In addition to the theoretical implications of these results, several practical implications are apparent. The data suggest that repeated tests of the same subject must be interpreted with caution, because the response during later tests may well be determined by previous infusions. It is interesting to note in this regard that several previous studies finding no change in feeding after hepatic portal glucose infusion have used daily tests according to counterbalanced designs (Refs. 2, 13, and 17-20 and perhaps Refs. 26, 27, and 29).