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ACID AND BASE DISORDERS IN DIARRHOEA AND VOMITING:STUDY IN 805 INFANTS WITH GASTROENTERITIS

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Abstract:

This study was carried out on 1330 infants, from one to 24 months old, suffering from diarrhoea and moderate to severe dehydration who were hospitalized in Bahrami childrens' hospital over a period of eleven months. Fifteen percent of them had signs of shock and 36% had marasmus. Nine percent of treated children required readmission to hospital within 24 hours of discharge and 8% were hospitalized elsewhere. In 805 patients blood electrolytes were studied when hospitalized and after rehydration. Blood bicarbonate during hospitalization ranged between 2 to 24 mmol/L (an average of 13.4 mmol/L). After rehydration, blood bicarbonate value reached to range of 8 to 25 mmol/L, (an average of 20 mmol/L). Blood pH was reported between 6.84 to 7.56 when hospitalized (an average of 7.17). After rehydration this value ranged between 7.05 to 7.45 (an average of 7.27).

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Acid and base

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