CPAP EXPERIENCE
SHARING

BUNGOMA COUNTY REFERRAL HOSPITAL
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KPA 2016
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Outline

- Background
- Reason for CPAP
- Who applied CPAP
- Duration on CPAP
- Outcomes
- Adverse events
- Challenges
- Way forward
Background

- Began in August 2014 after TOT training with two machines
- 4 TOTs - Paediatrician, 1M.O, 2 Nurses
- Internal CME and trainings
- Mainly used in new born unit
- Added a 3rd machine in Feb 2016
Statistics

- 85 patients by end of March 2016
- 53 male, 32 female (M: F=1:1.6)
- NBU 83, Paeds Ward 2
Reason for CPAP

- PREM/RDS: 59
- RD: 10
- SEPSIS: 9
- ASPHYXIA: 5
- Pneumonia: 2
Who applied CPAP

- Majority were applied by nurses (73%)
- Teach interns and students during application
- Emphasis on patient identification
  - Silverman-Anderson score
Duration on CPAP

- 6 hrs: 4
- 6-12 hrs: 5
- 12-24 hrs: 34
- 24-48 hrs: 23
- >48 hrs: 19

Bar chart showing the duration on CPAP, with categories 6 hrs, 6-12 hrs, 12-24 hrs, 24-48 hrs, and >48 hrs, and the corresponding counts.
Outcomes

- Alive, discharged home – 72% (61/85)
- Deaths – 28% (24/85)
- Prolonged stay – BPD, Aspiration, CHD
Adverse events

- 2.3% (2/86)
- Vomiting
- Injury to the nostrils
Challenges

- Patient identification
- Space
- Loss of CPAP accessories—nasal prongs; SIZE 0
- Attitude
- Few machines
Way forward

- Continuous OJT – qualified staff, interns and students
- Periodic Replacement of accessories
- More machines – KPA, County
- Expansion of NBU
- Dissemination of 2016 basic Paediatric protocol
Thank You