Health Care Savings Associated with Enrollment in Carol's Wish



CIVHC Research, Partnerships, and Innovation Team (RPI)

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Carol's Wish

No one should receive substandard medical care for financial reasons.

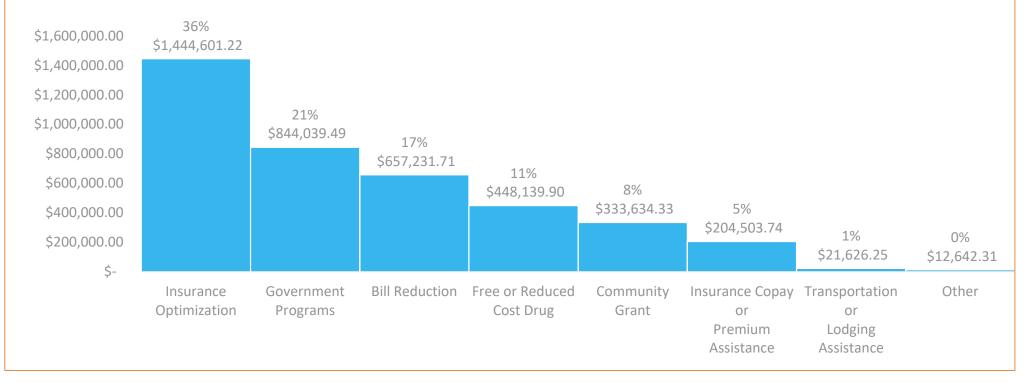
...What does that look like in terms of outcomes for participants?

Evaluation Design

- Collaborated with CGCA & Subject Matter Experts
 - Common patient diagnosis & treatment experience
 - Details available in claims
- Collected Supplemental Information
 - CW Program Data
 - Case Studies
 - Survey Results









Evaluation Design

- Focused Evaluation Scope
 - Primary impact = insurance optimization
 - What would we expect to see as a result?
 - What can be measured using CO APCD data?
- Evaluation Question
 - Do CW participants pay a lower member out-of-pocket proportion for health care than non-participants?
 - Does CW successfully support individuals who are chronically under-resourced?



- DFO 1. Do Carol's Wish enrollees pay a lower proportion of out-of-pocket costs for health care than medically similar under-resourced patients who are not enrolled in Carol's Wish?
 - 2. Does the distribution of health care costs across responsible parties (provider, payer, member) for program participants differ from non-participants?

Darcy Holladay Ford, 2024-09-11T22:42:25.865

DF1 Maybe we use these questions here.

Darcy Holladay Ford, 2024-09-11T22:42:54.474

VG1 0 Thanks, I think I was using an older version. We shifted the questions a little throughout the project so I tried to reflect that here.

Valerie Garrison, 2024-09-12T14:51:52.587

Evaluation Design

- Total allowed amount
- MOOP* total & percent

Analyzed

Associated With

- Medical claims
- GC claims
- Pharmacy claims

- "Diagnosis date" through 6 months
- 2018 2022

From

Among

- CW participants
- Matched nonparticipant cohort





Data

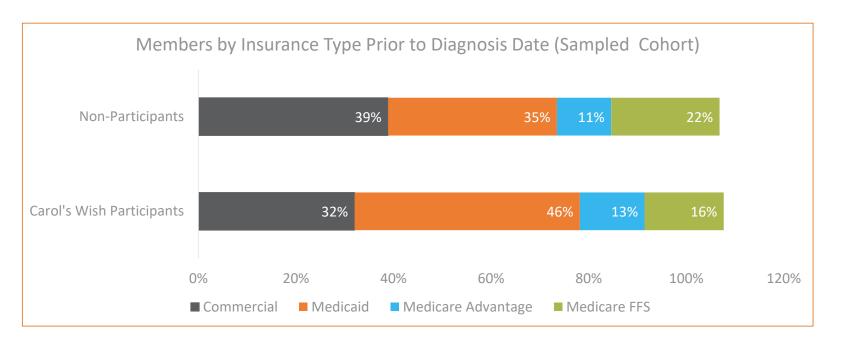
- CGCA
 - Participant Finder File
 - Program Assistance records
 - Diagnosis codes
- CO APCD
 - Claims data and spending totals
 - Dual Eligibility
 - Johns Hopkins ACG® System measures (insurance before diagnosis, RUB, Social Needs)

Slide 13

DF0	Maybe use a Participant list? Finder Files is our term. Darcy Holladay Ford, 2024-09-11T22:44:06.413
DF1	Define this and the ACG system. Darcy Holladay Ford, 2024-09-11T22:44:58.086
DF2	We might also need to talk about the requirement of 11 out of 12 months of insurance coverage for ACG Darcy Holladay Ford, 2024-09-11T22:47:29.135

Results

Cohort	Preliminary Population	Met Inclusion Criteria
CW Participants	628	234
Non-Participants	12,544	234





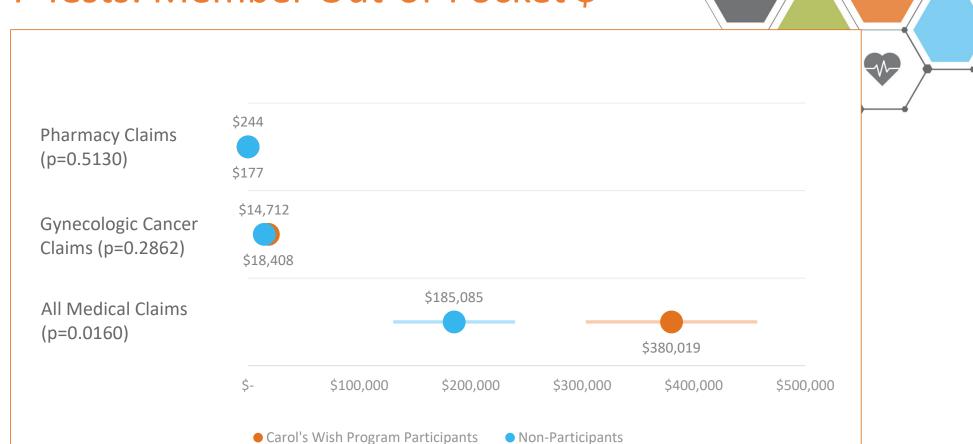
DFO DFO

T-Test: Allowed Amount (Total Spending)



Might need to define what allowed amount is Darcy Holladay Ford, 2024-09-11T22:46:05.930 DF0

T-Tests: Member Out-of-Pocket \$



T-Tests: Member Out-of-Pocket %



Regression: Medical Claims Spending

Parameter	Estimated Impact of Carol's Wish	Standard Error	P-Value	Adjusted R- Squared
PMPP Allowed Amount	\$611,789	\$140,165	<0.0001	0.10
PMPP MOOP Total	\$30,131	\$9,044	0.0009	0.10
PMPP MOOP %	-2.4 percentage points	0.7	0.0012	0.32

Per-Member-Per-Period (PMPP) values are adjusted for insurance eligibility over 6 months



Regression: GC Claims Spending

Parameter	Estimated Impact of Carol's Wish	Standard Error	P-Value	Adjusted R- Squared
PMPP Allowed Amount	\$223,720	\$46,837	<0.0001	0.09
PMPP MOOP Total	\$6,182	\$3,386	0.0685	0.07
PMPP MOOP %	-3.8 percentage points	1.0	0.0002	0.22

Per-Member-Per-Period (PMPP) values are adjusted for insurance eligibility over 6 months





Summary of Findings

- Total medical expenditures and medical costs associated with GC are higher for program participants from diagnosis through 6 months
 - Total MOOP expenditures were higher for CW participants
 - MOOP spending for GC claims was comparable between groups
- Despite higher allowed amount and MOOP totals, participants:
 - Paid 2.4 percentage points less out-of-pocket for all medical claims
 - Paid 3.8 percentage points less out-of-pocket for GC claims
- There was no significant difference for pharmacy claims between groups
- Claims-based analysis and supplemental information demonstrate a clear financial wellness benefit for participants

Slide 20

DF0

I like this. Nice summary. Darcy Holladay Ford, 2024-09-11T22:49:27.277

Supplemental Analysis: Utilization Rate

- Could the higher total and MOOP spending among participants reflect higher overall utilization (access)?
 - T-test comparing mean PMPP visits from diagnosis through 6 months

	Non-Participants		CW Participants
All Lines of Business	42.7	<	75.5
Medicaid Only	46.3	<	82.9

Yes, consider investigating further



Data Challenges

- No field for Dx date
- SES data unavailable
- ACG System
 - Annual
 - Continuous eligibility
- Timing of enrollment in CW
- Recurring cases

Project Solutions

- Proxy measures
 - Diagnosis date
 - Socioeconomic status
- ACG System
 - Extended analytic timeline
 - Applied most recent
 - Supplemented with CO APCD
- Extended data extract to 1 year before analytic timeline



Limitations

- Small sample size
 - Finder file to locate CGCA cohort in CO APCD (63% match)
 - ACG system gynecologic cancer flag only captures 3 of 5 GC types
- Difficult to capture full extent of insurance optimization impact
 - No information for uninsured individuals & other health plan types DF1
 - Demographic information limited

Opportunities

- Further explore member utilization trends (supplemental analysis)
 - Timing
 - Service Type
 - Chronic condition management
 - Family utilization
- Extend evaluation timeline*
- Pre-post insurance enrollment, benefit levels



DF0	incomplete? Are we talking about race and ethnicity?

Darcy Holladay Ford, 2024-09-12T17:37:59.819

DF1 Captured 75% of the covered lives.

Darcy Holladay Ford, 2024-09-12T17:39:22.930

Small sample size < we don't know if there are systematic differences between those we captured and those we didn't. Limitation is the gernalizability of the finding to the CW population and GC pop.

Darcy Holladay Ford, 2024-09-12T17:41:55.558

Limitations

- Cannot attribute outcomes to specific behavior or assistance types
- Unable to assess choice to continue with cancer treatment within the scope of this analysis
 - Higher total costs could reflect increased likelihood of treatment
 - More CW participants had a cancer treatment flag than non-participants*

Opportunities

- Supplemental evaluation(s)
 - Integrate survey responses
 - Qualitative analysis
- Explore possibilities for comparing cancer treatment decisions



We didn't plan on answering these questions, and are not a limitation of our data or in our ability to answer our evaluation questions. These seem to be all opportunities for further exploration.

Darcy Holladay Ford, 2024-09-12T17:36:44.817



Discussion

Factors interact to influence total spending

- Higher social needs (SN)
 - More likely to qualify for benefits that lower MOOP
- Higher RUB
 - Poorer health
 - Higher utilization
 - Higher total & MOOP costs
- High RUB * High SN = Higher MOOP



Discussion

- CW participants had higher spending and utilization rates between diagnosis and 6 months
 - Trend held for Medicaid members
- CGCA prioritizes services for Coloradans facing financial hardship
 - Before matching, CW participants had more social needs listed and were more likely to have Medicaid before diagnosis



Discussion

- Staff & Participant Feedback
 - Insurance enrollment/optimization helps families access care
 - Supplemental financial supports help participants
 - Bridge gaps in coverage
 - Manage dual-deductible impacts
 - Travel for care
 - Cover copays
 - Reduces burden of finance-based decision-making
 - Treatment | vs | Homeownership / College / etc...

What's Next? vgo

- Leverage results to sustain & expand CW program
- Revisit proposed opportunities



Patrice would you like to do this part? Anything to add here? Valerie Garrison, 2024-09-10T21:19:54.903 VG0