Research Summary
"An information system and medical record to support HIV treatment in rural Haiti"
Fraser HS et al, BMJ 13 November 2004

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Clinical staff working with a web based medical record system.
Fig. 1 in Fraser HS et al, *BMJ* 13 November 2004.

Presentation: Clark Freifeld
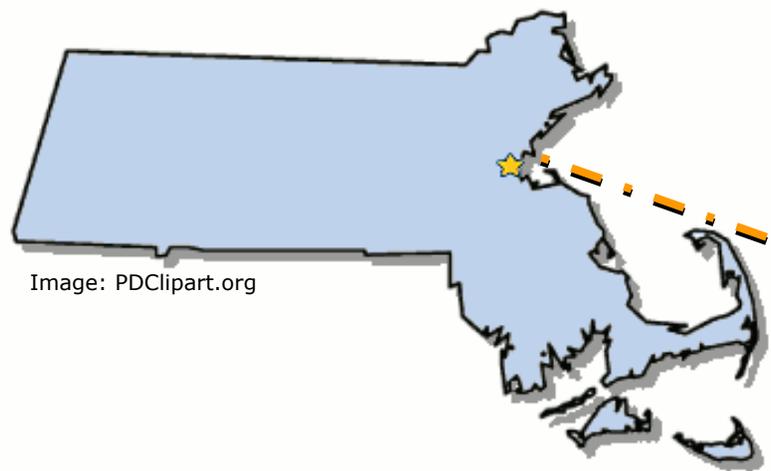
System Configuration

Image: PDClipart.org

Image: NASA

Image: CIA World Factbook

Advantages

- Easier to track patients

- Secure

- Clinical tracking:
  - Drug supply
  - CD4 counts

- Automated alerts
  - Drug interaction
  - Regimen vs. CD4 check

Challenges

- Limited connectivity
- Unreliable power
- Limited IT expertise
- Dust, humidity, security

Solutions

- Hosted in Boston

- Offline client store-and-forward

- Satellite Internet
  - $6000 + $260/mo
  - 30 – 256 kbps upload
  - 256 - 400 kbps download
  - Physical equipment must be deployed, maintained, protected

- SSL

Results

- Nine months usage
- 2500 patients,
  - 1300 fully registered
  - 800 full ARV regimens recorded
- 150 new each month
- To be expanded to other disease categories, patients

Limitations

- At that time, custom software rather than OpenMRS

- Data not always up to date

- No data on change in drug supply chain efficiency

- No specific data on training time and cost
  - Software forms based on paper forms

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