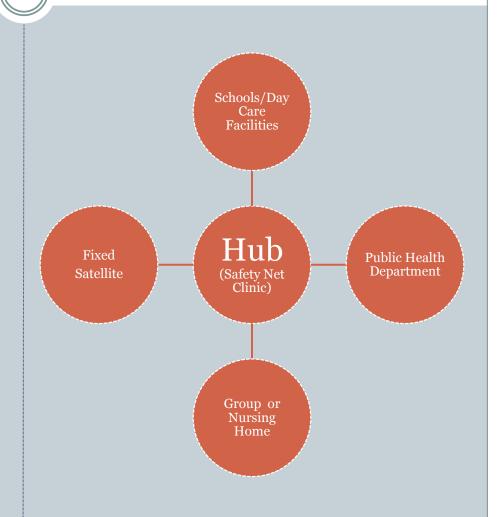
## Dental Hubs: A Public-Private Partnership That Works

Preliminary results from an independent evaluation of the Dental Hub Program designed and operated by the Kansas Association for the Medically Underserved (KAMU) and its member clinics.

Anthony Wellever, Assistant Professor Department of Family Medicine University of Kansas Medical Center

### **Hub and Spokes**

- Hubs Dentists and hygienists
  - Safety net clinics
  - Provide preventive,
     emergency, and restorative
     dental services
- Spokes ECP hygienists
  - Fixed satellites
    - Outreach to unserved or underserved rural populations in permanent clinic locations
  - Public health and community settings
    - Outreach to targeted underserved rural populations using portable equipment



### **Model Specifications**

- Staffing
  - Up to 3 full-time dentists
  - Up to 1 FTE in-house hygienist
  - Up to 2 FTE extended-care practice registered dental hygienists
  - Up to 2 dental assistants per dentist

### **Model Specifications**

- Equipment
  - 2.5 operatories/dentist, one operatory/on-site hygienist
- Level of Service
  - Provision of education, preventive, emergency and restorative dental services to the underserved.
  - Integration of medical and dental services, which may be built upon the Dental Health Disparity Collaborative
  - Use of an outreach worker to support case management and enrollment of individuals likely to be enrolled in or eligible for Health Wave.
- A regional service plan
- Productivity standards of 2400 encounters per year for dentists; 1400 encounters per year for hygienists

### **A Solution: Dental Hubs**

- First proposed by KAMU in 2006
- Distributive model for providing dental services in underserved locations based on:
  - Existing safety net clinics
  - Hub-and-spoke delivery sites
  - Increases in human and physical resources dedicated to oral health
  - Integration of oral health with other aspects of health care

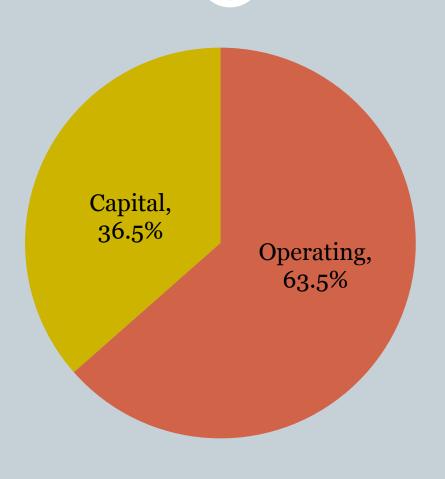
## **Funding**

- KAMU shared the concept with public and private funders encouraging them to:
  - Support the creation of a safety net oral health system based upon the dental hub concept with grants <u>and</u>
  - Align their funding processes and priorities to create appearance of a seamless program.
- By 2007 all of the pieces had come into place for an unprecedented public-private partnership and the first grants were awarded.

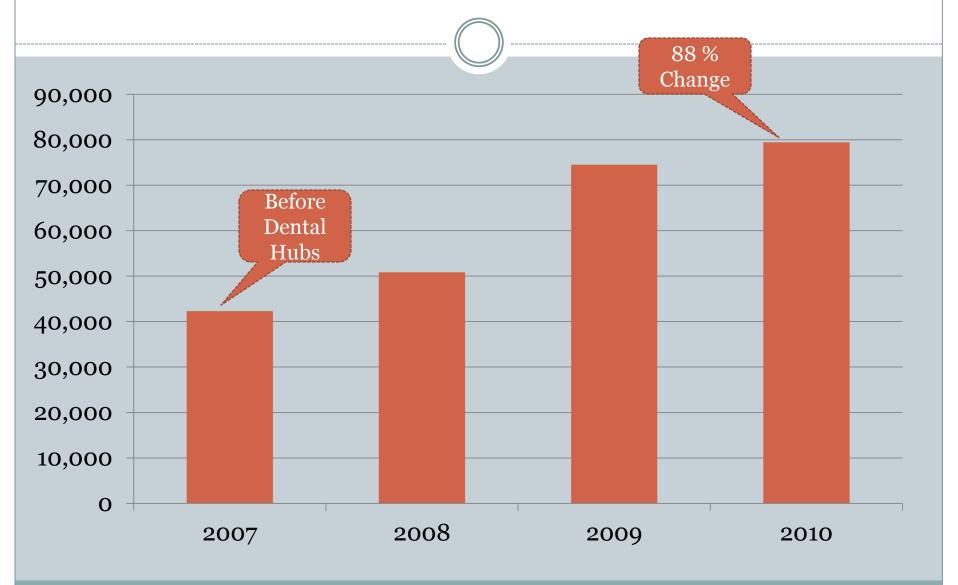
## **Funding Across Three Cycles**

Funder	Hub I 2007-2011	Hub II 2008-2011	Hub III 2009-2011	Total
KDHE	\$500,000	\$500,000	\$500,000	\$1,500,000
United Methodist Health Ministry Fund	\$500,000	\$500,000	\$250,000	\$1,250,000
Kansas Health Foundation		\$1,000,000		\$1,000,000
Sunflower Foundation	\$500,000	\$300,000		\$800,000
Jones Foundation	\$574,000			\$574,000
Delta Dental of Kansas Foundation	\$213,000	\$250,000	\$100,000	\$563,000
REACH Healthcare Foundation	\$175,000	\$250,000		\$425,000
Total	\$2,462,000	\$2,800,000	\$850,000	\$6,112,000

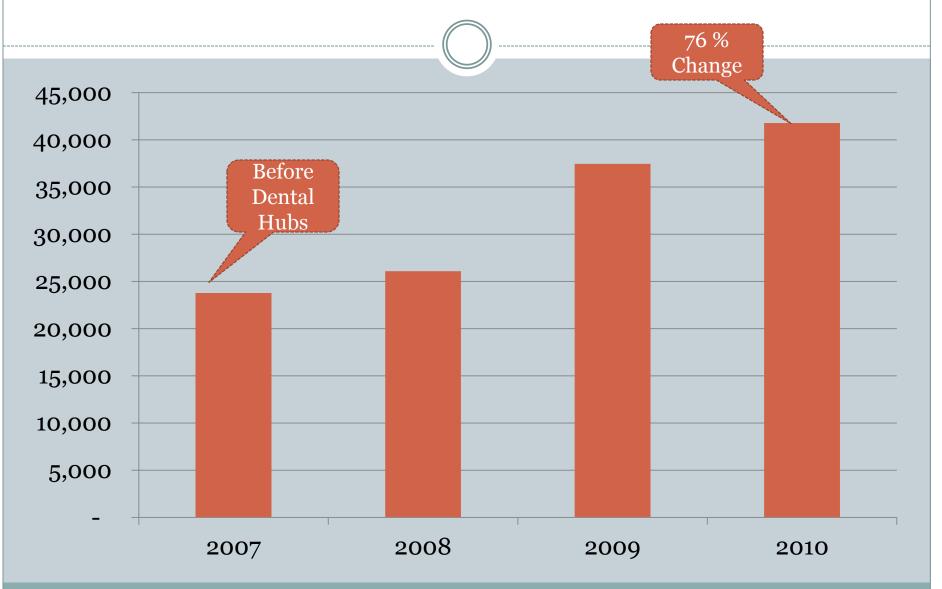
## How was the grant money spent?



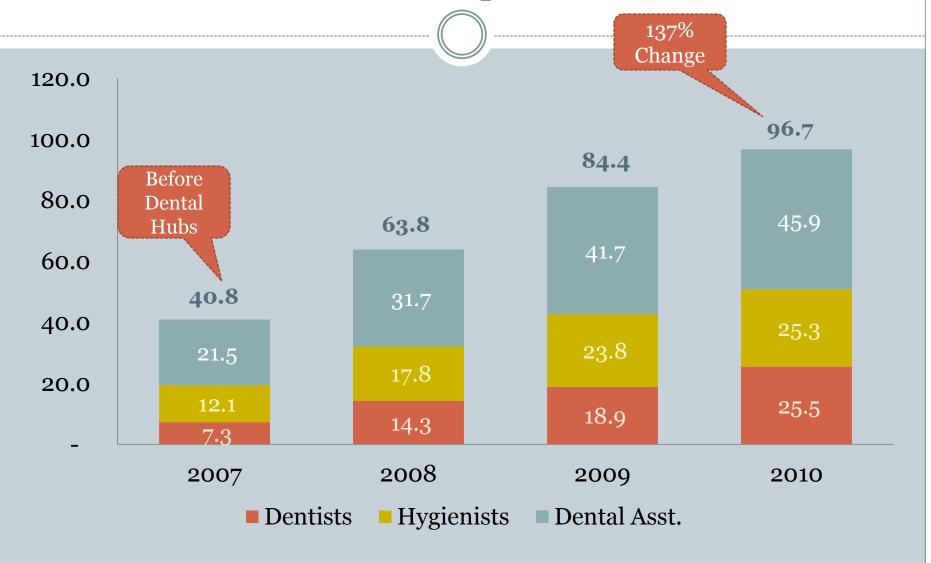
### Expansion of Dental Visits, 2007-2010



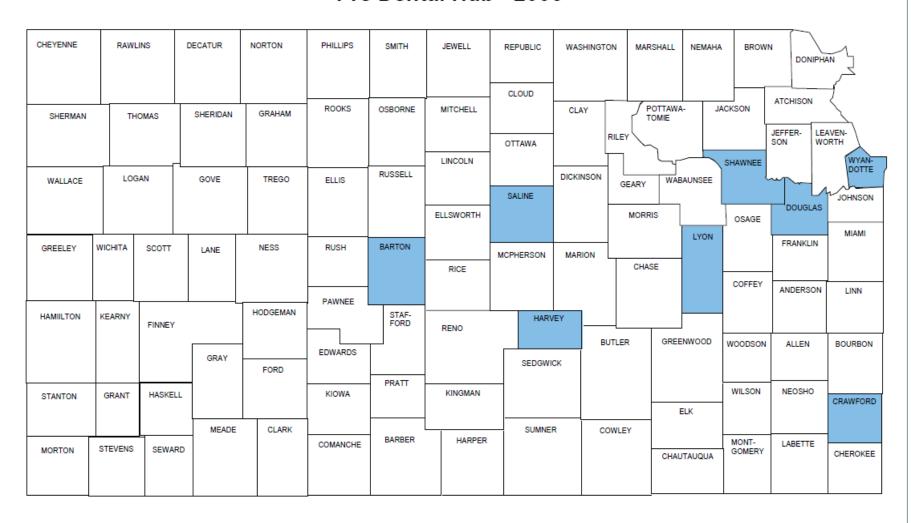
### **Expansion of Dental Patients, 2007-2010**



# **Expansion of Dental Professionals, 2007-2010 (Full-Time Equivalents)**



#### Kansas Dental Safety Net Clinics Pre Dental Hub - 2006



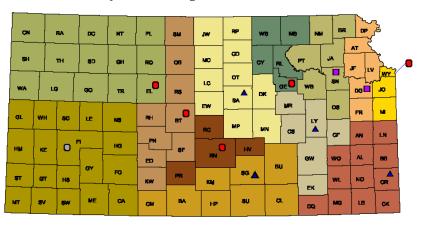
### **Geographic Expansion**



#### As Planned (2006)

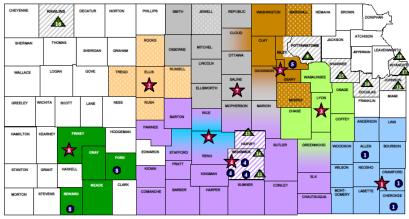
#### As Implemented (2010)

#### **Proposed Regional Dental Hubs**



- Proposed Dental Clinic Site (FQHC or FQHC Look Alike)
- Under Consideration (FQHC)
- Existing Dental Clinic Site (FQHC or FQHC Look Alke)
- Exleting Dental Clinic Site (Non FQHC)

#### KAMU Kansas Safety Net Dental Clinics, Dental Hubs, and Spokes - 2011



Clinics receiving Dental Hub funding from the State and/or Private Foundations

- 1. Community Health Center of Southeast Kansas
- 2. First Care Clinic
  3. Flint Hills Community Health Center
- 4. GraceMed Dental Clinic & Spokes
- 5. Konza Prairie Community Health Center & Spokes
- 6. PrairieStar Health Center 7. Salina Family Health Care Center
- 8. United Methodist Mexican-American Ministries, Inc.

#### Other Safety Net Dental Clinics

- 9. Community Health Ministry Clinic
- 10. Douglas County Dental Clinic
- 11. E.C. Tyree Health & Dental Clinic 12. Health Ministries Clinic
- 13. Health Partnership Clinic
- 15. Marian Dental Clinic 16. Rawlins County Dental Clinic
- 17 Southwest Boulevard Family Health Care
- 18. Swope Health Wyandotte and Swope Health West

\* Existing Hub

Existing ritub
Solid color counties surrounding dental
hubs show areas that ECP hygienist are
providing screenings and other services
through portable outreach programs.

Existing Spoke

▲ Safety Net Dental Clinic

3/7/2011

### **Sustainability:**

### Think of safety net dental services as a small business

# Major causes of failure in small businesses

Poor management

- Lack of planning
- Insufficient capital

- Poor location
- Overexpansion

### Safety net response

- Governed by a community board that holds management accountable
- Planning is built into the hub process
- Grant program provided adequate start-up capital for an adequate length of time
- Co-located with other safety net health services
- Demand exceeds supply; but ability to expand is limited

### The Impact of the Grants on Sustainability

- Grants paid for capital expenditures for instruments, equipment, construction, and remodeling necessary to expand services
- Grants paid for operating expenses primarily provider salaries but also disposable supplies
  - Salaries and recruitment expense for new providers
- Lowering of fixed and variable costs made break-even possible at smaller volumes, assuring sustainability
- Impact of hiring more providers:
  - More providers means more units of service
  - More units of service means lower marginal and average costs
  - Lower marginal and average costs improves financial stability

### **Evidence of Sustainability**



