



# KANSAS-NEBRASKA TELEMEDICINE CONNECTION FOR METABOLIC DISORDERS

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NEBRASKA'S HEALTH SCIENCE CENTER  
A Partner with Nebraska Health System



# Background

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- Nebraska metabolic specialists
  - Hobart Wiltse, MD, PhD ( 1932 - 2007)
  - Bill Rizzo, MD, PhD
  - Karl Roth, MD
  - Richard Lutz, MD (GEM)
  - Brad Schaefer, MD (GEM)
  - Bruce Buehler, MD (GEM)
  - Horatio Plotkin, MD
  - Kathy Rossiter, ANP



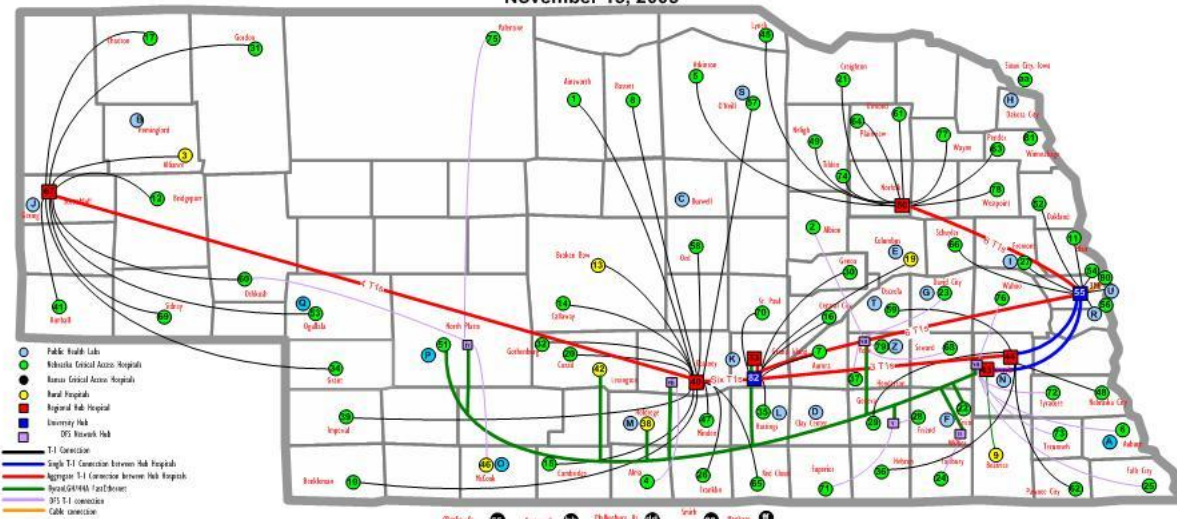
# Background

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- At the time of the submission of the proposal, there was no metabolic specialist in Kansas

# Background

## Nebraska Telehealth Network November 15, 2005



Nov 15, 2005 11:11 AM CST  
[http://networking/telehealth/nebraska/telehealth\\_network\\_11/15/2005](http://networking/telehealth/nebraska/telehealth_network_11/15/2005)

Nebraska Hospitals		
1. Amesworth	Brown County	28. Friend
2. Atkinson	Boone County	29. Geneva
3. Alliance	Box Butte General	30. Geneva
4. Alma	Hartman County Health Sys	31. Gordon
5. Atkinson	West Holt	32. Goldenberg
6. Auburn	Nemaha County Memorial	33. Grand Island
7. Aurora	Memorial	34. Grant
8. Bassett	Rook County	35. Hastings
9. Beatrice	Beatrice Community	36. Hebron
10. Beatrice	Dundy County	37. Henderson
11. Blair	Memorie Community	38. Hokkege
12. Bridgeport	Morril County	39. Imperial
13. Broken Bow	Jerome Moham	40. Kearney
14. Callaway	Callaway District	41. Kimball
15. Cambridge	Tri-Valley Health System	42. Lexington
16. Central City	Litzenberg Memorial	43. Lincoln
17. Chadron	Chadron Community	44. Lincoln
19. Columbus	Columbus Community	45. Lynch
20. Council Bluffs	Council Bluffs Community	46. McCook
21. Creighton	Creighton Area	47. Minden
22. Crete	Butler Area	48. Nebraska City
23. David City	Jefferson County	49. Neligh
24. Fairbury	Community Medical Ctr.	50. Norfolk
25. Falls City	Franklin County	51. North Platte
26. Franklin	Franklin County	52. Oakland
27. Fremont	Fremont Area	53. Ogallala
		54. Omaha

Hospitals From Other States	
aa. Norton, KS	Norton County Hospital
bb. Oberlin, KS	Oberlin County Hospital
cc. Phillipsburg, KS	Phillips County Hospital
dd. Smith Center, KS	Smith County Memorial
ee. Smith Center, KS	Smith County Memorial
ff. Manhattan, KS	Jewell County Hospital

55. Omaha	University of Nebraska Medical Ctr
56. Omaha	Alegent Health Immanuel
57. O'Neill	Avera St. Anthony's
58. Ord	Valley County
59. Osceola	Arnie Jeffrey
60. Ososho	Garden County
61. Osmond	Osmond General
62. Pawnee City	Pawnee County
63. Pender	Pender Community
64. Plattsmouth	Plattsmouth Public
65. Red Cloud	Webster County
66. Red Cloud	Alegent Health
67. Scottsbluff	Regional West Medical Center
68. Seward	Seward Memorial
69. Sidney	Memorial Health
70. St. Paul	Howard County
71. Superior	Broadstone Memorial
72. Syracuse	Community Memorial
73. Talmadge	St. Elizabeth's
74. Tilden	McClure County Hospital
75. Valentine	Kearney County
76. Wadwell	St. Mary's
77. Wayne	Antelope Memorial
78. West Point	Faith Regional Health Svcs
79. York	Great Plains Regional Medical Ctr
80. Omaha	Ogallala Memorial
81. Winnebago	Ogallala Community Hospital
82. Grand Island	Methodist Hospital

Dark Fiber Solutions Network Hubs	
i. Lincoln Bryan LGH, 1500 S. 48th	
ii. Wilber Head End, 801 N. Main, Wilber	
iii. DFS York, 606 1/2 Grand Ave, York	
iv. NP GPRMC, 601 W. Leete St, North Platte	
v. Geneva Head End, 300 C. St. Geneva	
vi. Kearney Head End, 804 Ave. A, Kearney	

Nebraska Public Health Depts.	
A. Auburn	Southeast District Health Dept.
B. Heringford	Panhandle Public Health Dept.
C. Burwell	Loup Basin Public Health Dept.
D. Clay Center	Clay County Health Dept.
E. Columbus	East Central District Health Dept.
F. Crete	Public Health Solutions
G. David City	Butler County Health Dept
H. Dakota City	Dakota County Health Dept.
I. Fremont	Three Rivers Health Dept.
J. Geneva	Scotts Bluff County Health Dept.
K. Grand Island	Central District Health Dept.
L. Hastings	South Heartland District Health Dept.
M. Holdrege	Two Rivers Public Health Dept.
N. Lincoln	Lincoln-Lancaster County Health Dept.
O. McCook	Red Willow County Health Dept.
P. North Platte	West Central District Health Dept.
Q. Ogallala	Sandhills District Health Dept.
R. Omaha	Douglas County Health Dept.
S. O'Neill	North Central District Health Dept.
T. Osceola	Polk County Health Dept.
U. Papillion	Sarge/Jess Dept. of Health and Wellness
V. Trenton	Southwest Nebraska Public Health Dept.
X. Wayne	Northwest Nebraska Public Health Dept.
Y. Winer	Elkhorn Logan Valley Public Health Dept.
Z. York	Four Corners Health Dept.



# Background

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- “Utilization of Telemedicine services would allow Nebraska’s experience and technical expertise in newborn screening to be used for scarce clinical services in Kansas. Education for Kansas primary providers concerning identification, diagnosis, therapy, and follow up of metabolic diseases identified by newborn screening, as well as clinical services would be the chief aim of the program”



# Project Goals:

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- 1) Develop a direct tele-health link between Kansas and Nebraska metabolic genetics programs.
  - Establish primary tele-connections
  - Conduct regular meetings of the two programs to discuss program development, and infrastructure development
  - Transfer of screening and intervention protocols from Nebraska to Kansas



# Project Goals:

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- 2) Provide specific (case) consultations for metabolic disorders
  - For management of patients with known metabolic disorders
  - For newborn screening protocol issues
  - For specific patients with screen presumptive positives
  - For primary care physicians in Kansas for referrals



# Project Goals:

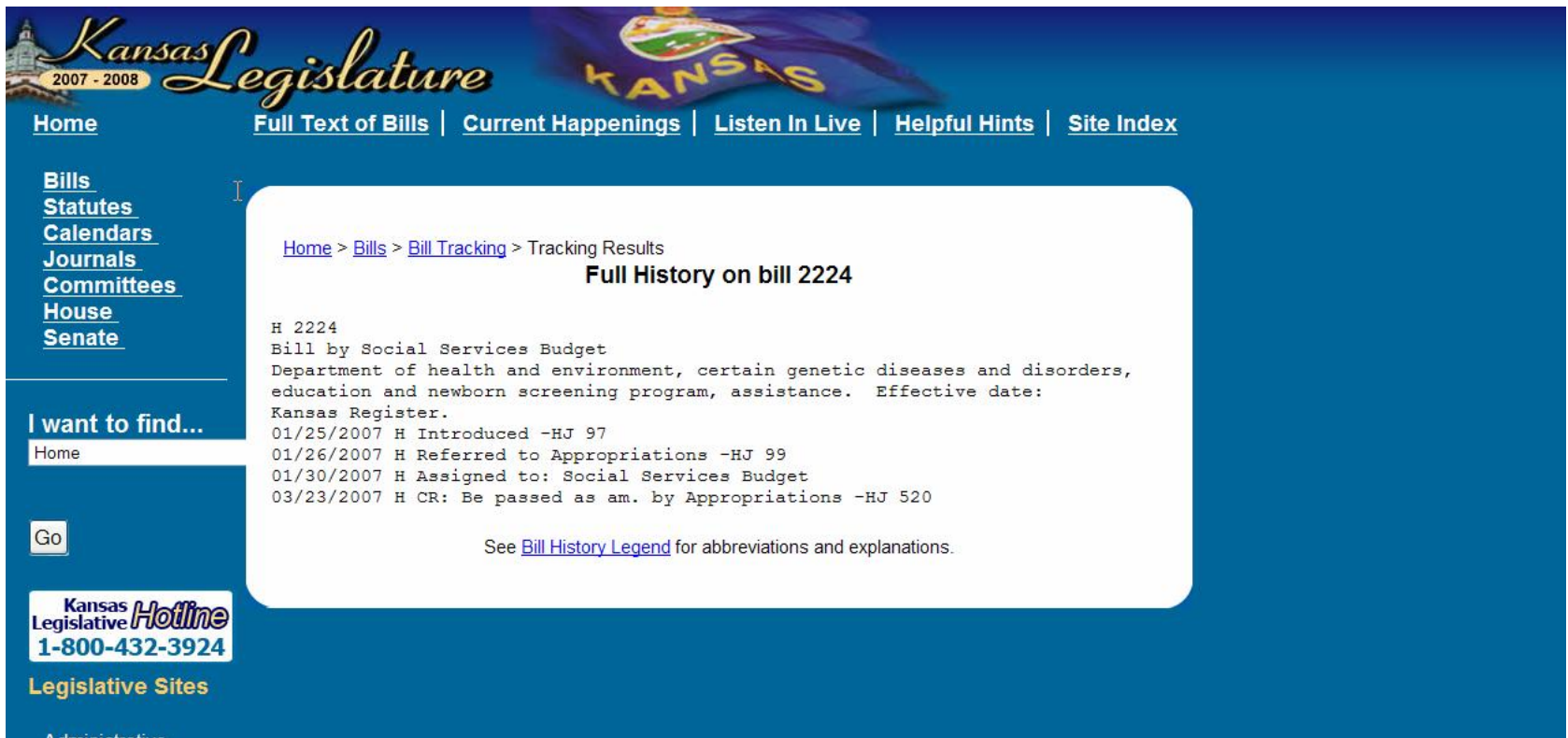
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## 3) Train Kansas personnel on metabolic evaluations and protocols

- Nebraska metabolic consultants to travel to KU for technical assistance
- Education of pediatric nurses and dieticians with updates testing and disorders
- Train program coordinator and counselor for NBS program

# Interval changes

- Dr. Majed Dasouki returns to KUMC



The screenshot shows the Kansas Legislature website for the 2007-2008 session. The main navigation bar includes links for Home, Full Text of Bills, Current Happenings, Listen In Live, Helpful Hints, and Site Index. A sidebar on the left lists various legislative resources like Bills, Statutes, Calendars, Journals, Committees, House, and Senate. A search box is present with the text 'I want to find...' and a 'Go' button. The main content area displays the 'Full History on bill 2224' with a breadcrumb trail: Home > Bills > Bill Tracking > Tracking Results. The bill details include its title, department, and a list of dates and actions: 01/25/2007 H Introduced -HJ 97, 01/26/2007 H Referred to Appropriations -HJ 99, 01/30/2007 H Assigned to: Social Services Budget, and 03/23/2007 H CR: Be passed as am. by Appropriations -HJ 520. A link to the Bill History Legend is provided for abbreviations and explanations.

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H 2224  
Bill by Social Services Budget  
Department of health and environment, certain genetic diseases and disorders,  
education and newborn screening program, assistance. Effective date:  
Kansas Register.  
01/25/2007 H Introduced -HJ 97  
01/26/2007 H Referred to Appropriations -HJ 99  
01/30/2007 H Assigned to: Social Services Budget  
03/23/2007 H CR: Be passed as am. by Appropriations -HJ 520

See [Bill History Legend](#) for abbreviations and explanations.



# New direction?

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- After extensive discussions, it was determined that Kansas would still be willing and able to use such support.
- There fore the overall goals did not change, rather the objectives to meet the goals will be adjusted to include Dr. Dasouki in the process



# Adjusted Work Plan

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- Consultation to Kansas
  - Metabolic grand rounds
  - Site visit (s)
- Strategic planning meetings
  - Discuss implementation of expanded NBS
  - Include KDHE
- Capacity building / technical assistance
  - Nursing / nutrition
- (?) Clinical back up
- Resource sharing
- Demonstration of feasibility



# Work to date

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- Conference calls (3). Next TBS
- Testing of telemed connections
- Planning of metabolic grand rounds
- Consultation regarding medical-legal issues of backup / consultation policies