

THE BABY WITH GREEN TEETH

CPAP CASE STUDIES

DR. MAGDALENE KURIA

History of baby E.O.

- Born SVD in casualty at ~28 weeks gestation on 4/7/2014
- Baby weighed 1200gram and was not given Apgar score

Day 1

- Baby admitted to Newborn Nursery
- Prematurity and hypothermia
- Stabilised after warming and oxygen
- Started on first line antibiotics IV fluids

Day 3

- High fever
- Clinically jaundiced
- Serum bilirubin's not done
- Phototherapy commenced
- Urinalysis NAD

Day 4, 5,6

- Apnoea episodes
- Resuscitated many times
- Hb: 10.2 g/d
- Transfused
- Rectal Aminophylline on going
- Weight 950g still on fluids



Day 7- 10

- Off oxygen
- Tolerating trophic feeds
- Jaundice
- Total bilirubin 178umol/l
- Direct bilirubin 55.3
- Indirect 123

Day 13

- NEC
- Day 11 started having aspirates
- Blood culture courtesy of Aga Khan hospital grew Klebsiella sensitive to Meropenem

Day 13-61

- Day 13-30:
 - Jaundice
 - GI Bleeding
- Day 30-61:
 - Peace and growth weight went up to 1650g
- Day 61: Aspirated on first cup/spoon feed
- **Severe respiratory distress managed on CPAP**

Day 75

- Discharged: at 2000g breast feeding fully
- Follow up in POPC and Occupational therapy
- Still jaundiced
- Currently the sclera is white but her teeth are yellowish green



A miracle in our tiny nursery with many challenges at 18 months old



Lessons

- First cases of CPAP
- CPAP used in aspiration pneumonia successfully
- **Started journey successful use of CPAP at Kisumu County Hospital**

THE BABY WHO SWALLOWED KEROSENE

CPAP CASE STUDIES

DR. MAGDALENE KURIA

Day 1

- 3 year old with cerebral palsy
- Kerosene inhalation: drunk 150ml of kerosine
- Admitted to Pediatric Ward for observations
- Respiratory rate normal, no fever

Day 2

- Developed respiratory distress after aspirating milk
- RR: 100bpm
- SPO₂ decreased to 84%
- **Started CPAP**
- Chemical pneumonitis + aspiration pneumonia

Day 3-5

- Persistent Respiratory distress
- Day 5:
 - No longer required oxygen but still on CPAP

Day 7

- Off CPAP fully recovered

Lessons

- CPAP can be used outside of traditional cases
 - Pneumonia
 - Sepsis
 - RDS

THE BABY WITH TB

CPAP CASE STUDIES

DR MAGDALENE KURIA

Day 1

- 1 year old, 6 kg
- Admitted to Pediatric Ward:
 - Chronic cough (3+ weeks)
 - Weight loss
 - Malnutrition
- Treated for SEVERE Pneumonia
 - Started Penicillin & Gentamicin for 5 days
- **Started CPAP on arrival**
- Increased respiratory rate
- Crepitations

Day 5

- Started 2nd line:
 - Ceftriaxone
 - Amikacin
- Continued on CPAP

Day 7

- Not improving
- X-ray ordered, NOT done
- Continued antibiotics
- Continued CPAP (with respiratory distress)

Day 10

- X-ray done
 - Showed opacities (highly suggestive of TB)
- Started on anti-TB treatment same day

Day 14

- Respiratory distress decreased
- Patient discontinued from CPAP



Lessons

- CPAP is not treatment
 - Must get cause of Respiratory Distress and treat
- CPAP is supportive therapy

- Questions:
 - Why the green teeth?
 - Chemical Pneumonitis?
 - TB?

THANKS