

Network Adequacy Standards

Data Analysis Approach Compass Health Analytics Presentation

May 8, 2015

COMPASS HEALTH ANALYTICS AGENDA

- Project goals
- Approach
- Communities
- Services
- Examples

CHA PROJECT GOALS

- Assist NHID in setting new network adequacy standards
 - Provide the empirical foundation using claim and other data
 - Help shape the model that governs the revised standards
 - Assist in drafting the standards and reporting requirements

CHA APPROACH

- Develop NHID Conceptual Model
 - Communities
 - Not distance traveled per se
 - Aligned with markets
 - Work for both urban and rural settings
 - Services – not specific providers
 - Core
 - Common
 - Specialized
 - Highly specialized

NHID CONCEPTUAL MODEL: COMMUNITIES

- A NH city/town is the focus for access
 - True for health care and other services/goods
- Avoid focusing on member-specific travel times, if possible
- Community-specific requirements, with consideration for providers in neighboring states/counties
- Separately identify services that should be accessible locally and regionally

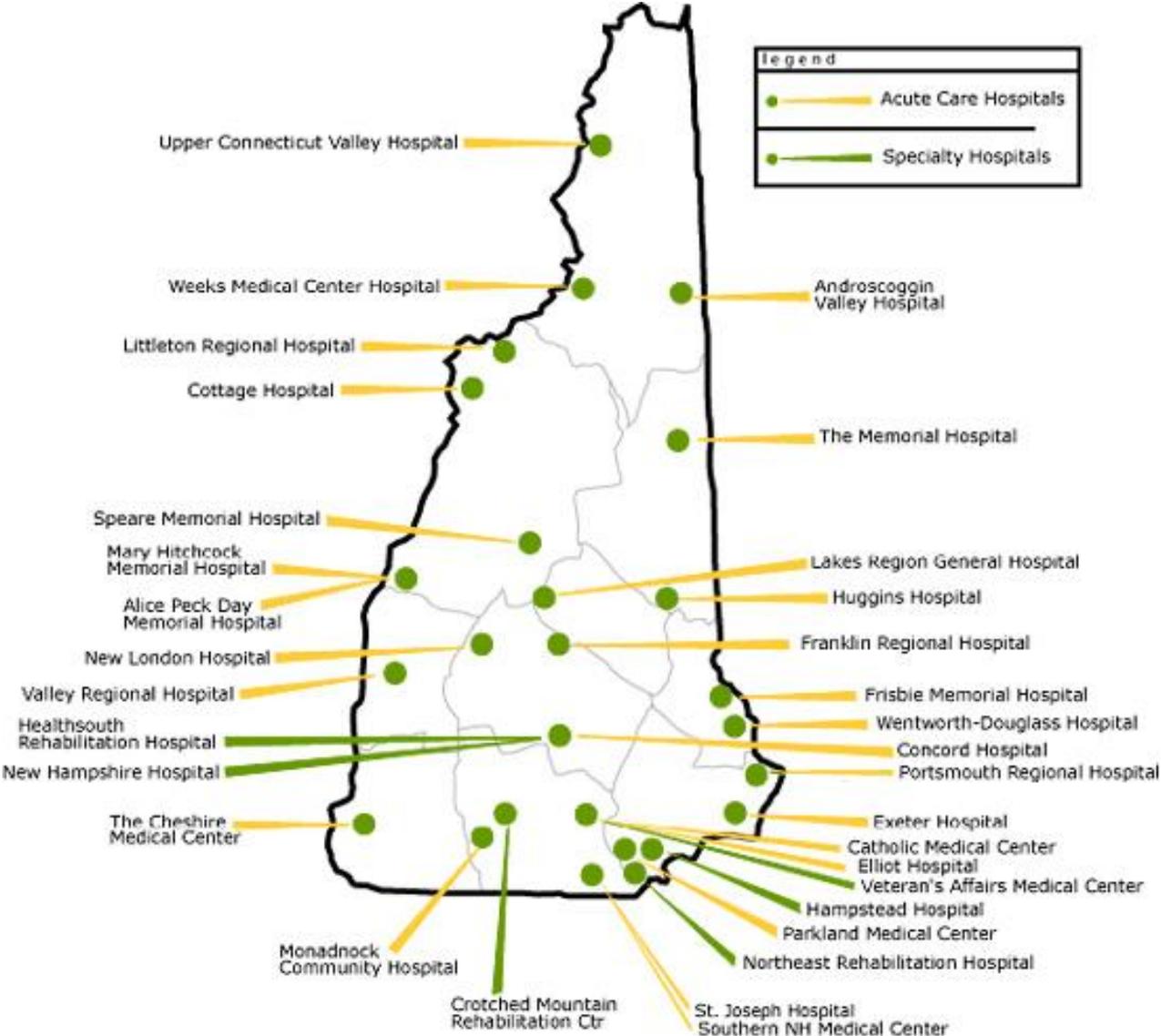
OPTIONS FOR DEFINING COMMUNITIES

- Zip code
 - Too small, many zip codes have no providers
- County
 - Too large, not related to travel patterns
- Hospital Service Area
 - Reasonable size
 - Related to how people travel for healthcare
 - Low administrative burden
 - Well known and understood

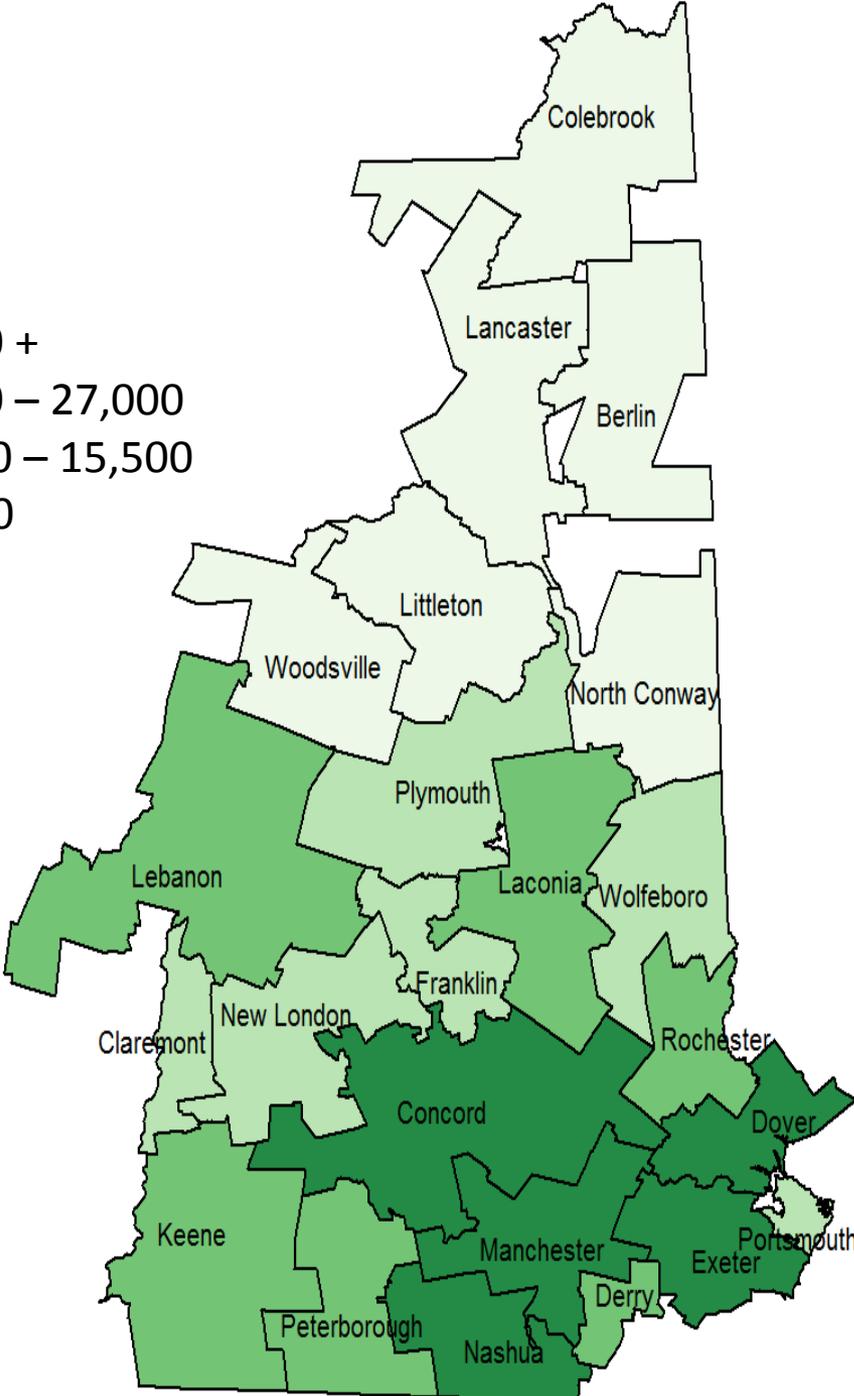
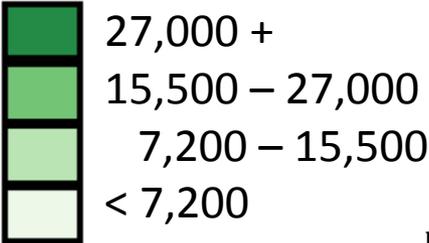
HOSPITAL SERVICE AREA (HSA)

- Defined by Dartmouth Atlas of Health Care
 - <http://www.dartmouthatlas.org/data/region/>
- “a collection of ZIP codes whose residents receive most of their hospitalizations from the hospitals in that area”
- “defined by assigning ZIP codes to the hospital area where the greatest proportion of their Medicare residents were hospitalized”

NH HOSPITALS



NH HSAs, COMMERCIAL MEMBER COUNTS



HSA POPULATION

Name	Census Population 2010
Berlin	15,235
Claremont	20,939
Colebrook	5,289
Concord	127,395
Derry	58,906
Dover	92,780
Exeter	99,672
Franklin	26,492
Keene	60,415
Laconia	51,990
Lancaster	15,698
Lebanon	71,521

Name	Census Population 2010
Littleton	15,936
Manchester	211,763
Nashua	191,560
New London	29,921
North Conway	17,865
Peterborough	37,192
Plymouth	21,665
Portsmouth	31,364
Rochester	49,956
Wolfeboro	26,635
Woodsville	15,780

NHID CONCEPTUAL MODEL: SERVICES

- Classify services based on appropriate access levels
 - Core services – available within the community (primary care, mental health)
 - Common services – moderate travel may be necessary (surgery)
 - Specialized services – potential centers of excellence (cardiovascular treatment, neurological services)
 - Highly specialized services – available within New England (transplants, burn treatment)

ANALYTIC APPROACH

- Network Adequacy based on services, not specific providers
- Describe in more detail the services for each level of access

USE OF NH CHIS TO OBSERVE SERVICES

- Count services
 - By type of service
 - By where member lives and where provider practices
- Observe where people are going today to get healthcare
- Inform rulemaking process

INFORMATION AVAILABLE FOR DEFINING SERVICES

- Specialty codes
 - Claims, National provider database
- Procedure Codes
 - CPT/HCPCS: what providers get paid for
 - Groupers:
 - BETOS
 - CCS
 - Revenue codes: how hospitals categorize billing
 - ICD9 procedure codes: used for inpatient events
- Diagnosis Related Groups (DRG)
- Facility types
 - ER, CAH, Tertiary care, Specialty hospitals

EXAMPLE: CORE SERVICES ACCESS WITHIN THE COMMUNITY

- Primary care (internal medicine, family practice/general practice)
- Pediatrics
- Obstetrics
- Mental health care
- Substance abuse treatment
- Urgent care/emergency services
- Laboratory services (drawing only)

PRIMARY CARE CLAIMS

CPT Code	CPT Description	% Services in SAME_HSA	% Services in SAME or ADJACENT_HSA	Number of Distinct Service Providers of this CPT code	BETOS Category Description
99202	Office/outpatient visit new	65%	93%	1,124	Office visits - new
99203	Office/outpatient visit new	65%	94%	2,238	Office visits - new
99395	Prev visit est age 18-39	67%	95%	1,836	Office visits - established
99396	Prev visit est age 40-64	71%	96%	2,318	Office visits - established
90460	Im admin 1st/only component	68%	97%	298	Immunizations/Vaccinations
90471	Immunization admin	72%	96%	2,306	Immunizations/Vaccinations
Q0091	Obtaining screen pap smear	66%	95%	620	Minor procedures - other (Medicare fee schedule)
36415	Routine venipuncture	73%	96%	1,692	Lab tests - routine venipuncture (non Medicare fee schedule)
81003	Urinalysis auto w/o scope	66%	95%	547	Lab tests - urinalysis
81025	Urine pregnancy test	65%	94%	674	Lab tests - urinalysis
80061	Lipid panel	72%	97%	661	Lab tests - other (non-Medicare fee schedule)
82270	Occult blood feces	67%	95%	486	Lab tests - other (non-Medicare fee schedule)
84443	Assay thyroid stim hormone	75%	97%	393	Lab tests - other (non-Medicare fee schedule)
85610	Prothrombin time	78%	97%	489	Lab tests - other (non-Medicare fee schedule)
87880	Strep a assay w/optic	69%	96%	1,257	Lab tests - other (non-Medicare fee schedule)
93000	Electrocardiogram complete	67%	95%	1,769	Other tests - electrocardiograms

PRIMARY CARE SERVICES

- Core
 - Preventive Visits
 - Routine acute care
 - Immunization Administration
 - Lab services (drawing only)
 - EKG
 - Screening tests
 - Routine lab tests

EXAMPLE: CORE SERVICES ACCESS WITHIN THE COMMUNITY

- Primary care (internal medicine, family practice/general practice)
- **Pediatrics**
- Obstetrics
- Mental health care
- Substance abuse treatment
- Urgent care/emergency services
- Laboratory services (drawing only)

EXAMPLE: PEDIATRICS

CPT Code	CPT Description	% Services in SAME_HSA	% Services in ADJACENT_HSA	Number of Distinct Service Providers of this CPT code	BETOS Category Description
99212	Office/outpatient visit est	67%	95%	346	Office visits - established
99213	Office/outpatient visit est	69%	95%	1,098	Office visits - established
99392	Prev visit est age 1-4	69%	95%	488	Office visits - established
96110	Developmental screen	54%	92%	514	Specialist - other
90648	Hib vaccine prp-t im	71%	95%	227	Immunizations/Vaccinations
90656	Flu vaccine no preserv 3 & >	73%	96%	231	Immunizations/Vaccinations
90723	Dtap-hep b-ipv vaccine im	71%	95%	238	Immunizations/Vaccinations
99173	Visual acuity screen	62%	96%	375	Eye procedure - other
81002	Urinalysis nonauto w/o scope	72%	96%	276	Lab tests - urinalysis
87880	Strep a assay w/optic	70%	96%	512	Lab tests - other (non-Medicare fee schedule)
92551	Pure tone hearing test air	59%	95%	237	Other tests - other

EXAMPLE: PEDIATRICS

- Core
 - Preventive Visits
 - Routine acute care
 - Immunization Administration
 - Lab services (drawing only)
 - Routine lab tests
- Common
 - Developmental evaluation
 - Vision and hearing evaluations

NEXT STEPS

- Use similar technique to supplement model with more details
- Core
- Common
- Specialized
- Highly specialized

QUESTIONS AND DISCUSSION

FEEDBACK

- **Send your feedback.** Please email comments to Danielle.Barrick@ins.nh.gov by May 22.