Development Changes in the Kinetics of Glucose and Urea in Holstein Calves. By Hayashi et al., page 1654. The present experiment was conducted to assess the developmental changes in the kinetics of glucose and urea in calves at 4, 13, and 24 wk of life. Glucose kinetics were higher at 4 wk of age than at 13 and 24 wk of age. Urea kinetics were higher at 24 wk of age than at 4 and 13 wk of age. Weaning at 6 wk is pivotal for the alteration of glucose kinetics. However, the aging process is important for changes in the kinetics of urea in calves.