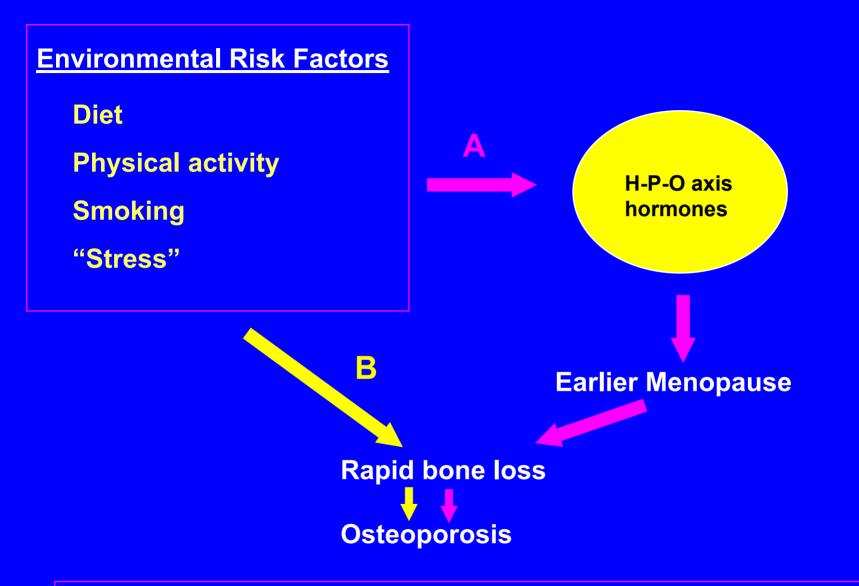
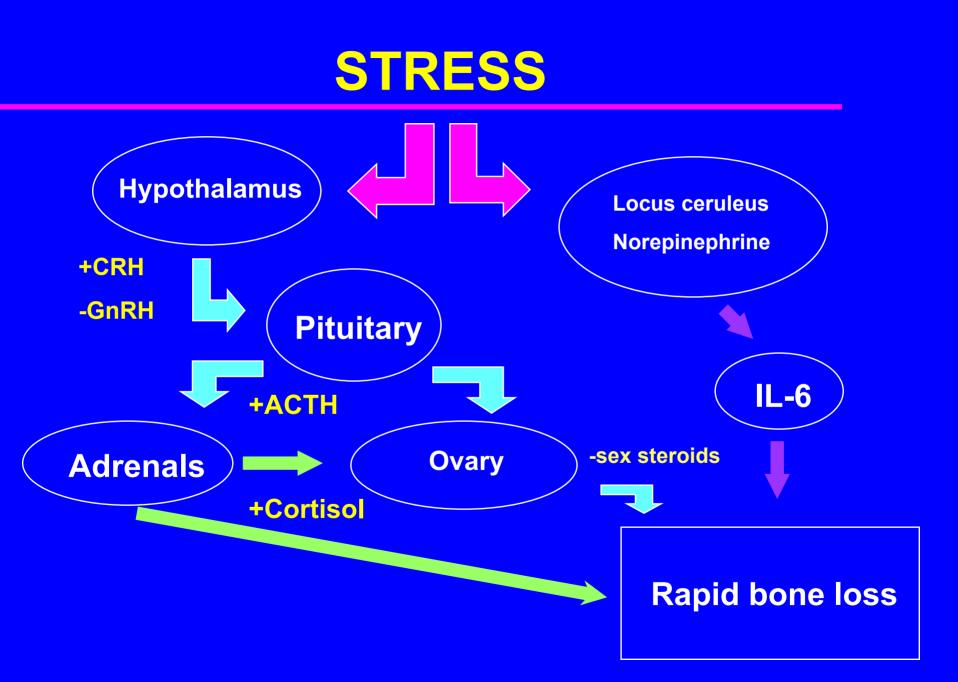
## Biology of the Perimenopause: Impact on Health and Aging Workshop

Environment, hormones, and bones Deborah M. Kado, MD, MS David Geffen School of Medicine at UCLA



## Plausible biologic pathways leading to osteoporosis



## **Measures of "stress"**

- Associated with earlier menopause
  - SES
  - Marital status
  - Financial burden
  - ?cortisol
  - ?other biologic markers

- Associated with osteoporosis
  - SES
  - Marital status
  - Depression
  - High cortisol
  - ?other biologic markers



"That's not the kind of bone loss we talk about."