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Analyzing Baseline Compliance on Four Healthcare Effectiveness Data Information Set (HEDIS) Quality Measures in Diabetic Population

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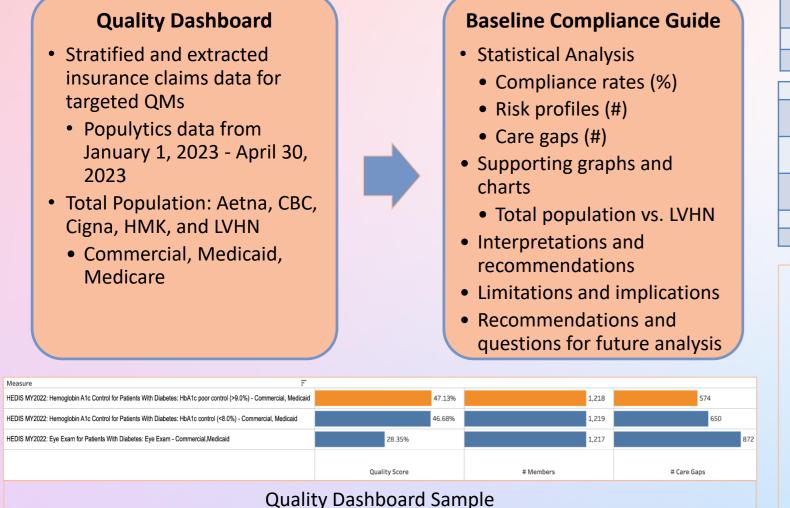
Analyzing Baseline Compliance on Four Healthcare Effectiveness Data Information Set (HEDIS) Quality Measures in Diabetic Population

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BACKGROUND & PURPOSE

- Diabetes is a chronic disease distinguished by elevated blood glucose levels and is the 8th leading cause of death in the United States (US)¹
- 37 million people in the US (11.3% of population) have diabetes²
- \$1 out of every \$4 in US healthcare costs is spent on diabetes care³
- The total annual cost of diabetes in the US is ~ \$327 billion³
- Purpose: identify areas of opportunity to design interventions for diabetic population based off the following targeted HEDIS Quality Measures (QM):
 - 1. Adults Access to Preventative/Ambulatory Health Services (AAP)
 - 2. Eye Exams for Patients with Diabetes (EED)
 - 3. Hemoglobin A1c Control for Patients (Pts) with Diabetes (HBD)
 - 4. Kidney Health Evaluations for Patients with Diabetes (KED)





Please Scan to View Baseline Compliance Guide



¹ Centers for Disease Control and Prevention. (2023, January 18). Leading Causes of Death. Cdc.gov. https://www.cdc.gov/nchs/fastats/leading-causes-of-death.htm American Diabetes Association. (2022, July 28). Statistics About Diabetes. Diabetes.org. https://diabetes.org/about-us/statistics/about-diabetes ³Centers for Disease Control and Prevention. (2022, December 21). Health and Economic Benefits of Diabetes Interventions. Cdc.gov. https://www.cdc.gov/chronicdisease/programs-impact/pop/diabetes.htm#:~:text=Diabetes %20is%20the%20most%20expensive%20chronic%20condition%20in%20our%20nation. &text=%241%20out%20of%20every%20%244,caring%20for%20people%20with%20diabetes.&text=%24237%20billion%E2%80%A1(a)%20is,(a)%20on%20reduced%20productivity Institute for Work & Health. (2015, April). Primary, Secondary and Tertiary Prevention. Iwh.on.ca. https://www.iwh.on.ca/what-researchers-mean-by/primary-secondary-andtertiary-prevention#:~:text=If%20you%20set%20up%20programs,rashes%20as%20best%20as%20possible.

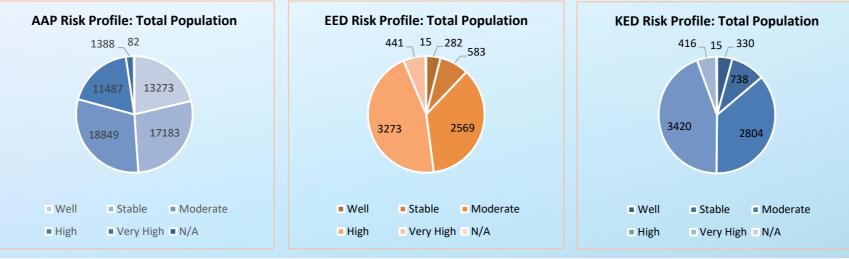
AAP: Total Population (n = 61704)				AAP: LVHN Alone (n = 11399)				
Demographic	n	Compliance	Care Gaps	Demographic	n	Compliance	Care Gaps	
		Rate (%)	(Per 100 Pts)	0 1		Rate (%)	(Per 100 Pts)	
Commercial: Ages 20-44	21711	100	.005	Commercial: Ages 20-44	5194	100	0	
Commercial: Ages 45-64	28876	100	0					
Commercial: Ages 65+	4482	99.98	.022	Commercial: Ages 45-64	5274	100	0	
Medicare, Medicaid: Ages	6635	78.81	21.19					
65+				Commercial: Ages 65+	931	100	0	
EED: Tot	tal Popula	tion (n = 7163)		EED: LVHN Alone (n = 1217)				
Demographic	n	Compliance	Care Gaps	Demographic	n	Compliance	Care Gaps	
		Rate (%)	(Per 100 Pts)	0		Rate (%)	(Per 100 Pts)	
Commercial, Medicaid	6214	29.67	70.33		1217		. ,	
Medicare	949	38.99	61.01	Commercial, Medicaid	1217	28.35	71.65	

AAP: Total P Demographic	· ·	ion (n = 61704)								
Demographic		AAP: Total Population (n = 61704)				AAP: LVHN Alone (n = 11399)				
	n	Compliance	Care Gaps	Demographic	n	Compliance	Care Gaps			
		Rate (%)	(Per 100 Pts)	. .		Rate (%)	(Per 100 Pts)			
Commercial: Ages 20-44 2	21711	100	.005	Commercial: Ages 20-44	5194	100	0			
Commercial: Ages 45-64 2	28876	100	0							
Commercial: Ages 65+ 4	4482	99.98	.022	Commercial: Ages 45-64	5274	100	0			
Medicare, Medicaid: Ages 6	6635	78.81	21.19							
65+				Commercial: Ages 65+	931	100	0			
EED: Total I	Populat	tion (n = 7163)		EED: LVHN Alone (n = 1217)						
Demographic	n	Compliance	Care Gaps	Demographic	n	Compliance	Care Gaps			
		Rate (%)	(Per 100 Pts)	DemoBraphie		Rate (%)	(Per 100 Pts)			
Commercial, Medicaid	6214	29.67	70.33		1017	. ,	, ,			
Medicare	949	38.99	61.01	Commercial, Medicaid	1217	28.35	71.65			

HBD Well Controlled (< 8%): Total Population (n = 7174)				HBD Well Controlled (< 8%): LVHN Alone (n = 1219)				
Demographic	n	Compliance	Care Gaps					
Demographic		Rate (%)	(Per 100 Pts)	Demographic	n	Compliance	Care Gaps	
Commercial, Medicaid	6223	42.92	57.08	Commercial, Medicaid		Rate (%)	(Per 100 Pts)	
commercial, ivieuicalu	0225	42.52	57.08		1219	46.68	53.32	
Medicare	951	47.63	52.37		1219	40.08	33.32	

HBD Poor Controlled (> 9%): Total Population (n = 7169)				HBD Poor Controlled (> 9%): LVHN Alone (n = 1218)				
Demographic	n	Compliance Rate (%)	Care Gaps (Per 100 Pts)	Demographic	n	Compliance	Care Gaps	
Commercial, Medicaid	6217	49.70	49.70	Commercial, Medicaid	1218	Rate (%) 47.13	(Per 100 Pts) 47.13	
Medicare	952	44.75	44.75		1210	47.15	47.15	

KED: Total Population (n = 7510)				KED: LVHN Alone (n = 1027)			
Demographic	n	Compliance	Care Gaps				
		Rate (%)	(Per 100 Pts)	Demographic	n	Compliance	Care Gaps
Commercial, Medicaid:	5252	24.07	75.93			Rate (%)	(Per 100 Pts)
Ages 18-64							
Commercial, Medicaid:	905	30.17	69.83	Commercial, Medicaid:	1027	23.08	76.92
Ages 65-74				Ages 18-64	1027	23.00	70.52
Medicare: Ages 65-74	720	28.75	71.25	Ages 10-04			
Medicare: Ages 75-85	633	23.54	76.46				



RESULTS

CONCLUSIONS & LIMITATIONS

• AAP overall had the highest compliance rates compared to other QMs

LVHN is strong in this QM with zero care gaps among all demographics

- EED: total population Commercial and Medicaid had a lower compliance rate than Medicare • LVHN had a lower compliance rate and higher care gaps compared to total population
 - Most patients fell into the "high" risk group

• Limitation: secondary eye insurance plans for eye care \rightarrow falsely lower compliance rates

- HBD Well: total population Commercial and Medicaid had a lower compliance rate than Medicare
 - LVHN alone had a higher compliance rate and lower care gaps compared to total population Commercial and Medicaid

HBD Poor: lower/more optimal compliance rate for Medicare than Commercial and Medicaid

• LVHN alone had a lower compliance rate and lower care gaps compared to total population Commercial and Medicaid (lower compliance rate = better performance for this QM) KED overall had the lowest compliance rates compared to other QMs

- LVHN had a lower compliance rate and higher care gaps compared to total population
- Most patients fell into the "high" risk group
- Limitation: updated HEDIS guideline now requiring both glomerular filtration rate and urine albumin-creatinine ratio exams

FUTURE DIRECTIONS & RECOMMENDATIONS

- Areas of opportunity: EED and KED; secondary and tertiary prevention⁴
- Analyze case studies of successful primary/secondary/tertiary prevention strategies to implement in future Populytics interventions
- Use LVHN patients as pilot group for future Populytics interventions
- Program quality dashboard to adjust for varying population sizes

			Tertiary Prevention	
			Managing effects of	
		Secondary Prevention	disease post intervention	
1		Screening for early	Example: diabetes	
	Primary Prevention	disease detection	management programs	
	Preventing disease	Example: hemoglobin		
	from ever occurring	A1c testing, eye exams,		
	Example: educate	kidney evaluations		

Special thank you to LVHN, Populytics, and my wonderful Project Mentors

LVHN.org

How Healthier Happens

population on healthy

lifestyle habits

