

THE ILLUSIVE SEARCH FOR A CONNECTION BETWEEN THE QUALITY AND COST OF CARE

David Wennberg, Chief Science & Products Officer Health Dialog March 15, 2011

Unwarranted Variation

Variations that cannot be explained on the basis of illness, scientific evidence or well-informed patient preferences



Where the money goes now



Health Dialog internal data

Agenda

- 1. Finding the connection : Patients
- 2. Finding the connection : Physicians
- 3. Are PCMHs or ACOs a solution to the conundrum?

FINDING THE CONNECTION:

PATIENTS

Patient segmentation: finding the opportunities

Patients are a lot like people... they are all different

High Lifestyle Risk

- Patients at high risk for any of the following lifestyle issues:
 - Tobacco Use
 - Overweight/Obesity
 - Cardiometabolic Risk



Patients by segment



Patient Distribution 70% 60% 50% 40% 30% 20% 10% 0% Chronic Chronic & PSC PSC Risk **High Risk** High & Lifestyle Risk Lifestyle Risk

Sample data - for illustrative purposes only

Chronic and high cost Cells B and F

- 5% of Patients, 25% of costs
- Multiple co-morbidities
- High utilization





Sample data – for illustrative purposes only

'Other' high cost Cells I and J

- High cost (but not chronic)
- In pain and at risk for surgery
- High utilization



Sample data – for illustrative purposes only

But, is it

avoidable?

High cost, less served Cells M and N

- High cost (but not chronic or preference-sensitive)
- High prevalence of anxiety and depression
- High utilization



\$20,000

But, is it

avoidable?

Clinical opportunities: patients with low predicted costs Cells O and P



- 80% of patients (20% of costs!)
- They are much younger
- Wellness is primary concern

Metric	Cell O	Cell P	All Others
metric	Cento	Cent	All Others
Patients	42,251	59,920	44,464
Total Population	28.8%	40.8%	30.3%
Avg Age	44	48	62
Female	42.9%	63.5%	54.7%
Avg .Predicted Cost	\$1,231	\$1,240	\$5,547
Hypertension	32.9%	8.1%	59.0%
Cardiometabolic Risk	22.7%	-	46.7%
Overweight / Obesity	4.7%		5.2%
Cholesterol Screening Gap	18.4%	22.8%	15.0%
Colorectal Screening Gap	16.1%	17.7%	20.4%
Mammography Gap	16.5%	21.9%	24.5%
Pap Test Screening Gap	13.4%	11.8%	9.0%



Clinical opportunities: patients with chronic conditions Cells A through H



Prevalence of Gaps in Care by Cell

Distribution of Members with 1+ Gap in Care



Opportunities to close clinical gaps in care are EVERYWHERE

However MOST of the CLINICAL opportunities are not where the MONEY is.....

Clinical opportunities: patients with diabetes Cells A through H





Prevalence of Diabetes Eye Exam Gap by Cell

Distribution of Patients with Diabetes Eye Exam Gap



Opportunities to improve care for patients with diabetes are EVERYWHERE..... However MOST of the CLINICAL opportunity is not where the MONEY is.....

Clinical opportunities: patients with emerging risk Cells A through P



80% of obese patients and 50% of tobacco users are in cell O

(not where the MONEY is.....)

Clinical opportunities: patients with emerging risk Cells O and P



Most patients without PCP visits are in the lowest risk (highest N) CELLS.....

However MANY HIGH RISK patients lack a MEDICAL HOME

Yes Virginia, it is avoidable





Wennberg DE, Marr A, Lang L, O'Malley S, Bennett GB.

A Randomized Trial of a Telephone Care-Management Strategy. N Engl J Med 2010;363:1245-55.

Impactable Admissions

NEJM randomized trial results

Hospital admissions for intervention group Patients were lower than for control group in 12 out of 16 cells

Impact on high variation and preference-sensitive admissions/1000



⁴⁰⁰ Medical Admissions per 1,000 Patients per Year 350 Cntl 300 Intv 250 200 150 100 50 0 В С D Ε F G н К А J M Ν 0 P Cell

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FINDING THE CONNECTION:

PHYSICIANS

Provider segmentation: finding the opportunities



QUALITY AND EFFICIENCY

Composite quality and efficiency scores for Group Physicians compared



Top/Bottom Performing Physicians

The physicians in the group with top and bottom overall quality and efficiency scores.

EFFECTIVE CARE

85%
87%
87%
88%
92%

) Korny Hamill

9.	Kerry Hamill	61%
10.	Roland Katz	60%
11.	Elaine Cooper	59%
12.	Ella Baff	53%
13.	John Badanes	53%



Top Performance

SUPPLY SENSITIVE CARE COST

6.	Pat Abercrombie	\$1,095
7.	David Kimball	\$1,106
5.	David Downs	\$1,125
9.	Kerry Hamill	\$1,189
10.	Roland Katz	\$1,199
GR	OUP MEAN	\$1,675

Bottom Performance

2. Peter Smith	\$2,012
11. Elaine Cooper	\$2,311
14. Aubrey Reinbolt	\$2,315
15. Fred Meyers	\$2,478
16. Lynn Fontaine	\$2,563

Provider segmentation: how am I doing?

ABOUT YOUR PATIENTS Adult PCP Patients You Peers Patients 345 275 Average Age 33 35 % Male 49 47 % Chronic 8.4 7.5 % Asthma 1.2 1.2 % CAD 1.6 1.3 % COPD 1.8 1.5 % Diabetes 1.8 2.0 % Heart Failure 2.0 1.5 1.05 1.0 **Risk Index**



> Go to ...

QUALITY AND EFFICIENCY

Your composite quality and efficiency scores compared to your peers.



Click > Go to ... to learn more about your performance scores

KEY RISK ADJUSTED UTILIZATION MEASURES

Your use of services compared to ye	our peers.		Significantly Different
	You	Peers	from Peers
(PER 1000 PATIENTS)			
Admissions	73	59	0
Hospital days	293	289	
Emergency Dept visits	159	188	
Prescriptions	9	12	
(OTHER)			
# of PCPs seen per patient	1.4	1.9	
# of Specialists seen per patient	2.7	3.8	
Physician Visits per patient	8.9	11.8	
% Generic Prescriptions	73	68	

= Your performance on this measure is significantly worse than your peers Sector and the sec

PERFORMANCE IMPACT

The impact of your performance compared to your peers.

Effective Care (Quality)	Patients	Rate	Peers	Diff	Opportunity for Change
Breast Cancer Screening (%)	125	73	81	8	10 (Patients)
Diabetes - HbA1c Testing (%)	27	80	87	7	2 (Patients)
CAD - Beta Blocker Post MI (%)	14	92	98	6	1 (Patients)
Supply Sensitive Care (Efficiency	()				
Advanced Imaging Cost (Dollars)	345	45	28	17	5,693
Outpatient Visit Cost (Dollars)	345	346	305	41	14,007
Specialist Visits (Visits)	345	5.8	4.7	1.1	380
Preference Sensitive Care (Surg	eries per 10	00 patier	nts)		
Cardiac Revascularization	45	22	19	24	1 (Patients)

Cardiac Revascularization	45	22	19	2.4	1 (Patients)
Lumbar Back Surgery	98	14	11	2.6	1 (Patients)
Knee Surgery	75	9	6	2.4	1 (Patients)

> Go to

Provider segmentation: where can I do better?

Measure		# of Patients	You	Your Peers	Significant Different from Pee
Atrial Fibrillation	925 0 925 0 1 1 1 0% 70% 833 96% 100%	402	92.2%	82.7%	
Cardioversion for Patients with Atrial Fibrillat	ion	4	50%	49.3%	
Initial INR Check for Patients Receiving Warfar	in	25	72.0%	54.1%	
On-Going INR Check for Patients Receiving Wa	rfarin	349	98.0%	87.9%	
Post-Cardioversion Anticoagulation Drugs for F	atients with Atrial Fibrillation	3	0.0%	27.6%	
Warfarin for Patients with Atrial Fibrillation an	nd New Stroke	3	75.0%	57.3%	
Warfarin for Patients with Atrial Fibrillation ar	nd New TIA	1	100.0%	57.0%	
Warfarin for Patients with Atrial Fibrillation, A	ge Over 65	1	0.0%	63.4%	
Warfarin for Patients with Atrial Fibrillation, A	ge Under 65	49	73.5%	68.8%	
Benign Prostatic Hyperplasia	0 0% 50% 50% 70% 85% 100%	12	50.0%	70.3%	
Alpha-1 Adrenergic Check for Patients with BP	н	12	58.0%	68.8%	
BPH Medication Check		12	42.0%	71.0%	
Post-Surgical Check for Patients with BPH		2	0.0%	74.6%	
Breast Cancer	0 0% 67% 78% 95% 100%	15	82.8%	78.4%	
Breast Cancer Radiation Therapy Initiation		7	28.6%	18.7%	
Breast Mass Follow-up		15	100.0%	90.5%	
Breast Mass Ultrasound Follow-up		7	100.0%	70.2%	
continued next page	= Inter-quartile = confidence = provider = o range interval rate	Making .		ature is significantly worse t ture is significantly better ti	

Provider segmentation: what about my colleagues?

GROUP PERFORMANCE SUMMARY REPORT: INTERNAL MEDICINE

Adult Patients (18 and over) for Year Ending Dec. 31, 2007



= Inter-quartile Range

EFFECTIVE CARE Top Performance 1. Eastham Medica

2. Meadow Interna

Hill Physician G
Hobson Medical

5. Downtown Doct

 Chinatown Med 11. Mercer Medical

12. Coopertown Do 13. London Medica

14. Eastlake Associ

PLAN MEAN Bottom Performan

KEY RISK ADJUSTED UTILIZATION MEASURES

TOP/BOTTOM PERFORMING GROUPS

Use of services among Groups in this Report.

	Min	25 th %	Median	75 th %	Max
(PER 1000 PATIENTS)					
Admissions	53	62	73	79	88
Hospital days	171	224	289	352	402
Emergency Dept visits	98	125	189	192	205
Prescriptions	6	8	9	10	12
(TOTAL)					
# of PCPs seen per patient	1.1	1.3	1.4	1.5	1.9
# of Specialists seen per patient	2.2	2.4	2.7	3.1	3.5
Physician Visits per patient	5.7	6.2	8.9	9.2	9.4
% Generic Prescriptions	52	62	73	84	90

The groups in the Plan with top and bottom overall quality	y and efficiency scores.
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		SUPPLY SENSITIVE CARE COST	
		Top Performance	
al Group	92%	6. Chinatown Medical Group	\$1,095
al Medicine	88%	7. Davidson Place Associates	\$1,106
Group	87%	8. Western Hills Medicine	\$1,125
l Associates	87%	9. Southeastern Corner Group	\$1,189
tors	85%	10. Georgetown Medical Group	\$1,199
	78%	PLAN MEAN	\$1,675
nce		Bottom Performance	
dical Group	61%	3. Hill Physician Group	\$2,012
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Effective Care (Quality) Gap in Care

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PCMH/ACO 'ecosystems': are they answer to the illusive search for a connection between the quality and cost of care?

The Vision – The Triple Aim The Strategy – Accountable Care



"The care people want and nothing more; care people need and nothing less"

The PCMH/ACO 'ecosystems': the answer to the illusive search for a connection between the quality and cost of care?

Payment model(s) that incent behavior:

- Effective care
- Preference sensitive care
- Supply sensitive care

Health care systems designed to optimize patient care and 'win' under new payment models

Population based care,

one patient at a time

В	С	D
F	G	H
J	K	L
Ν	0	P
	B F J	B C F G J K N O



Where the money should go

Accountable Care

