A DELPHI ANALYSIS TO REACH CONSENSUS ON PREOPERATIVE CARE IN INFANTS WITH HYPERTROPHIC PYLORIC STENOSIS

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Pyloric stenosis: Delphi analysis

Recommendation on:

1. Blood sampling
2. Required serum concentrations before pyloromyotomy
3. Intravenous fluid therapy
The Delphi technique

First Round
• Rating statements

Second Round
• Group response is fed back
• Revise or criticize

Third round
• Presentation of recommendation

Laboratory values and cut-off

Recommended

- **pH** (≤7.45)
- **Base excess** (≤3.5)
- **Bicarbonate** (<26 mmol/L)
- **Glucose** (≥4.0 mmol/L)
- **Sodium** (≥132 mmol/L)
- **Potassium** (≥3.5 mmol/L)
- **Chloride** (≥100 mmol/L)
Fluid resuscitation

- **Recommended** 150ml/kg/day isotonic crystalloid with 5% dextrose and 10-20 mEq/L potassium.

- **Inappropriate** 5% dextrose in 0.45% saline

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Conclusion

• Normalize:
  • pH
  • Base excess and bicarbonate
  • Glucose
  • Electrolytes

• Resuscitation fluid:
  • Isotonic crystalloid with 5% dextrose
  • 10-20 mEq/L potassium
Thank you for your attention!

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