STRONG CHILDREN'S RESEARCH CENTER

Summer 207 Research Scholar

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Background: Recent literature shows that patients with type 1 diabetes (T1D) have low bone destably liandresplating liber considered in the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary indicence weight by the poor glycemic control associated with greater urinary of poor glycemic and the poor glycemic difference of the poor glycemic and the poor gl

Results: The percentage of males hetT1D, and NHANES populations were 53.1% and ,49% NHSIPACTISet (p.140105) (pt 105) of the target of target of the target of target of the target of targ

= 0.26). Additionally, compared to the other three groups, the NHANES population had 34% meeting the recommended daily allowance (RDA) of calcium compared to the T1D population which had 77% (p <0.05). The US and T1DwS groups had 73% and 86% grtBetRDA, both significantly higher than NHANES (p<0.05). Within T1D participants, calcium intake was inversely associated ith age ($\vec{R} = -0.17$, p = 0.04), positively associated if growth ($\vec{R} = 0.33$, P < 0.001), and netsociated with average A1c ($\vec{R} = 0.02$, P = 0.99)

Conclusion: This study found that dietary calcium intake was greater in T1D and US from URMC compared to a national types entative population of NHANES. There was evidence of a trend toward increased calcium intake in a subsample Diparticipants compared to US; the small sample size of this group may have limited our ability to detect a statistical difference. This study demonstrate that despite the fracture risks, nearly ¼ of the pediatric T1D population is not achieving the BA of calcium. It was also found that calcium take is inversely proportional to the age of the T1D population, despite the fact that bone accrual is ongoing throughout the entire age range of the population studied. Additionally, over 75% of this population did not meet the recommeded guideline of sustaining A1c below 7.5. Consequently, these combined factors may significantly increase the fracture risk within the T1D population. The methodology forbtaining the calcium intake differed between NHANES a the present study, which may explain the differences noted. However, diet recalls have been doneon a sample of the 1D study population and preliminary studies suggest a strong relationship with the FQs. Future diet recalls are planned to confirm the FQ and diet recall methods may be accurately compared.