Surgical Experiences in the Developing World

Surgery Grand Rounds

5/16/2011

Franklin Wright, MD
Kolofata
• Hopital de District de Kolofata
  - 100 bed governmental district hospital
  - 10 miles from Cameroon/Nigeria border
  - Covers 119,000 people, sustenance farming region, 5% literacy rate
  - 300 surgical cases/yr
  - 2 physicians (1 medical, 1 surgical)
    • Medical – Dr. Ellen Einterz, US/Canadian trained, built up hospital over 20 yrs
    • Surgical – Dr. Daniel Nkusu, Congalese, trained in Kinchasa, 5 years at hospital
  - 30 nurses
  - 25 support staff
RESULT OF THE JOINT EFFORT OF THE CAMEROONIAN AND AMERICAN PEOPLES

FRUIT de l'EFFORT CONJUGUE des PEUPLES CAMEROUNAIS ET AMERICAIN
• Government funding – limited
• NGO support
• Partly subsidized care, still requires payment, care was refused based on lack of ability to pay
• Payment up front, no banks/credit
• Medications – donated, purchased from India
• Importance of having a benefactor
Scrub sink, changing & call room
Surgical resources

- OR tables x 2
- Electrocautery (one hand piece and tip, left in bleach between cases)
- Fluoro – unsafe to use due to suspected radiation leak
- Handheld U/S
- Ketamine / spinal analgesia
- No ventilator / ETT
<table>
<thead>
<tr>
<th>Medication</th>
<th>Formulation</th>
<th>Quantity</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisacodyl</td>
<td>comp</td>
<td>5</td>
<td>5mg</td>
</tr>
<tr>
<td>Bleomycin</td>
<td>flac</td>
<td>25500</td>
<td>15mg (15000IU)</td>
</tr>
<tr>
<td>Bupivacaine 0.5%</td>
<td>amp</td>
<td>825</td>
<td>4ml</td>
</tr>
<tr>
<td>Calamine</td>
<td>lotion</td>
<td>700</td>
<td>100ml</td>
</tr>
<tr>
<td>Calcium gluconate 10%</td>
<td>amp inj</td>
<td>95</td>
<td>1g / 10ml</td>
</tr>
<tr>
<td>Calcium lactate</td>
<td>comp</td>
<td>15</td>
<td>300mg</td>
</tr>
<tr>
<td>Carbamazepine</td>
<td>comp</td>
<td>10</td>
<td>200mg</td>
</tr>
<tr>
<td>Ceftriaxone</td>
<td>flac inj</td>
<td>910</td>
<td>1g</td>
</tr>
<tr>
<td>Charbon actif</td>
<td>comp</td>
<td>20</td>
<td>125mg</td>
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<tr>
<td>Chloramphenicol</td>
<td>flac inj</td>
<td>225</td>
<td>1g</td>
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<tr>
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<td>gel</td>
<td>10</td>
<td>250mg</td>
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<tr>
<td>Chlorpheniramine</td>
<td>comp</td>
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<td>4mg</td>
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<tr>
<td>Chlorpromazine</td>
<td>comp</td>
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<td>35mg</td>
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</table>
Expired drugs

BUPIVACAINE MERCK 20 mg / 4 ml
Solution injectable (voie intrarachidienne)
Solution for injection (intrathecal route)
Stérilisation (ethylene oxide)

Lot / Batch: 1031
Exp: 08/2008
- Urology
  - Transvesicular prostatectomy
  - Scrotum I&D
  - Vesicular kidney stone removal
  - Urethral repair
- General surgery
  - Appendectomy
  - Back mass excision
  - Ex-lap c LN biopsy (colon CA)
  - BKA
  - VHR, UHR
  - IHR
- Burn
  - STSG
- OB/Gyn
  - C-section
  - Cervical biopsy
- ENT
  - L nasal mass excisional bx
  - Cervical LN bx
- Honey
- Gentian Violet
- Scalpel STSG
- Significant delays from burn until excision/grafting
Gas station
Ready for surgery
Pediatric kidney stone
Pediatric kidney stone
Appendectomy
Incarcerated UH
Anastamosis
S/P Ex-lap & SBR
Cleft palate
Nasal mass
Local transport
Recurrent melanoma
S/P Fournier's gangrene
Fournier's Reconstruction
Facial paralysis
Goiter
• Surgical creativity
• Clinical decision making
• Efficacy of ketamine/spinal
• Limited control in trauma setting
• Economics of patient care
• Comfort with different social norms
Surgical team