)

(9.0 - 13.0)

(13.0 - 43.0)

(0.17 - 0.35)

(0.0000 - 0.9999)

0.0 - 100.0)

0.0 - 100.0)

0.0 - 100.0)

0.0 - 100.0)

(0.0 - 99.9)

13.15 [10^3/uL] (3.00 - 15.00)

840 + [10^3/uL] (50 - 400)

Sample Patient Name: Birth:

WBC NEUT

LYMPH

MONO

BASO

EO

IG

RBC

HGB

HCT

MCV

MCH

MCHC

RDW-SD

RDW-CV

PLT

PDW

MPV

PCT

RET

IRF

LFR

MFR

HFR

RET-He

P-LCR

Results

8.23 * [10³/uL]

3.01 * [10^3/uL]

1.88 * [10^3/uL]

0.01 [10³/uL]

0.02 [10^3/uL]

0.06 * [10^3/uL]

6.06 + [10^6/uL]

10.1 [g/dL]

36.2 [%]

59.7 - [fL]

16.7 - [pg]

44.5 [fL]

22.7 + [%]

9.7 [fL]

8.7 - [fL]

16.3 [%]

0.73 + [%]

[%] [%] [%]

27.9 - [g/dL]

Analysis Date/ lime: Print Date/Time: 04/11/2022 23:14

04/11/2022 23:08:09

Sex Male

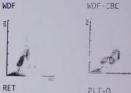
2.0)

Do	ct	0	r	8
Sti	idi	1	n	

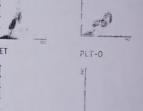
C	00	t	0	r	ă
St	u	d	V	ID	ä

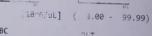
Results	Ranges				
62.5	%]	(37.9		1551

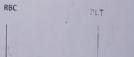
22.9	[%]	(20.3	-	50.0)
14.3	[%]	(0.0	-	14.0)
0.1	[%]	(0.0	*	6.0)
0.2	[%]	(0.0	-	1.0)
0.5	1%]	(0.0		72.0)











PLT IP Message

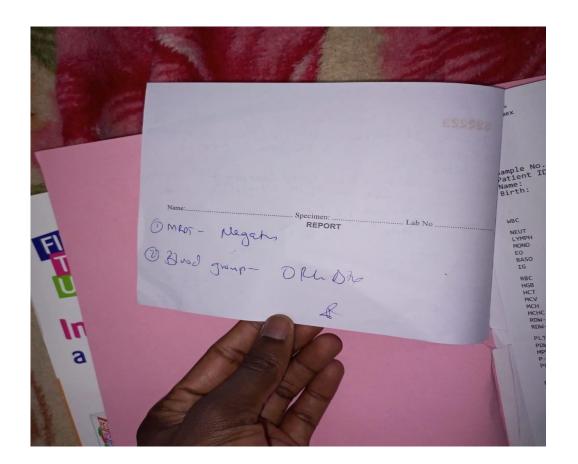
WBC IP Message Monocytosis AKKBYP89505

RBC IP Message Anisocytosis Microcytosis Hypochromia

Iron Deficiency?

Reviewed by :

Analyzed by XN



Rapid results- MRDT negative, RBS 4.3mmol/L

- Re assessed after 30 minutes with spontaneous eye opening and weak cry, however still
 with temp gradient, c refill <3s and thready pulse at 161bpm ,RR at 40 bpm, Chest clear,
 SPO2 95% FFO, BP 68/46mmHg
- - IV R/L 85mls over 30 minutes then switched to part 2 of plan C 595mls over 5 hrs.
- -Continuous vital monitoring every 30 minutes
- -Fluid balance chart started & child dressed in diaper

Reviewed after 2 hrs with lab results:

- -BS no mps seen, Blood Group ORhD+ve
- CBC : W 13,150 **N** 8,230 L 3,010 **M** 1,880 Hb **10.1**g/dL **MCV** 59.7 **MCH** 16.7 **MCHC** 27.9 PLT 840000
 - stool analysis watery and loose sample ,pus and yeast cells , no ova cysts seen

Note: RFTS with serum electrolytes not done due to financial constraints

O/E Alert and irritable, skin pinch goes back slowly, eyes still sunken, eager to drink, not in obvious resp distress, warm peripheries, diaper soiled with loose stool non bloody 23mls

Chest clear no crackles

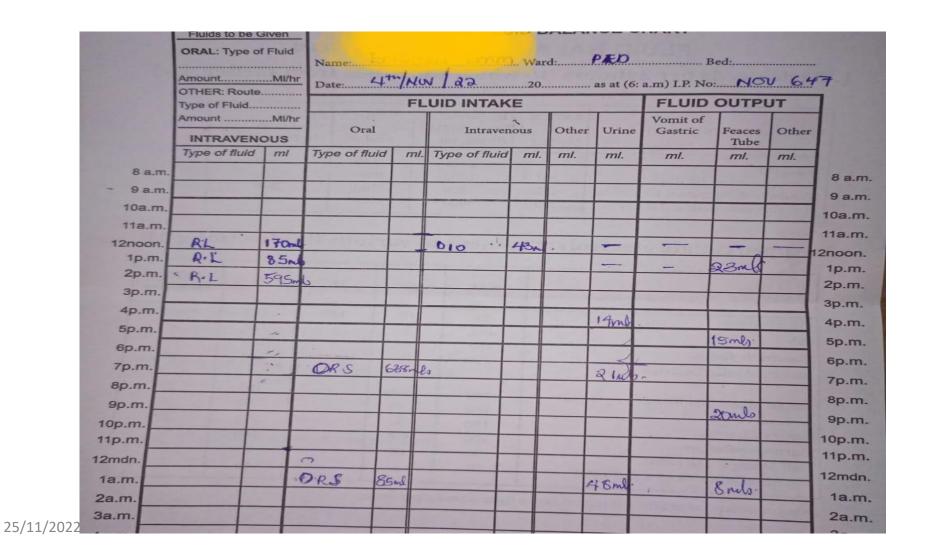
Vitals: T 37.7C, SPO2 97 %, RR 37 bpm, PR 156 bpm, Bp 79/51 mmHg

Urine output -0.8mls/kg/hr

Action

- Transferred to ward
- Completed plan C from ward and Continuous monitoring
 - Iv antibiotics Ceftriaxone and metronidazole started
 - Tabs Zinc sulphate 20mg o.d 2 weeks
 - Tabs Paracetamol 125 mg tds
 - Frequent breastfeeding encouraged
 - Monitor vitals and fluid balance on ward

Fluid balance chart



ISSUES

- Severe dehydration with shock
- Febrile illness
- Reduced levels of consciousness
- Hypotension
- hypoxia
- Mild microcyctic hypochromic anaemia
- ?Electrolyte imbalance
- Monitoring
- Investigation

THANK YOU