







Comparing Data Sources for Health Care Expenditures

Three Examples

1. CMS State Health Care Expenditure Accounts (SHEA)
2. GMCB Vermont Healthcare Expenditure Analysis (VHEA)
3. The Dartmouth Atlas of Health (DAH)

High Level Comparison

	Include different types of expenditures from multiple payers	Derived from detailed source data	Same types of data available across states
SHEA			
VHEA			
DAH			

Data Sources

	Type of Data	Examples
SHEA	Data available for all states	National surveys, IRS, Medicare claims
VHEA	Detailed Vermont data	VHCURES, hospital budgets, Vermont-specific survey
DAH	Medicare claims and supplementary sources	Age-adjusted hospital discharges


Health Care Expenditures per Capita by Service by State of Residence

Timeframe: 2014


REFINE RESULTS

 TABLE |
  MAP |
  TREND GRAPH

Tools:

TIMEFRAME 

2014 ▼

DISTRIBUTIONS 

Clear All Selections

- Hospital Care
- Physician and Clinical Services
- Other Professional Services
- Prescription Drugs and Other Medical Nondurables
- Nursing Home Care
- Dental Services
- Home Health Care
- Medical Durables
- Other Health, Residential, and Personal Care

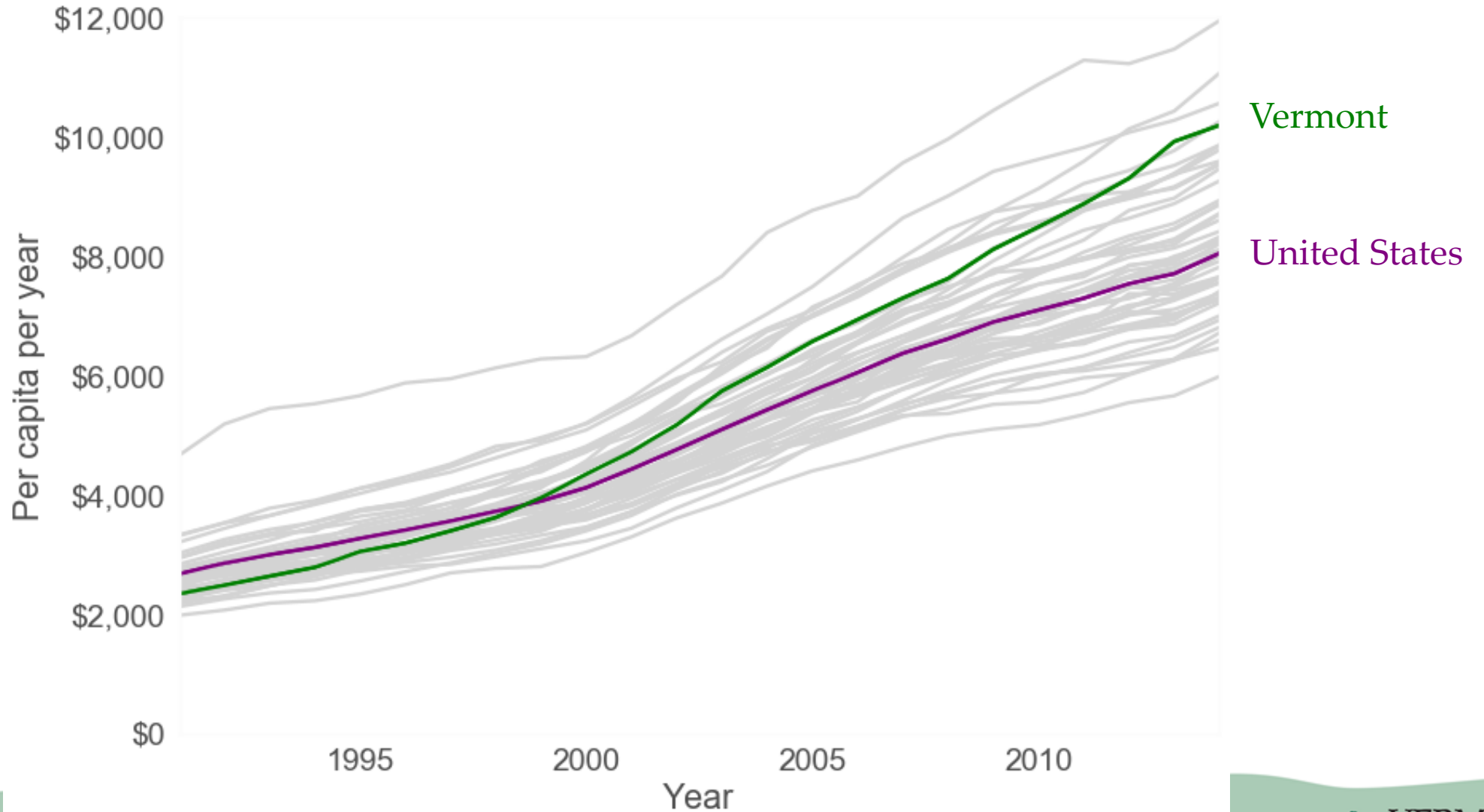
Location	Hospital Care	Physician and Clinical Services	Other Professional Services	Prescription Drugs and Other Medical Nondurables
1. District of Columbia	\$5,233	\$2,457	\$223	\$1,171
2. Alaska	\$4,715	\$3,368	\$465	\$640
3. Vermont	\$4,670	\$1,750	\$321	\$1,158
4. North Dakota	\$4,479	\$1,713	\$260	\$1,175
5. South Dakota	\$4,415	\$1,635	\$256	\$949
6. Delaware	\$4,078	\$2,259	\$348	\$1,525
7. West Virginia	\$4,037	\$1,807	\$238	\$1,377
8. Wyoming	\$4,001	\$1,771	\$377	\$751
9. Maine	\$3,953	\$1,684	\$329	\$1,159
10. Massachusetts	\$3,933	\$2,264	\$301	\$1,250
11. Ohio	\$3,809	\$1,779	\$233	\$1,023
12. New Hampshire	\$3,771	\$2,227	\$263	\$1,222

<https://www.kff.org/other/state-indicator/health-spending-per-capita-by-service/?currentTimeframe=0&sortModel=%7B%22colId%22:%22Location%22,%22sort%22:%22asc%22%7D>

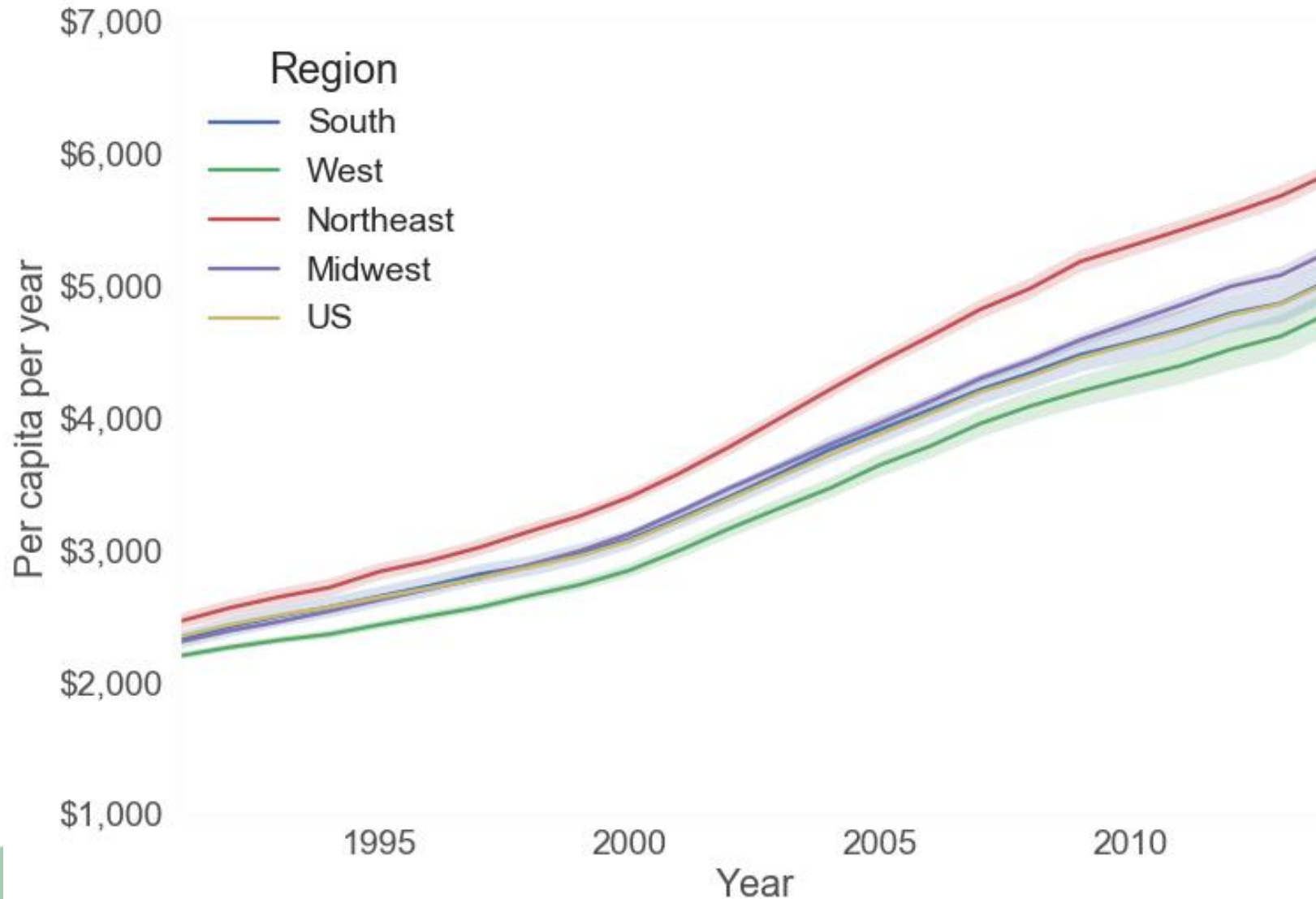
SHEA Per Capita Comparisons by Service Sector are Limited

	Vermont		Connecticut	
	\$	Rank	\$	Rank
Hospital Care	4,670	3	3,326	23
Physician and Clinical Services	1,750	31	2,186	8
Other Professional Services	321	11	322	10
Prescription Drugs and Other Medical Nondurables	1,158	25	1,476	2
Nursing Home Care	563	20	854	1
Dental Services	463	6	469	5
Home Health Care	301	5	296	6
Medical Durables	129	37	141	27
Other Health, Residential, and Personal Care	837	6	790	10
TOTAL	10,192	5	9,860	6

SHEA Total Per Capita Spend Over Time



SHEA Total Per Capita Spend Over Time



SHEA Methodology

SHEA start with estimates based on the state where the care was delivered.

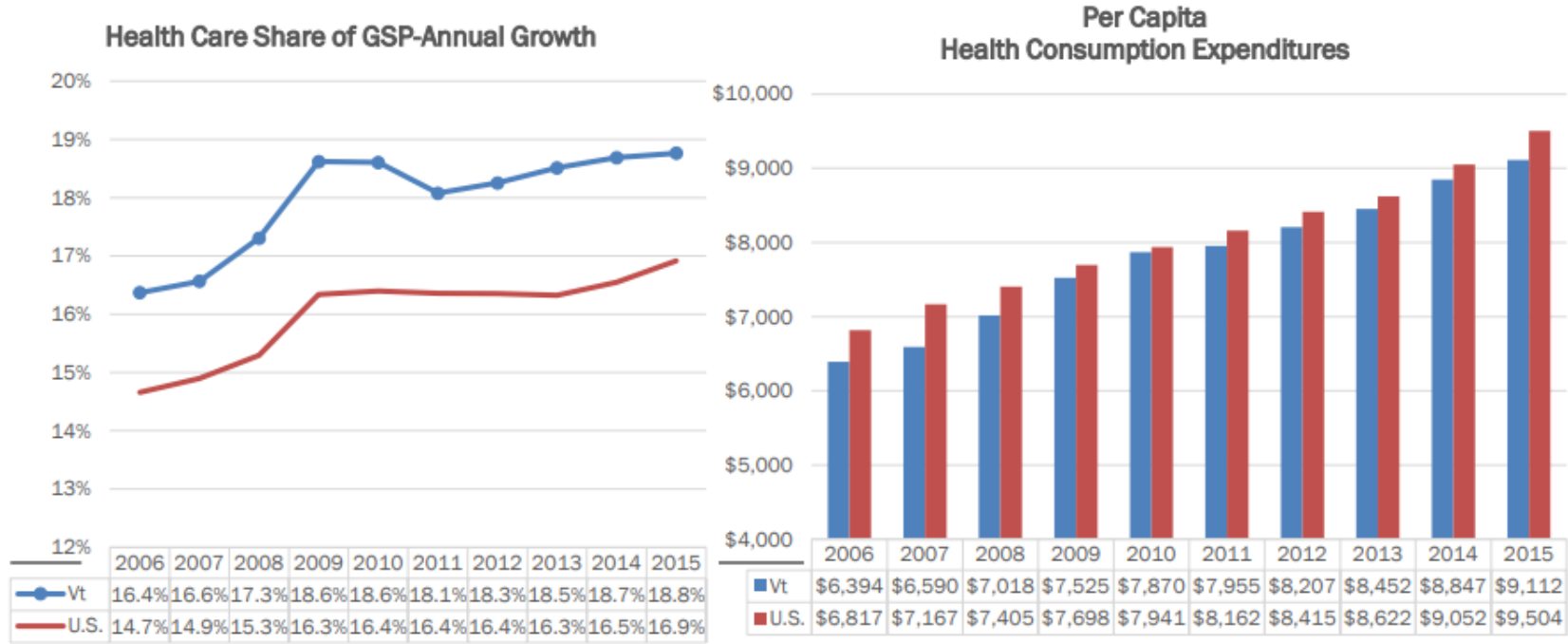
Then service sector level estimates are adjusted to where patients live based on:

- Patterns of care in Medicare fee-for-service (under 65 and 65+)
- National database of private inpatient discharges
- Database of private physician claims

The estimates do not account for seasonal migration, which is assumed to be most significant for Medicare spending.

GMCB 2015 VHEA

Vermont compared to CMS National Expenditures (NHE)

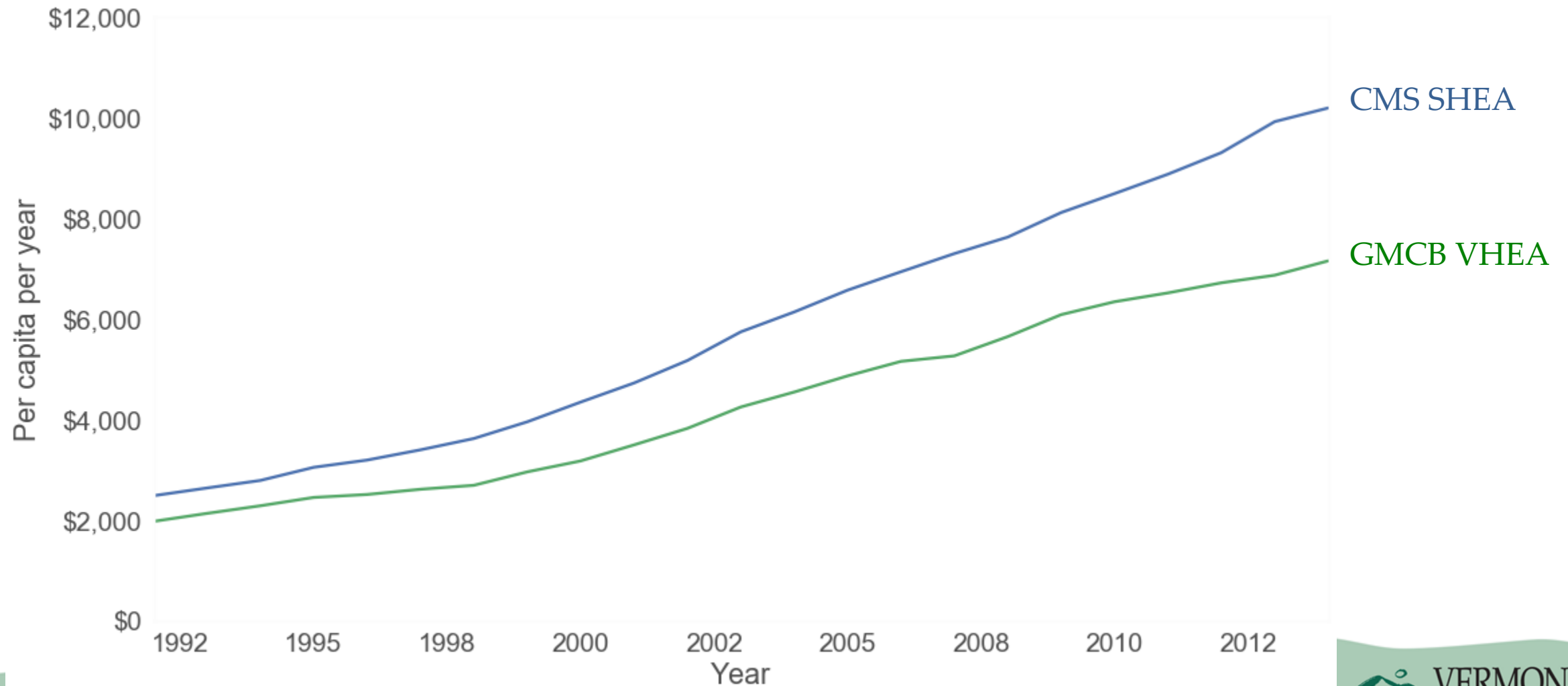


Note: Gross State Product (GSP), or Gross Regional Product (GRP), is a measurement of the economic output of a state. It is the sum of all value added by industries within the state and serves as a counterpart to the Gross Domestic Product (GDP).

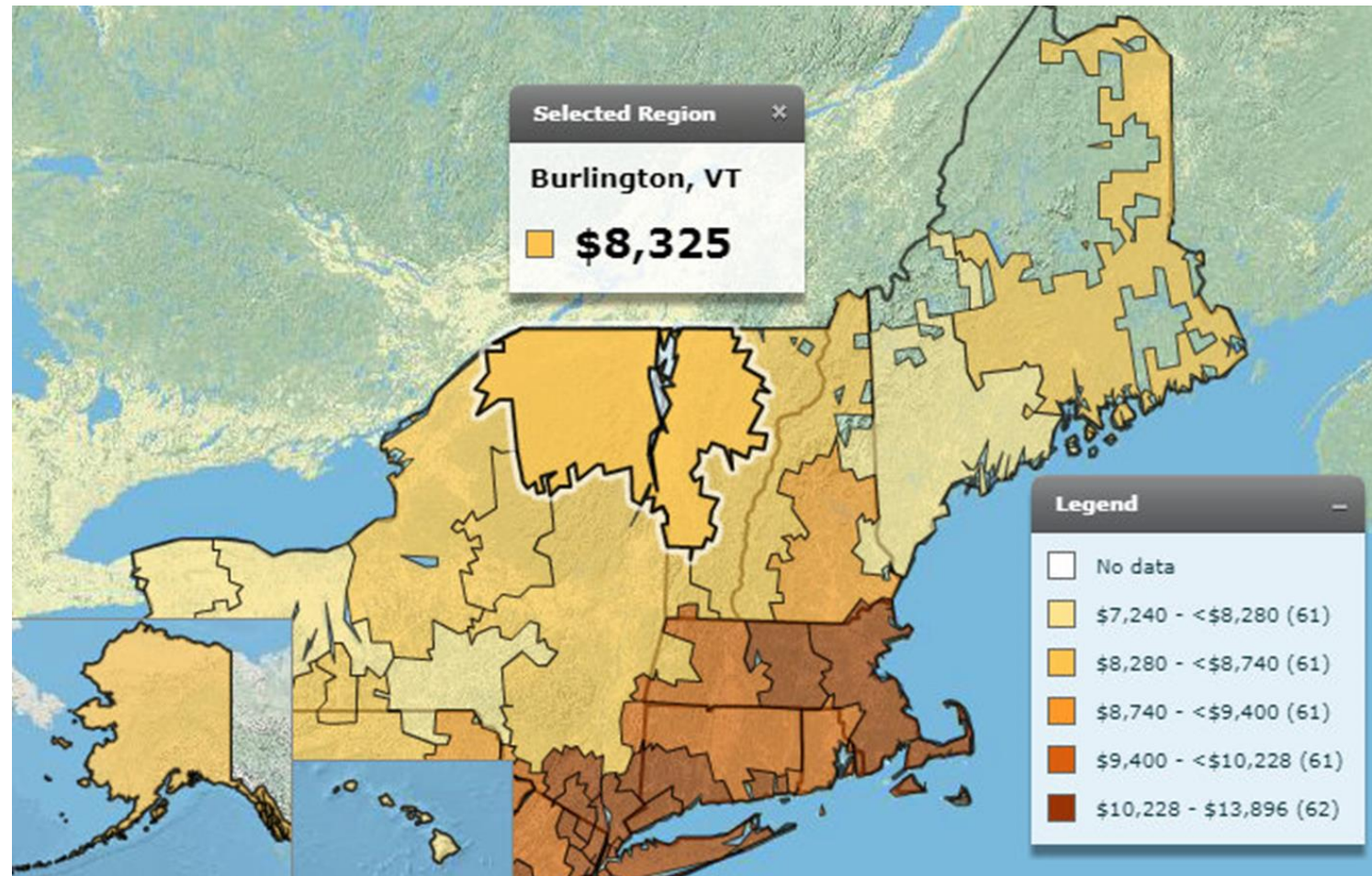
Source: US data from CMS: NHE Health Consumption Expenditures

http://gmcbboard.vermont.gov/sites/gmcb/files/files/resources/reports/2015%20Expenditure%20Analysis_short_version_final.pdf

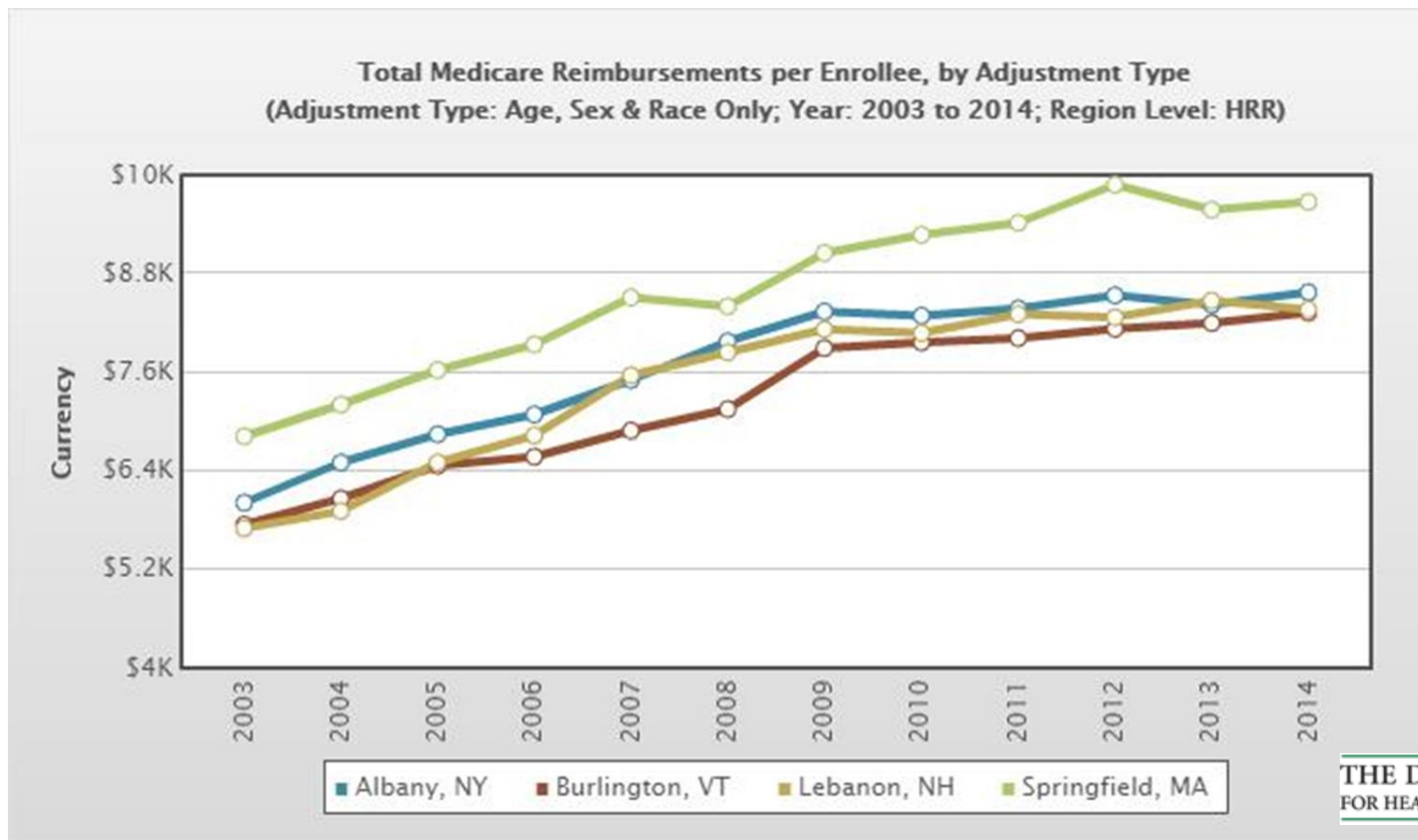
Vermont Per Capita Spend Over Time



DAH Hospital Referral Regions



Per Enrollee Spend for Vermont Hospital Referral Regions



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In Summary

- No data source is perfect.
- The most appropriate data source(s) will depend on the question(s) at hand.
- Analyses based on where a person resides can look much different than those based on where the care was delivered, especially in states with substantial amounts of border crossing (e.g. Vermont).