

ECHOSESSION

APPROACH TO DIARRHEA ILLNESSES IN ADULTS

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MO, KAYUNGA RRH.

CASE PRESENTATION

MS , 17 yr./ old male , brought in from home semiconscious, presented to the emergency department with a 2 day history of Diarrhea,Vomiting,General body weakness, 1 day history of cough and Reduced level of consciousness x 6 hours (history was collateral)

EMERGENCY ASSESSMENT AND MANAGEMENT

Air way	Patient had no abnormal sound , no secretions ,	Air way patent
Breathing	-Mild distress- -RR20, SPO2 89-90% at R/A -Chest was clear, with equal air entry	-Oxygen therapy – 3l / min , by nasal prongs , spo2, 95 % on o2 therapy
Circulation	BP-90/55 PR- 110 b/m, rapid, thready, normal rhythm ,S1S2 heard only but tachycardic, cold extremities, capillary refill>3seconds ,very slow skin pinch,	-Inserted 2 large cannulas -Resuscitated the patient iv fluids r/l (4.5 liters in the 1 st 3 hrs i.e. 30 ml/kg in the 1 st 30 min , then 70 mls /kg in the next 2 and a half hrs) estimated weigh 45kg , and re-assessed the patient for response. - warming up fluids .

Disability	<ul style="list-style-type: none"> -Patient semi conscious – GCS 11/ 15 – (m-5, e-3, v3) -RBS -4.1mmol/l -Pupils were normal size, equally reactive to light -Neck soft , kerning , and Brudzinski signs negative 	<ul style="list-style-type: none"> -Recovery position -Pass ng tube and catheter - D50%- 30mls start
Exposure	<ul style="list-style-type: none"> -Patient cold- un able to take the temperature at the time of assessment . -No life threatening injuries, discovered on examination 	<ul style="list-style-type: none"> -Gave warm fluids -Patient covered

continuation

S	Signs and symptoms	<ul style="list-style-type: none">- attendants reported patient had had ,Several episodes of profuse, watery diarrhea > 15 episodes a day, non bloody and no associated abdominal pain and had about 8 episodes of vomiting feeds at every attempt to feed X 2 days-A cough was non-productive x 1 day- no detailed information since history was collateral-Reduced level of consciousness 6 hours , which prompted them to rush to hospital. Neither fevers nor a convulsions were reported.
A	allergies	No known history of food or drug allergy
M	Medications	Oral rehydration salts , tabs metoclopramide- for the last 24 hrs (as self medication) . No history of any other chronic medication.

P	<p>Past medical history</p> <p>past surgical history</p> <p>FSH</p>	<p>Index admission , no history of chronic illnesses ,un known sero status .</p> <p>un remarkable surgical history</p> <p>Not married , did not smoke or drink alcohol , 1st born of 4</p>
L	Last meal	7 hours back -Had been vomiting every feed
E	Events	Patient was found , in his bed with reduced level of consciousness 6 hrs prior to admission, no history of any trauma was mentioned

PROBLEM LIST

- Severe dehydration
- Hypotension
- Reduced level of consciousness
- Feeding difficulty

INVESTIGATIONS

- Rbs – 4.1mm/l
- CBC- normal parameters
- MDRT-negative
- CHOLERA RDT- positive
- SERUM ELECTROLYTES– k 3.0 low, NA 144, CL 115.7 high ,
- RFTS -Creatinine -146, Urea 9.1.
- LFTS- normal
- RCT – negative

Sample results



The Republic of Uganda
MINISTRY OF HEALTH

NATIONAL HEALTH LABORATORY AND DIAGNOSTIC SERVICES
NATIONAL MICROBIOLOGY REFERENCE LABORATORY/ GENOMICS REF LAB

KAYUNGA CHOLERA OUTBREAK CONFIRMATORY RESULTS

ID
S.NO. 414
S.TYPE N001461 025
AGE Ser/Pl
SEX 17 Y
DRAW DATE M
DRAW TIME 27/07/23
17:13

DATE 28/07/23 15:37:41
OPERATOR ID TEEKA
PATIENT ID
CLINICIAN/Dr
LOCATION KRRH ISOLATION
Dr. Tel:

TEST	RESULT	UNIT	EXPECTED VALUE
ALB2	42.3	g/L	(38.0- 52.0)
TP2	75.6	g/L	(66- 89)
ALT	19.5	U/L	(0- 45)
AST	23.0	U/L	(0- 40)
ALP2	228	U/L	(65- 275)
GGT	61 H	U/L	(0- 55)
BIL2	2.2	umol/L	(0- 5.13)
BIL3	7.2	umol/L	(0- 23.94)
CREJ2	146 H	umol/L	(44.2- 114.92)
UREAL	9.1 H	mmol/L	(0.33- 1.11)
Na	144	mmol/L	(138- 150)
K	3.07 L	mmol/L	(3.6- 5.4)
Cl	115.7 H	mmol/L	(90- 108)

Patient ID	Patient name	Age	Sex	Sample type	PCR results
23/1305 A/B		70	F	Stool/ Swab	Positive
23/1306 A/B		37	M	Stool/ Swab	Positive
23/1307		2	M	Stool	Positive
23/1308		17	F	Stool	Negative
23/1309		15	M	Stool	Positive
23/1310		11	M	Stool	Positive
No ID		12	F	Stool	Negative

Tested by: Francis Ongole

Signature:

Date: 26/07/2023

Reviewed by: Atuhaire Winifred

Signature:

Date: 26/07/2023.

Comments:

Report Date:

28/7/2023

Report Time:

16:08

Analyzed by: Sign/ Date

28/7/2023

Reviewed/Authorized by: Sign/Date

28/7/23



DIAGNOSIS

- Cholera complicated with severe dehydration
- Hypotension
- Electrolyte imbalance
- URTI

Treatment and follow up

Definitive management

- Iv ciprofloxacin 400mg bd x 5 days

Supportive management

- Continue oxygen therapy 3l/min by nasal prongs
- Iv metoclopramide 10mg tds x 2 day
- Iv d50 30mls start then continue saline dextrose infusions(ringers with dextrose 50 %) 8 hrly x 24 hrs – (during the maintenance fluid administration)
- Maintenance fluids after resuscitation – R/L 500mls 4 hrly x 24 hrs
- ORS to be initiated as soon as patient can tolerate feeds , at least 3 l per day , to take as much as he can after every loose motions
- Pass catheter for urine output monitoring
- Educating the attendants and counselling them about the disease prevention

IPC

- Isolated the patient .
- Educated the attendants, about the health concerns pertaining the disease
- Administration was informed since cholera is a public health concern , such that they could notify the district health team.

FOLLOW UP

-Duration of stay – 25th July- 31st July/2024

On the very day

After resuscitation, patient gained consciousness, and the NG tube was removed, he spent a fair night though he still had episodes of profuse diarrhea .

Day 2

-patient was still weak , still several episode of diarrhea and vomiting his vitals were stable

BP 121/70 , PR – 100bpm , SPO2 99 % on oxygen 3l/min , TEMP 36.1 , RBS 6.3mm/l, patient was fully conscious and not distressed and we maintained previous treatment, but intermittent o2 therapy .

Day 3

- patient had improved and was weaned off oxygen , vomiting had reduced to 2 episodes , reduced episodes of semi solid stool, we begun ORS for the patient .catheter was removed .

Day 4

- patient still had a few episodes semi solid stools , mild vomiting and still weak, but he could tolerate oral feeds. Fluid management was also continued to support hydration, frequency adjusted .

CONTINUATION

Day 5

patient was much better vomiting had stopped , stool had solidified , and no major complaints were reported . We kept patient around , with drew in fluids , encouraged patient to feed orally and take ORS at least 3litres per day .kept him around for monitoring .

Day 6

patient was stable and switched on to oral antibiotics .

Day 7

patient was discharged in a better condition, on oral medication, and health education was done , preventive measures- (boiling drinking water and food properly ,hygiene , waste disposal , isolation of cases) and feeding.

Following d/c more cases were reported , from the same proximity , and a committee was formed to investigate the issue , also to emphasize preventive measures (IPC) to the hospital and the community at large , measures to control it were put in place, and the issue was notified to the district.

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THANK YOU