



MAY 3, 2018

LVBCH Annual Meeting

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Agenda

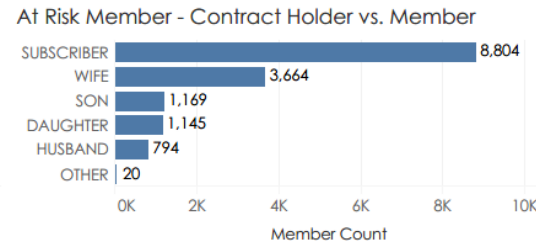
- **Geneia Data Analysis Services**
- **2018 Updates**
- **Diabetes & Prediabetes**
- **Key Actionable Insights**
- **Q & A**

Geneia Data Analysis Services

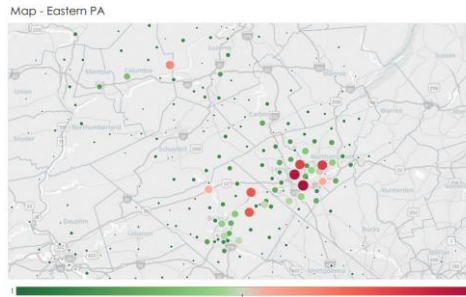
Extends the Value of Theon[®] Care Engager to:

- Uncover complex trends and correlations in Theon[®] platform data
- Provide executive-level visualization for easy identification of actionable opportunities
- Enable geographic maps to easily view local and regional factors

- 'Basic' analysis with data visualizations



- Geographic data visualizations



- Analysis to determine statistically significant differences or correlations using a variety of parametric and non-parametric models, and regression models

Update: Demographics

✓ Population age and contract mix has stayed largely the same as last year.

✓ Average Age:

- LVBCH Instance: 35.77 years
- All LVBCH: 36.72 years

✓ For LVBCH Instance, 50% of contracts are family and 15.66% are parent/child(ren). All LVBCH is 47.7% and 16% respectively.

✓ The average number of members per contract is the same:

- LVBCH Instance: 2.3
- All LVBCH: 2.2



Actionable Insights

- Enrolled membership about evenly split:
 - Male = 54%
 - Female = 46%
- However, subscribers – employees – predominately male
 - Male = 72%
 - Female = 28%
- **Why does it matter?**
 - US Department of Labor found 85% of healthcare decisions are made by women*
 - Messaging for Health Education topics such as preventive screenings can differ
 - Need to find ways for Health Education information to be shared with non-employee female members





Update: Child/Infant Opportunities

All LVBCH

- Complications of Pregnancy and Childbirth remain in the top 10 conditions driving costs. 6 of the top 10 overall providers of primary care are pediatricians.
- Childhood Immunization Status is showing statistically significant upward trend from previous year.
- The rate of childhood and adolescent well visits have increased over previous year, however, there is still opportunity for improvement in both measures.

Update: Pharmacy Cost and Utilization

Total Drugs:

Cost: \$64.3M

Number of Prescriptions: 820,248

Average Cost per Prescription: \$78.41

Retail = 69%; Mail Order = 31%

Generics = 86%, an increase of 1.5%

Non-Specialty Drugs:

Cost: \$39.7M = 62% of Cost

Number of Prescriptions: 813,532 = 99.2% of Prescriptions

Average Cost per Prescription: \$48.77

'Specialty' Drugs:

Cost: \$24.6M = 38% of Cost

Number of Prescriptions: 6,716 = 0.8% of Prescriptions

Average Cost per Prescription: \$3,668.93



Specialty Pharmacy Utilization

<i>Prescribed NDC Description</i>	<i>Therapeutic Class Description</i>	<i>Total Cost Amount</i>	<i># of Prescriptions Filled</i>	<i>Average Cost of Prescription</i>
HUMIRA PEN	DISEASE-MODIFYING ANTIRHEUMATIC AGENTS	\$3,622,987.90	693	\$5,227.98
ENBREL SURECLICK	DISEASE-MODIFYING ANTIRHEUMATIC AGENTS	\$1,865,990.25	454	\$4,110.11
HARVONI		\$893,261.52	29	\$30,802.12
TECFIDERA	BIOLOGIC RESPONSE MODIFIERS	\$758,144.02	111	\$6,830.13
STELARA	SKIN AND MUCOUS MEMBRANE AGENTS, MISC.	\$737,084.03	83	\$8,880.53

- Top 5 drugs by total cost are ‘Specialty Drugs’ with no generics currently available
- Top 2 are for rheumatoid arthritis and related conditions
- Highest average cost per prescription is Harvoni for hepatitis C

Update: Health System Utilization

Attribution	Emergency Department & Laboratory
<ul style="list-style-type: none">Of 54,493 active panel in LV BCH Instance, 55% have an attributed health system	<ul style="list-style-type: none">Geisinger HealthLehigh Valley Hospital NetworkReading Hospital NetworkSt Joseph's Medical CenterSt. Luke's Health Network
Top 5 Attributed Health System by Member Count:	New Entrants to Top 5 (\$\$)
<ul style="list-style-type: none">Lehigh Valley Health Network (32% of attributed population)Reading Health Partners (19%)Other (16%)St. Luke's Physician Group Inc. (12%)Geisinger Clinic (6.4%)	<ul style="list-style-type: none"><i>Hospital:</i> Children's Hospital of Philadelphia*<i>Radiology:</i> Surgical Specialty Ctr.



Update: Cost & Use Compared to Benchmarks



All LVBCH Value-Based Membership:

205,147 member months in value-based care arrangements (VBC) compared to 182,206 in traditional fee-for-service (nVBC). Approximately 53% of All LVBCH members receive care through a value-based contract.



PMPM Medical Costs:

Medical trend for VBC members is significantly lower (3.9% decrease) vs nVBC members (3.1% increase), a difference of 7%.



Hospital Utilization:

Emergency department utilization was 8.6% lower for VBC members. Admissions were 4.7% lower for VBC members. Readmissions were 12.9% lower for VBC members.

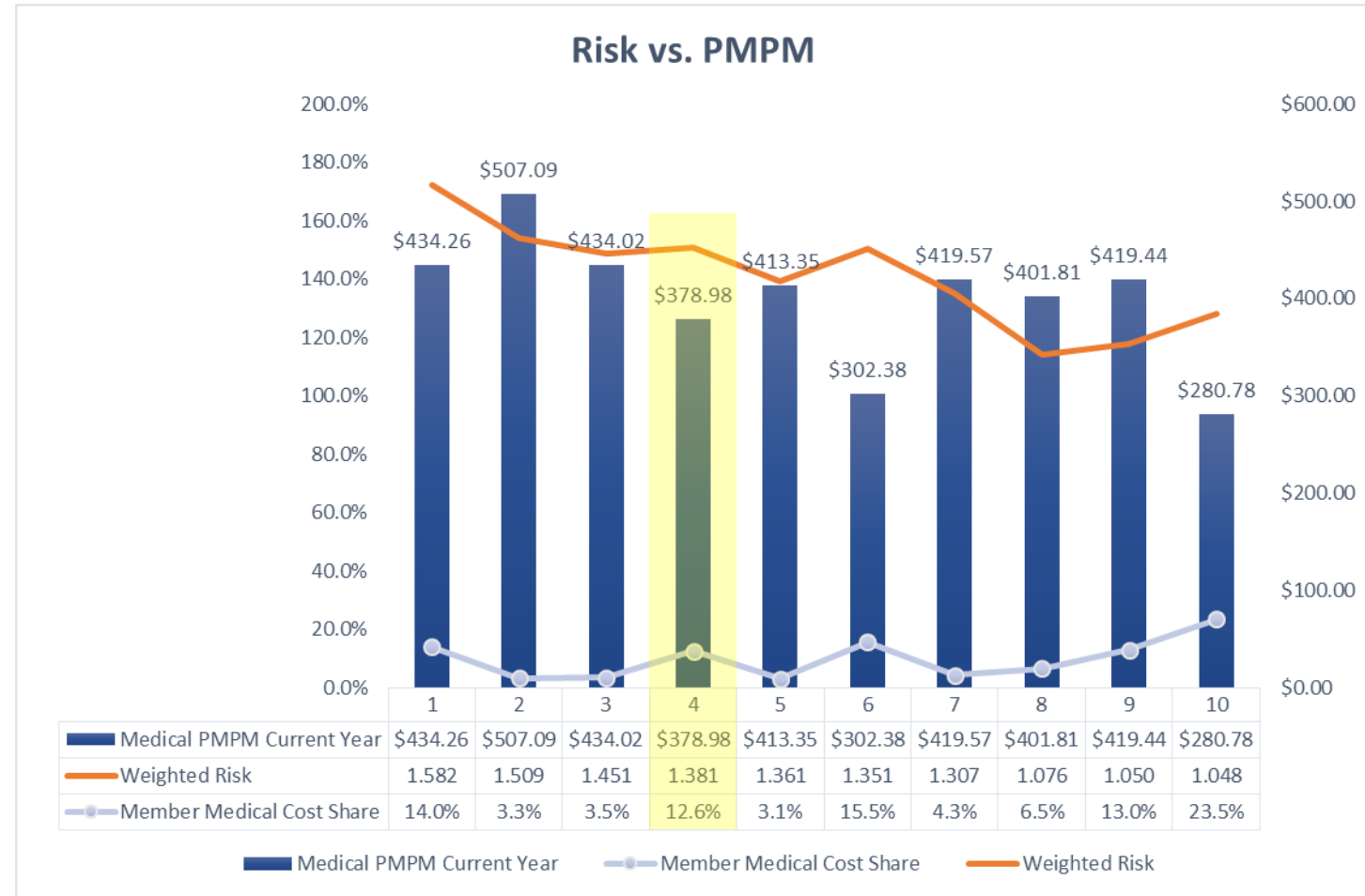


Risk Score:

8.7% higher for VBC members.





Current Year: Weighted Risk vs. Medical PMPM

For the LVBCH Instance, Medical PMPM and Member Medical Cost Share has a statistically significant negative correlation -- the greater the member medical cost share, the lower the medical PMPM.



4 = Theon® Platform norm

High-Cost Members

-  93 Members had greater than \$200,000 total spend. Of these, 38% are Subscriber/Employee
-  31% have oncology diagnosis. Breast and cervical cancer screening capture rates remain about the same, however, colorectal cancer screenings have increased 5%.
-  Comorbidity Impact: 35% have less than 50% of their costs related to their Condition Hierarchy category
-  Only 2 of the top 10 highest cost members agreed to participate in payer care management program



Costly and Prevalent Conditions: All LVBCH

20% of Members
\$11M in Cost
\$19.00 PMPM

- Musculoskeletal System and Connective Tissue Diseases: Back, Neck, Knee, Hip, Wrist, Arthritis
 - 20% of Members and almost \$11M in cost

29.5% of Members
\$5.5 M in Cost
\$9.96 PMPM

- Respiratory System Diseases: Asthma, COPD
 - 29.5% of Members and over \$5.5M in cost

\$3,700,640.78

- Septicemia Diagnosis

Diabetes and Prediabetes

Prevalence:

- In the LVBCH Instance, 5.07% of members have a diabetes diagnosis.
- Diabetic comorbidities: Only 186 members have zero comorbidities. 1,639 members have 3+ comorbidities. Top comorbidities: hypertension (71%), overweight/obesity (46%), connective tissue disease (36%)

Another 27.29% are at-risk of developing diabetes.

Among the at-risk members, the top 3 risk factors are:

- Overweight or obesity (16.3%)
- Hypertension (11.9%)
- Smoking (6%)

Total Costs:

Diabetic Members:

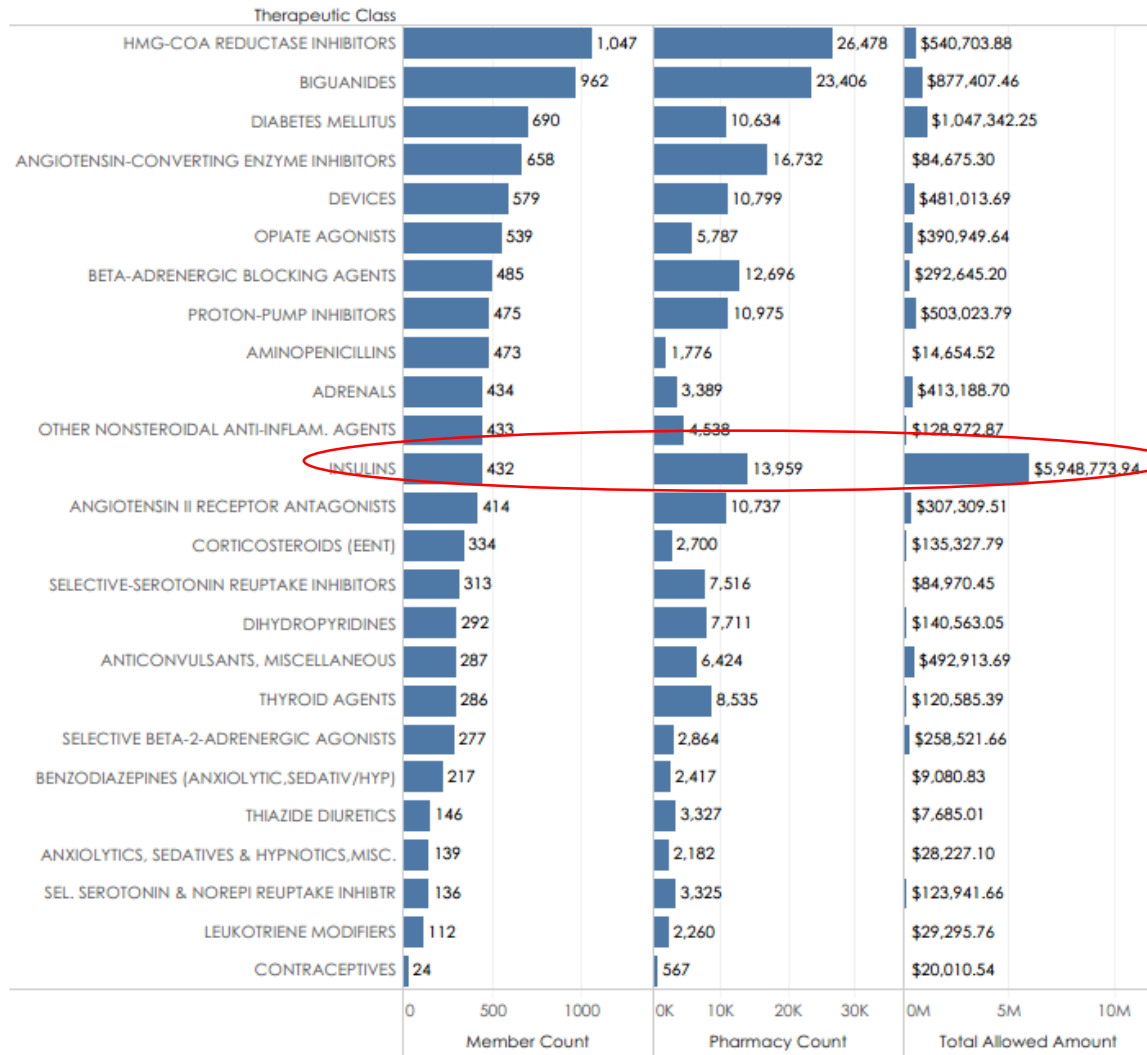
- Annual medical costs were \$83,443,877. Pharmacy costs were \$28,116,548.

Prediabetic Members:

- Annual medical costs were \$241,313,699. Pharmacy costs were \$43,451,399.

Pharmacy Spend for Diabetic Members*

Diabetic Member - Pharmacy - Top Therapeutic Class



*Source: LVBCH Theon Care Engager Instance encompassing nine employer groups. Showing Diabetic members only (includes Type I and Type II diabetics)



Diabetes Learning Collaborative

A very diverse group of stakeholders are working together to address the prevalence of prediabetes and diabetes within the LVBCH population

- LVBCH**
- **Payers:** Capital Blue Cross**, United Concordia
- **Employers:** B Braun Medical Inc.**, CF Martin & Co., City of Bethlehem Health Bureau, City of Allentown Health Bureau, East Penn Manufacturing**, Lehigh University
- **Hospitals:** Lehigh Valley Health Network, St. Luke's University Health Network**
- **Others:** Geneia**, Sanofi

*** Have access to Theon® Analytics platform. View depends upon role.*

Inventorying & Coordinating Existing Efforts

LVBCH

Capital BlueCross

- Engage providers in value-based performance arrangements. Providers incented to improve quality metrics
- CBC value-based providers: St. Luke's University Health, Lehigh Valley Health Network, Integrated Medical Group, Sacred Heart Healthcare System
- Make the Theon[®] Analytics platform available to value-based providers and employers.
- Increasing focus on identification of prediabetics and connecting them with appropriate care management resources

Geneia

- Provide, support and train users to maximize value of the Theon[®] Analytics platform
- Population health consultants work with Capital BlueCross' value-based care provider partners and employers

Inventorying & Coordinating Existing Efforts

Employers

- B. Braun Medical Inc.:
 - 2016 costs: Antidiabetic medication contributed to 2.3% of net drug trend. 417 utilizers with a net cost of \$950K and a 30% trend compared to 2015.
 - May 2017: Introduced CVS Caremark Transform Diabetes Care Program.
- East Penn Manufacturing:
 - ESI-Tower Health Pilot Program
 - Novo Nordisk education specialist works with nurse navigators and individual patients

Providers / Hospitals

- St. Luke's University Health Network bundled payments initiative

What's Next?

- Continue to mine deeper analysis to better understand diabetic and prediabetic population
- Create SMART goals for Learning Collaborative
- Determine action steps for each existing stakeholder
- Implement virtually CDC's National Diabetes Prevention Program
- Quantify impact
- Engage additional stakeholders
- Apply lessons learned and processes to other conditions



Key Actionable Insights

Non-Utilization of Benefits



Subscribers (Employees)

- Male = 72%
- Female = 28%



Membership:

- Male = 54%
- Female = 46%



Benefit Utilization

- 81% of Members Utilized Benefits
- 19% of Members Did Not

Emergency Department Utilization

16%
Mondays

15%
Sundays & Fridays

10.2%
PMPM Increase

716
ED Visits

ED PMPM increased
10.2% Year over Year

716 or 6% had a Primary
Diagnosis of either
Headache, Cough or
Unspecified Fever

The Theon[®] Care Engager

Roadmap Highlights

▪ Reporting

- Variable timeframes with auto-recalculations
- Executive summary dashboard expansion
 - Medical costs including Medical/RX cost share, Plan Paid
 - Cost and membership by major diagnostic category
- Site of service reporting for high cost medications
- High cost medications in the medical benefit

▪ Predictive Models

- ID and stratification enhancements

▪ Care Management

- Expansion of co-morbid condition reporting
- Enhancements to engagement rate calculations

