



Mapping Our Way to Improving Care:

Cross-Product Comparison of Quality Metrics in California

National Value-Based Payment and Pay for Performance Summit

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Overview

- **Goal**
 - Present healthcare quality and utilization data by geographic region and product line.
 - Create an interactive mapping tool with downloadable data.
- **Participating Plans**

Anthem	Kaiser Permanente
Blue Shield of CA	LA Care
CalOptima	San Francisco Health Plan
Health Net	SCAN
Inland Empire Health Plan	UnitedHealthcare
	Western Health Advantage
- **Funding from California HealthCare Foundation**
January 2014 – June 2015

Performance Metrics and Product Lines

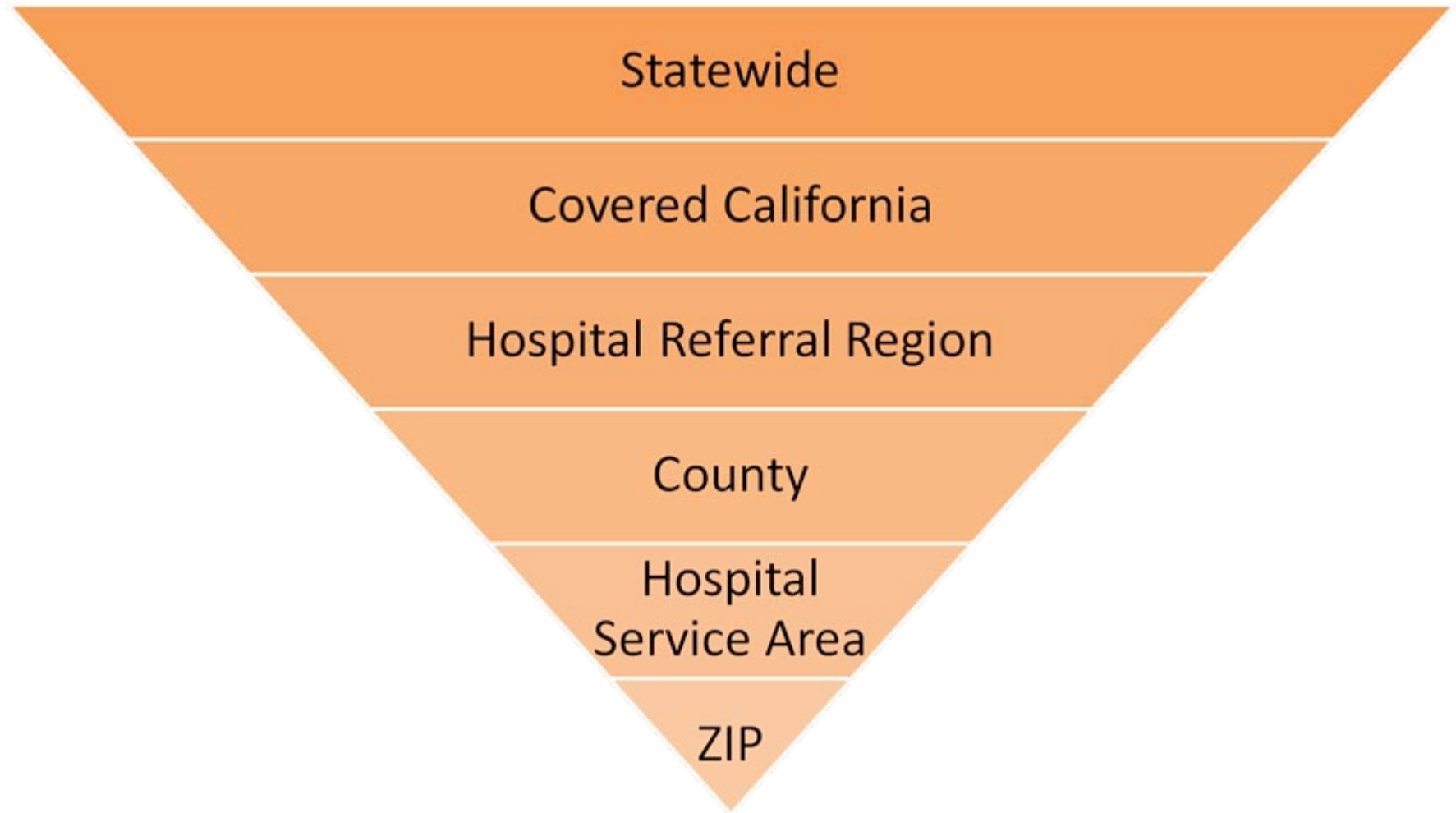
- Nine measures were collected and reported

Quality Metrics		Resource Use Metrics
Breast Cancer Screening	Diabetes Care: HbA1c Poor Control	All-Cause Readmissions
Colorectal Cancer Screening	Diabetes Care: HbA1c screening	ED Visits
Medication Management for People with Asthma	Diabetes Care: Nephropathy Monitoring	Bed Days

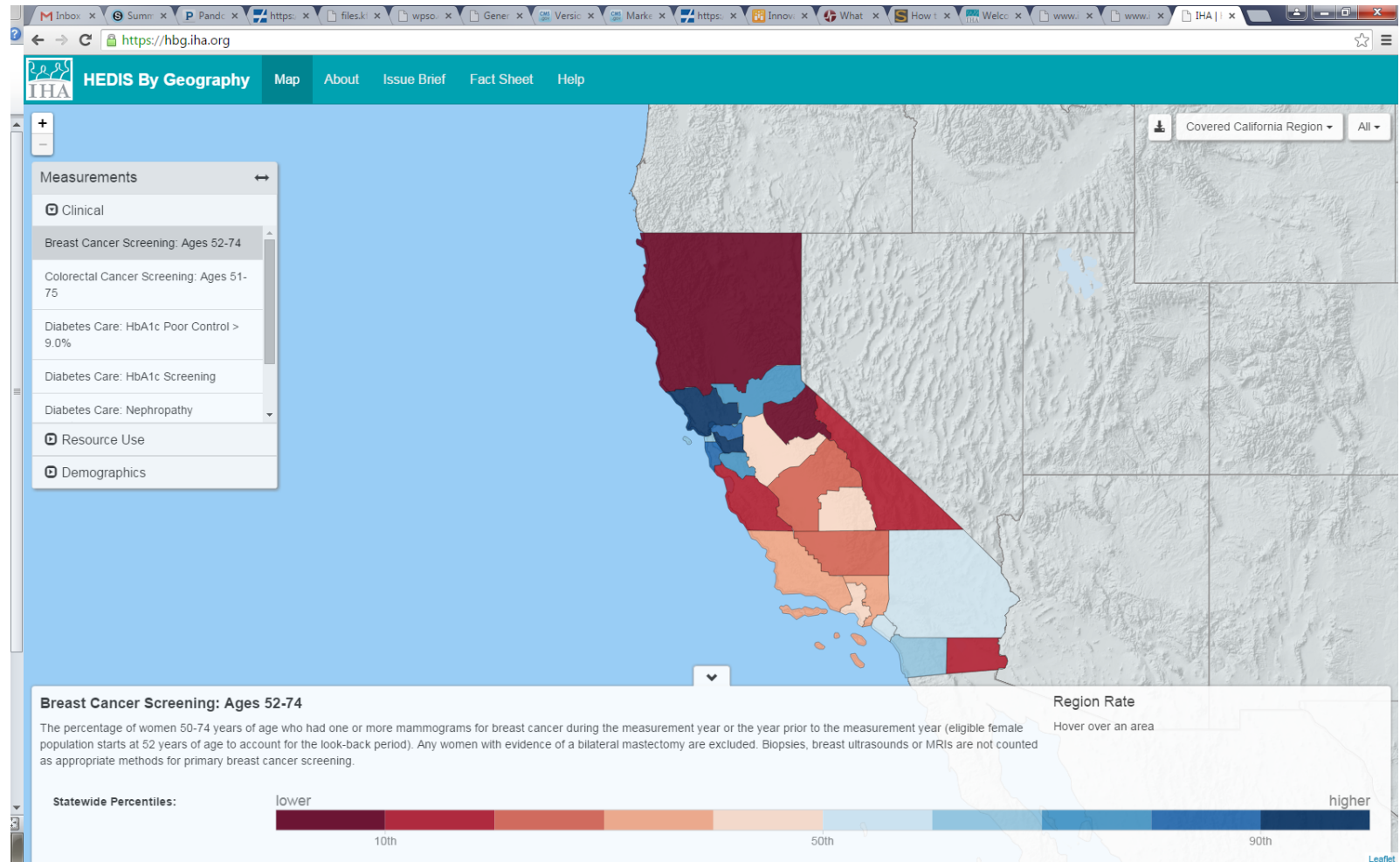
- Almost half of the population of California is included

Product Line	Enrollment
Commercial HMO/POS	8.5 million
Commercial PPO	4.7 million
Medicare Advantage	1.7 million
Medi-Cal	4.1 million
Total	19 million

Geographic Regions



HEDIS by Geography (hbg.iha.org)



Results

Two Themes

- Health plan products that rely primarily on **integrated care delivery networks** generally have:
 - higher quality scores
 - without using more resources
- Resource use and quality vary widely throughout the state

Quality by Product Line

- Commercial HMO outperforms commercial PPO

	Statewide Rate (%)				
Measure Name	Commercial HMO	Commercial PPO	Medicare Advantage	Managed Medicaid	All Products
Breast Cancer Screening	84.5	69.7	86.8	57.4	80.7
Colorectal Cancer Screening	71.1	47.5	79.4	N/A	67.1
Blood Sugar Control for People with Diabetes	70.3	24.5	77.9	42.9	62.4
Blood Sugar Screening for People with Diabetes	91.6	80.7	95.0	78.3	89.3
Kidney Disease Monitoring for People with Diabetes	90.1	70.7	95.8	79.8	87.5
Medication Management for People with Asthma	40.1	44.1	N/A	35.4	39.7

Implications of Screening Rate Differences

- Significant differences in screening rates between HMO and PPO
 - 15 percentage points for breast cancer screening
 - 24 percentage points for colorectal cancer screening
- Breast cancer: 55,356 more women would have received mammograms in 2013
- Colon cancer: 197,385 more Californians would have been screened

Quality by Product Line

- Strong performance in Medicare HMO

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Quality by product line

Medi-Cal quality scores mixed; population more complex

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Resource Use by Product Line

- Commercial HMO and PPO similar

	Statewide Rate					
Measure Name	Commercial HMO	Commercial PPO	Medicare FFS	Medicare Advantage	Managed Medicaid	
					non SPD	SPD
Readmissions (% of admissions)	8.1	8.1	18.4	11.2	8.7	16.4
ED Visits (per thousand member years)	159.3	116.3	567	372.3	421.5	392.4
Inpatient Bed Days (per thousand member years)	133.5	133.3	1,363	758.3	121.5	534.5

Resource Use by Product Line

- Medicare Advantage utilization much lower than FFS

Caveat: FFS data from a different source, and likely include more duals

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Resource Use by Product Line

- Managed Medi-Cal readmissions driven by seniors and persons with disabilities (SPD)

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Resource Use by Product Line

- Managed Medi-Cal emergency department visit rate high

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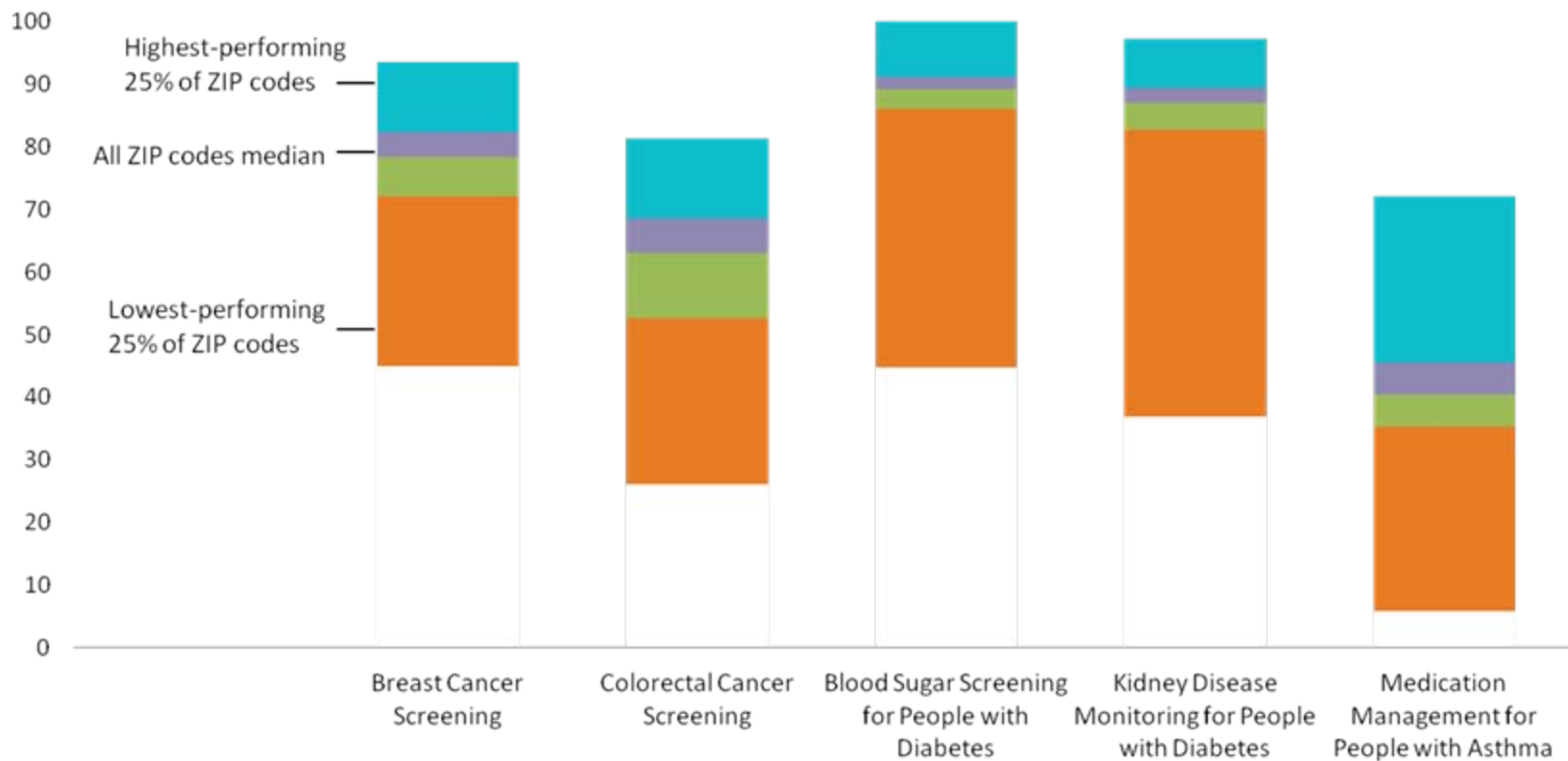
Resource Use Variation Across ZIP Codes

- Large variation across ZIP codes for resource use
- Over 5-fold difference in inpatient bed days from the 5th percentile ZIP code to the 95th percentile

Percentiles Across ZIP Codes			
Resource Use Measures	5th Pctl	50th Pctl	95 Pctl
Readmissions (% of admissions)	4.9	9.9	14.1
ED Visits (per thousand member years)	111.3	193.9	385.4
Inpatient Bed Days (per thousand member years)	75.7	195.4	412.9

Quality Variation Across ZIP Codes

Large variation across ZIP codes, mostly in the lowest quartile



Colorectal Cancer Screening Across Counties

The rate of colorectal cancer screening in Modoc, the lowest performing county, trails that of Solano by 43 percentage points

Colorectal Cancer Screening					
10 Highest Performing Counties			10 Lowest Performing Counties		
County	Rank	Rate	County	Rank	Rate
Solano	1	76.4	Modoc	58	33.5
Contra Costa	2	74.3	Mono	57	39.6
Alameda	3	74.2	Plumas	56	39.9
Marin	4	73.9	Trinity	55	43.0
Sonoma	5	72.4	Glenn	54	43.1
Napa	6	72.1	Tehama	53	43.6
San Joaquin	7	71.6	Lassen	52	44.2
San Mateo	8	71.6	Sierra	51	45.0
San Francisco	9	71.4	Inyo	50	45.6
Placer	10	71.1	Lake	49	45.9

Next Steps

- Building out map to add in cost data (Cost and Quality Atlas project)
- Pursuing a second round of data collection, updating with 2015 data (post-ACA implementation)
- Interested in using results to improve care, health
 - Opportunities to improve access, reduce ED rates?
 - Opportunities to focus improvement efforts in specific geographic areas?
 - Other opportunities?