

# Case Presentation

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# Patient particulars

- Name:
- Age: 9 years
- Sex: Female
- Address: Gopaldi, Araihaazar, Narayangonj
- Admission: 17<sup>th</sup> June, 2018 at 8:31 PM

**at Short Stay Unit**

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**Figure 1:** The 9 years old patient at emergency ward.

- Condition: Lethargic
- Eyes: Sunken
- Mucosa: Dry
- Thirst: Unable to drink
- Skin turgor: Reduced
- Radial pulse: Absent
- Dehydration: Severe

# Management received

- IV fluid (Acetate 3L) and G-ORS
- Azithromycin (STAT), suspecting Cholera

## Transfer details: SSU $\Rightarrow$ LSU

- **Time:**
  - 19<sup>th</sup> June, 2018 at 4:39 PM
- **Cause:**
  - Repeated dehydration
  - Fever
  - Acute watery diarrhea

**at Longer Stay Unit**

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# Presenting complaints

- Watery stool with vomiting for 3 days
- Fever for 2 days
- Burning sensation during micturition with lower abdominal pain for 2 days

## Present illness history

- Reasonably well 3 days back
- Acute onset, passage of watery stool 3 days prior to admission with no associated blood or mucus or straining
- Fever for last 2 days
- Dysuria and abdominal pain for 2 days

## Past illness history

- No significant history of past illness

- Tin shed housing
- Supply water
- Fathers occupation: Rickshaw puller

# Drug and allergy history

- No prescribed drug history
- No drug allergy was found

- Weight: 18.10 kg
- Height:
- Weight for age z-score: -3.02 SD (WHO AnthroPlus)
- Temperature: 36.6°C
- Pulse (Radial): 110 /min (Regular)
- Respiratory: 24 /min
- SpO<sub>2</sub>: 99% without O<sub>2</sub> support

- Eyes: Sunken
- Mucosa: Dry
- Thirsty
- Skin turgor: Reduced
- Dehydration: Some

- Jaundice: no
- Cyanosis: no
- Edema: no
- Lymphadenopathy: no
- HEENT: NAD



## Systemic exam: Cardiovascular

- Apex beat: Normal
- Heart sounds:  $S_1 + S_2 + 0$
- Murmurs: No

# Systemic exam: Respiratory

- Chest movement: Symmetrical
- Intercostal recession: No, emaciated
- Tracheal tug: No
- Airway: Clear
- Lungs: Vesicular breath sounds, no added sounds

# Systemic exam: Abdomen

- Contour: Scaphoid
- Distension: No
- Tenderness: Lower abdominal
- Rigidity: No
- Organomegaly: No
- Bowel sound: Present

- No abnormality detected

# Provisional diagnosis

- Acute watery diarrhea (AWD) with,  
Some dehydration
- Probable urinary tract infection (UTI)

# Differential diagnosis

- Watery diarrhea, due to:
  - Cholera
  - ETEC
- Fever, due to:
  - Viral
  - UTI
- Lethargy, due to:
  - Dehydration
  - Electrolytes imbalance
- Dysuria, due to:
  - UTI

- G-ORS, for some dehydration and
- Fluid ration for 6 hours (NS + 5% Dextrose 0.5L), due to persistent vomiting

- Syr. Levofloxacin (UTI)
- Syr. Ranitidine
- Inj. Granisetron
- Syr. Potassium chloride



- Full strength rice-suji 150 ml 2 hourly
  - ◇ Volume: 99.5 ml/kg/day
  - ◇ Calorie: 70 kcal/kg/day

**Table 1:** Urine RME

|                         |         |
|-------------------------|---------|
| pH                      | 6.5     |
| Protein                 | 1+      |
| Ketones                 | 2+      |
| RBC (/HPF)              | 1 – 3   |
| Pus cells (/HPF)        | 25 – 30 |
| Epithelial cells (/HPF) | 1 – 3   |
| Granular casts (/LPF)   | 5 – 9   |

**Table 2:** Stool CS

| Organism:     | <i>Aeromonas spp.</i> |
|---------------|-----------------------|
| Tetracycline  | S                     |
| Cotrimoxazole | R                     |
| Erythromycin  | R                     |
| Ciprofloxacin | S                     |
| Azithromycin  | R                     |
| Doxycycline   | S                     |

**Table 3:** Urine CS

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No organism isolated

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**Table 4:** S. Electrolytes

|                |       |
|----------------|-------|
| $\text{Na}^+$  | 129.3 |
| $\text{K}^+$   | 3.05  |
| $\text{Cl}^-$  | 103.6 |
| $\text{TCO}_2$ | 12.5  |
| Anion gap      | 16.25 |

**Table 5: CBC**

|                       |                       |
|-----------------------|-----------------------|
| Hemoglobin            | 15.2 gm/dl            |
| Hematocrit/PCV        | 42.7%                 |
| Total leucocyte count | $13.98 \times 10^9/L$ |
| Neutrophil            | 71.4%                 |
| Lymphocyte            | 17.6%                 |
| Monocyte              | 4.4%                  |
| Eosinophil            | 6.1%                  |
| Basophil              | 0.5%                  |

# Diagnosis

- Acute watery diarrhea
- Urinary tract infection
- Electrolyte imbalance ( $\downarrow\text{Na}^+$ ,  $\downarrow\text{K}^+$ )

- ▷ Diarrhea resolved

## **Advices**

Please continue medication regularly as prescribed,  
Please use clean and boiled water,  
Please maintain personal hygiene,  
Please contact with nearby physician/hospital if any problem arises.

- ▷ Discharged with advice,  
on 21<sup>st</sup> June, 2018 at 10:15 AM



**Thank you**