Perioperative blood glucose, fasting and maintenance fluid

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Sir,

The report on 'perioperative blood glucose, fasting and maintenance fluid'^[1] is very interesting. Adenekan noted 'the commonly administered 4.3% dextrose in

is no problem of hypoglycaemia due to pre-operation fasting and unwanted hyperglycaemia due to lactated Ringer's solution administration.^[2] Further comparative study between 4.3% DS and lactated Ringer's solution is suggested. A possible more interesting idea is to use

0.18% saline (DS) to treat the presumed hypoglycaemia often causes severe hyperglycaemia, which is known to have negative impact on outcome of surgery'.^[1] In fact, to manage the glucose homeostasis is a very difficult issue in paediatric surgery. In general surgery, the use of alternative option to glucose maintenance fluid is also studied. The interesting option is lactated Ringer's solution. From Thai experience, it is reported that there

a balancing maintenance solution. There is a suggestion to use 'Ringer-lactate solution with 0.9 or 1% dextrose in paediatric patients' for elective surgery.^[3]

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REFERENCES

- 1. Adenekan AT. Perioperative blood glucose in a paediatric daycase facility: Effects of fasting and maintenance fluid. Afr J Paediatr Surg 2014;11:317-22.
- 2. Saringcarinkul A, Kotrawera K. Plasma glucose level in elective surgical patients administered with 5% dextrose in 0.45% NaCl in comparison with those receiving lactated Ringer's solution. J Med Assoc Thai 2009;92:1178-83.
- 3. Berleur MP, Dahan A, Murat I, Hazebroucq G. Perioperative infusions in paediatric patients: Rationale for using Ringer-lactate solution with low dextrose concentration. J Clin Pharm Ther 2003;28:31-40.