

Vitamin D independent paracellular and non saturable, mechanism is important for intestinal calcium absorption and decreases in lactose free diets. Ten normal term babies with identical repletion levels of 25-hydroxyvitamin D (25D) were fed sequentially with the same starting formula manufactured under two carbohydrate sources: lactose (SF) and polyose (LFF). A 3-day balance was performed after 6-8 days of adaptation to the new diet.

| | Ca in mg/Kg/d [mean (SD)] | | | Pi in mg/Kg/d [mean (SD)] | | |
|-----|---------------------------|------------|------------|---------------------------|-----------|------------|
| | INTAKE | FECAL EXCR | NET RET | INTAKE | FECAL EXC | NET RET |
| LFF | 133.9(17.7) | 58.9(13.8) | 74.4(13.9) | 63.5(9.8) | 14.3(7.8) | 48.6(9.0) |
| SF | 134.0(22.3) | 40.0(15.2) | 93.5(15.2) | 65.2(13.1) | 10.2(6.9) | 52.7(11.2) |
| P < | NS | 0.01 | 0.01 | NS | NS | NS |

Fecal excretion was significantly higher in LFF; urinary calcium was 2.4(1.5) and 2.1(1.5) mg/Kg/d in both periods. There were no differences in Pi absorption despite calcium changes. Mg retention was not affected by lactose absence. Bowel frequency was 3.3 and 3.0 stool/day in both periods. In plasma only Alk p-ases were slightly raised, but 25D was respectively 20.6(10.1) and 21.3(8.1) ng/mL in both periods. Formulae with polyose as a unique carbohydrate source can reduce in 20% the net retention of Ca, thus promoting osteopenia.

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