







## POPULATION INFORMATICS A Simplified Computer Memory PROCESSOR MEMORY **INPUT/OUTPUT** • There are 100 "locations" 00 REGISTER 134 on the blackboard IN 01 212 0 0 421 STOR 007 • Each location has room for 02 O03 006 +030 +400 one 3-digit number 04 311 (4)• LOAD moves number from 602 05 (1)(2)(3)... blackboard to register. $\odot \odot$ 97 Example: LOAD 01 98 99 • STORE moves number from OUT CALCULATOR BLACKBOARD register to blackboard. Example: STORE 00

































































## Takeaway II Summary

- Two main health care information systems
  - o Administrative
  - o Clinical
- Brief history of health care information systems
- Electronic health records (EHR)
- Personal (PHR) health records
- Patient Portals

- EHR adoption rates
  - $\circ$   $\;$  Higher for those eligible for HITECH incentives

POPULATION INFORMATICS

36

- Value of EHR systems
  - Safety
  - Revenue
  - Satisfaction
- Key issues related to EHR systems
  - Interoperability
  - o Usability
  - Health IT Safety





<image><image><image><image><section-header><list-item><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

