AVALON HEALTHCARE SOLUTIONS SEPTEMBER WEBINAR

September 14, 2021





OVERVIEW & INTRODUCTIONS

Barry Davis, Chief Growth Officer, Avalon



Before we start



This meeting is being recorded



We will be **MUTING** everyone except the presenter to make sure the AUDIO is clean and clear



Q&A will be done by using the "Questions" feature



Agenda

OVERVIEW AND INTRODUCTIONS

Barry Davis, Chief Growth Officer, Avalon

WASHINGTON, D.C. POLICY UPDATE Julie Barnes, Principal, Maverick Health Policy

LAB NETWORK UPDATE

Mike Snyder, EVP Network Operations, Avalon

DELIVERING VALUE-DRIVEN CARE USING LAB TEST RESULTS

Rahul Singal, M.D., Chief Medical Officer, Avalon

CLOSING REMARKS

Bill Kerr, M.D., Chief Executive Officer, Avalon





POLICY UPDATE

Julie Barnes, Principal, Maverick Health Policy





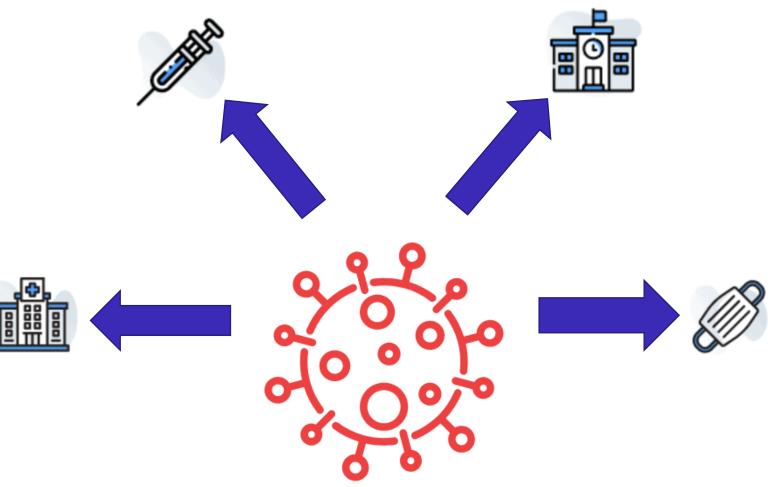


- COVID-19 Update
- New National COVID-19 Strategy
- Future COVID-19 Strategy



COVID-19 Status

- Cases
- Hospitalizations
- Deaths
- Vaccines
- Back to work and school
- State and local rules



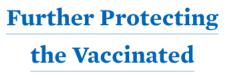


Path Out of the Pandemic – President Biden's Latest Plan





Vaccinating the Unvaccinated





Keeping Schools
Safely Open



Increasing Testing & Requiring Masking



Protecting Our Economic Recovery



	Improving Care for
t	hose with COVID-19



Pandemic Plan



Private Sector Mandate

- Department of Labor OSHA rulemaking coming soon
- Emergency temporary standard for businesses with 100+ employees
 - Fully vaccinated or regular testing
 - Paid time off to get vaccinated

Health Worker Mandate

- CMS / CDC announced Interim Final Rule expanding on nursing home mandatory vaccinations will be issued in October
 - Employees of facilities that receive federal funding (Medicare, Medicaid) must be vaccinated

Federal employees, contractors and employees of federal contractors must be vaccinated.

 "If you want to do business with the federal government you must be vaccinated."





Pandemic Plan





Increasing Testing & Requiring Masking Increasing Testing and Requiring Masking

Using Defense Production Act to accelerate production of and access to rapid and at-home COVID-19 tests

- Procure 280 million tests for long-term care facilities, community testing sites, etc.
- Expand pharmacy testing
- Amazon, Kroger and Walmart will sell at-home tests at cost—a 35% consumer discount for the next 3 months
- 25 million free at-home tests will be sent to community health centers and food banks
- TSA has extended its mask mandates for air and ground travel through January 18, 2022, double fines for violators



FUTURE Pandemic Plan



Jake Sullivan National Security Advisor



Eric Lander Assistant to the President for Science and Technology

September 3, 2021 American Pandemic Preparedness: Transforming Our Capabilities

\$65.3 billion to overhaul pandemic preparedness infrastructure

- I. Transforming our Medical Defenses
- I. Ensuring Situational Awareness about infectious-disease threats, for both early warning and real-time monitoring
- III. Strengthening Public Health Systems
- IV. Building Core Capabilities, including PPE, stockpiles and supply chains, biosafety and biosecurity, and regulatory improvement.
- V. Managing the Mission



Questions?

Contact: Julie Barnes julie.barnes@maverickhealthpolicy.com 703-304-1756 @JBarnesHealth



Maverick Health Policy





LAB NETWORK UPDATE

Mike Snyder, EVP Network Operations, Avalon



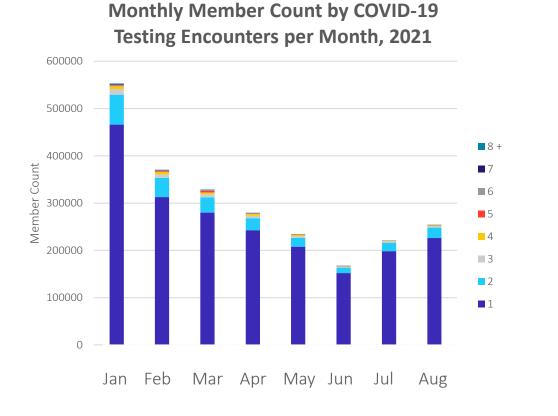
Avalon Network COVID-19 Capable Labs

Lab	RT-PCR Y/N	Multiple Platforms	Capacity (per day)	TAT
Quest	Y	Y	300,000	1-2 days
LabCorp	Y	Y	275,000	1-2 days
Mako Medical Lab	Y	Y	150,000	1 day
Aegis	Y	Y	110,000	1-2 days
BioReference	Y	Y	100,000	1 day
Premier Medical Lab	Y	Y	100,000	1-2 days
Eurofins-Diatherix	Y	N	60,000	1-3 days
PathGroup	Y	Y	50,000	1-2 days
GenetWorx	Y	Y	40,000	2 days
AIT (American Institute of Tox)	Y	Y	20,000	1-2 days
Sonic-CPL	Y	Y	20,000	1-3 days
MDL (Medical Diagnostic Lab)	Y	N	12,000	1 day
AccuReference	Y	N	10,000	2 days
LabTech	Y	Y	10,000	2 days
Precision Genetics	Y	N	10,000	1-2 days
Inform Diagnostics	Y	N	7,000	1 day
Genesis DX	Y	Y	5,000	1 day
Luxor	Y	Y	5,000	1 day
Transplant Genomics	Y	N	5,000	1-2 days
ВАКО	Y	N	2,500	1-2 days
Radeas	Y	Y	2,400	1-2 days
NephronPharm	Y	Y	2,000	2-3 days

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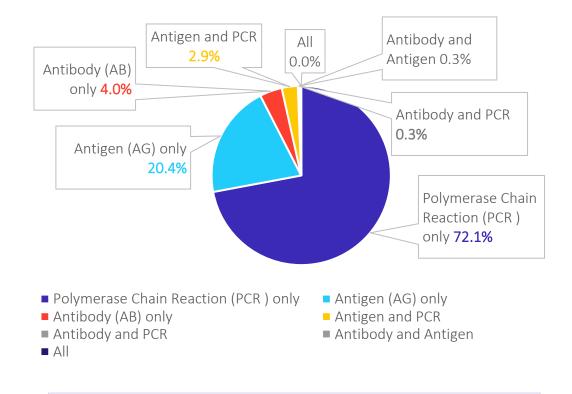
Sept 7, 2021

Avalon Network – COVID-19 Volume and Member Centric Data



- 2,407,430 total tests in first 8 months of 2021
- 3.8% of members had 3+ tests/month

Percent of Members by COVID-19 Tests in a Single Encounter



- 20.4% Antigen only–low sensitivity and specificity
- 3.5% of members had 2 tests/same day

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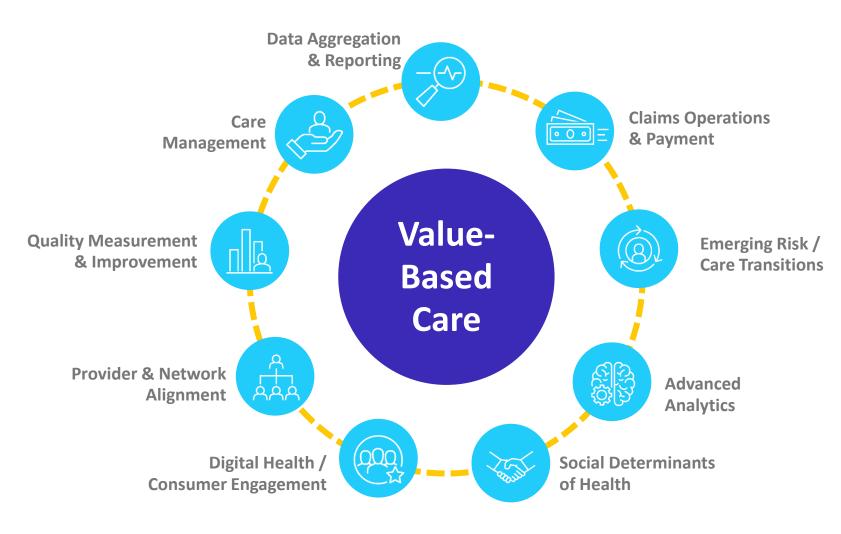


DELIVERING VALUE-DRIVEN CARE USING LAB TEST RESULTS

Rahul Singal, M.D., Chief Medical Officer, Avalon



Value-Based Care is Multi-Faceted

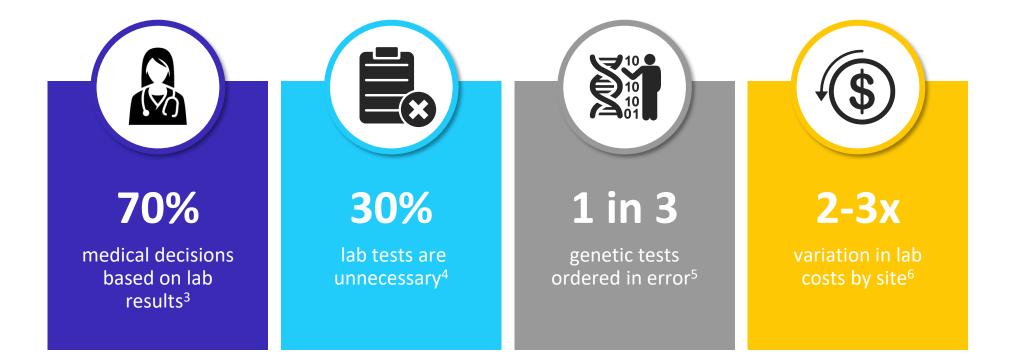


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- Priorities vary widely between health plans
- Solutions may be integrated (in- vs. out-sourced)
- Measures of success range on a spectrum
- Initiatives report to various c-suite leaders

The Unrecognized Power—and Exposure—of Lab Testing

> 13 BILLION LAB TESTS PERFORMED IN THE US EACH YEAR COSTING \$82B^{1,2}



1. https://www.aacc.org/health-and-science-policy/aacc-policy-reports/2015/laboratory-medicine-advancing-quality-in-patient-care

- 2. U.S. Clinical Laboratory Industry Forecast & Trends 2018-2020, www.laboratoryeconomics.com
- 3. Forsman, RW . Why is the laboratory an afterthought for managed care organizations? Clin Chem 1996;42:813–6
- 4. https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0078962
- 5. The Landscape of Inappropriate Laboratory Testing: A 15-Year Meta-Analysis

Zhi M, Ding EL, Theisen-Toupal J, Whelan J, Arnaout R (2013) The Landscape of Inappropriate Laboratory Testing: A 15-Year Meta-Analysis. PLOS ONE 8(11): e78962. https://doi.org/10.1371/journal.pone.0078962

6. Shrank WH, Rogstad TL, Parekh N. Waste in the US Health Care System: Estimated Costs and Potential for Savings. JAMA. 2019



The Pathway to Value-Driven Care: Start at the Source

LAB TESTING IS THE GATEWAY FOR APPROPRIATE DIAGNOSIS AND TREATMENT CARE PLAN

Only invest in things that will help the patient, provider and payer

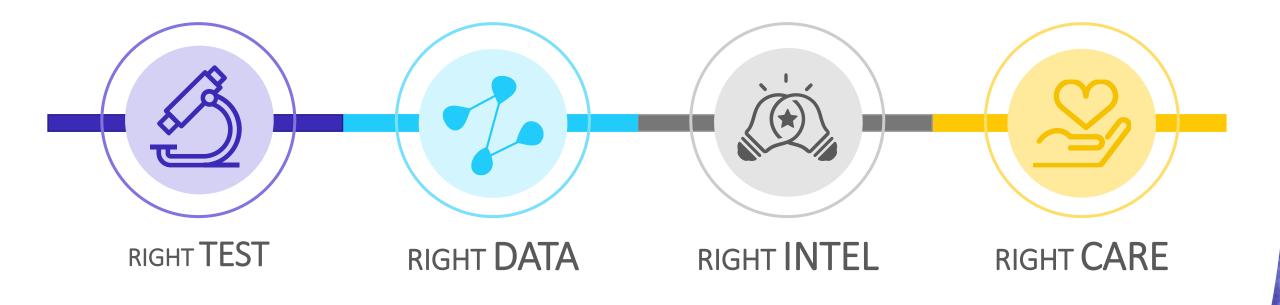
Drive the right outcome while achieving cost alignment in real time

Reduce massive waste in time, money and uncertainty that are not helping to improve outcomes



Avalon's Lab Insights System

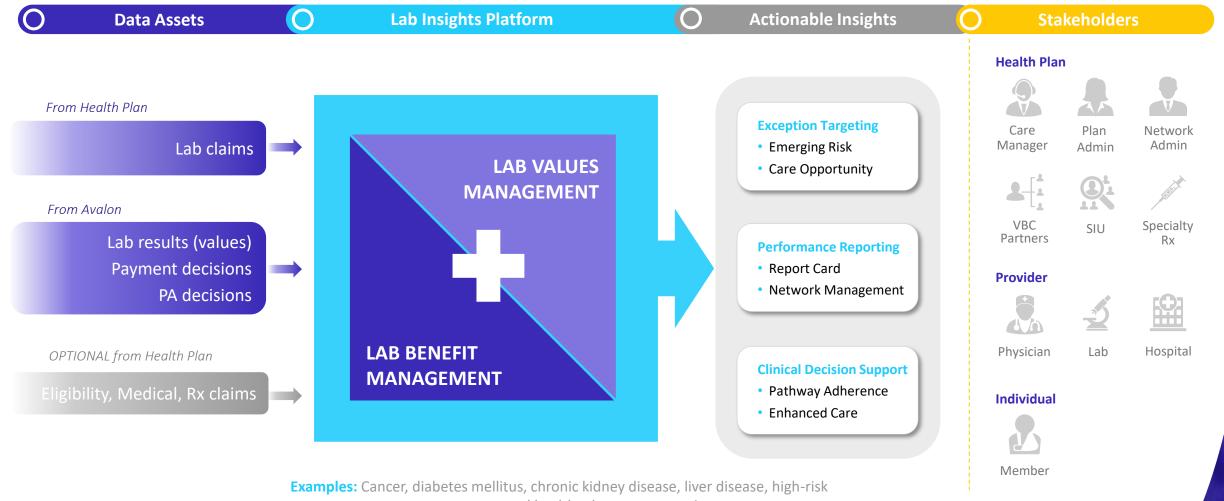
CRITICAL INSIGHTS AT EACH STEP TO DELIVER VALUE-DRIVEN CARE





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Avalon Lab Values Management



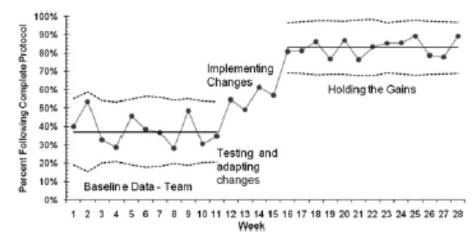
pregnancy, mental health, pharmacogenomics



Criteria for Lab Values Management Condition

CANCER, DIABETES, CHRONIC KIDNEY DISEASE, LIVER DISEASE, HIGH RISK PREGNANCY, MENTAL HEALTH

- Prevalence:
 - Each condition has at least a 2% prevalence
 - Conditions represent at least 20% of a population
- Higher Cost: Each condition add at least 50% to the baseline PMPM cost
- Variation of care
 - Conditions have care variations that lead to wide differences in cost and quality outcomes
 - Variations occur within same community and across communities (disparities, SDOH)
- Lab results are essential for treatment decisions





BMJ Qual Saf 2011;20(Suppl 1):i36-i40. doi:10.1136/bmjqs.2010.046334



USE CASES

Chronic Kidney Disease (CKD) Breast Cancer Diabetes

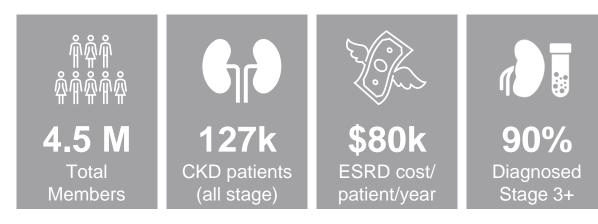


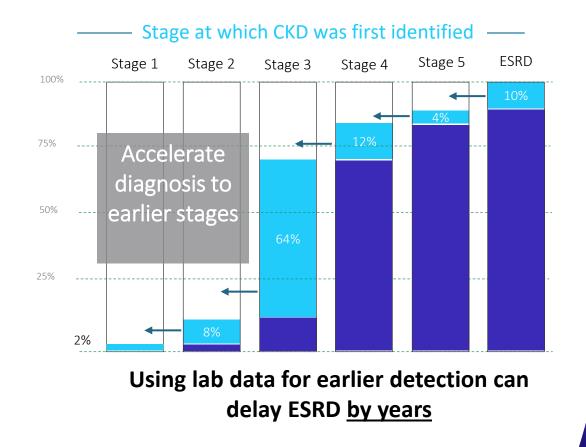
Lab Values Management: Early Detection of CKD

U.S. Data (from CDC):

- 37 million CKD cases in US adults
- 90% of them are unaware
- 9 of 10 CKD patients diagnosed at Stage 3 or later

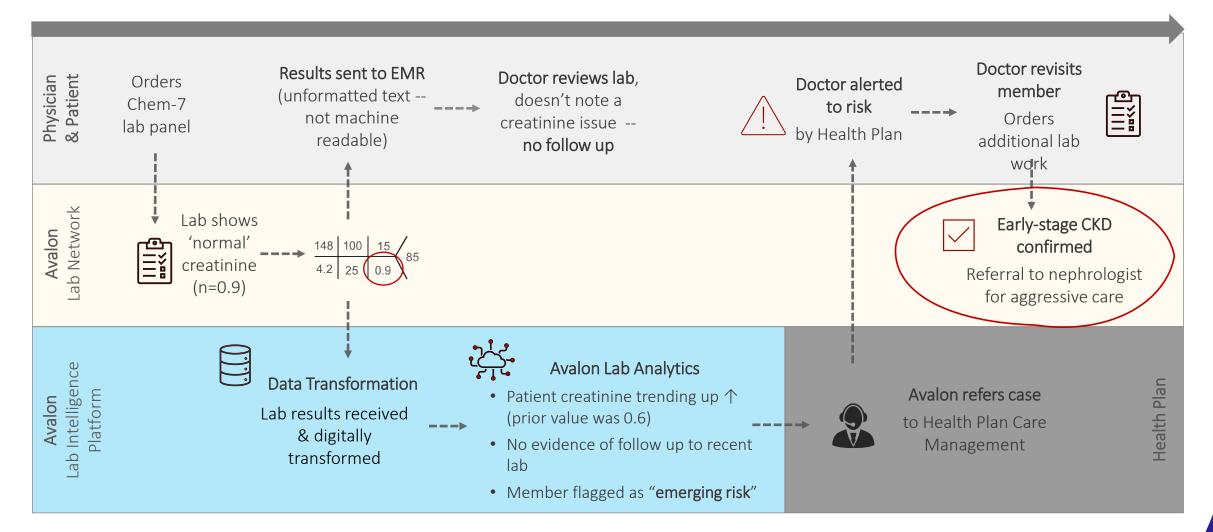
Avalon Data:



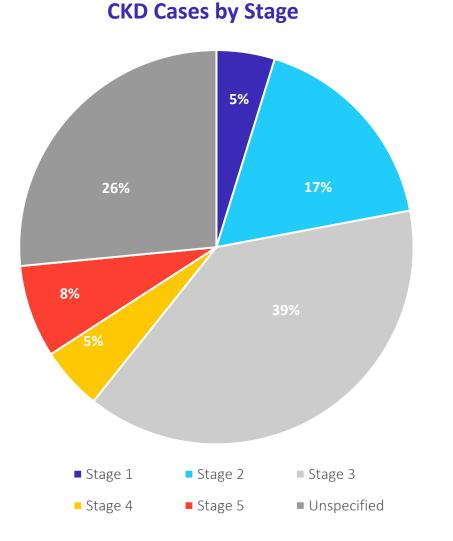


Member Journey: Early Detection of CKD

Member: 58-YO Female; 104 pounds; no history of CKD



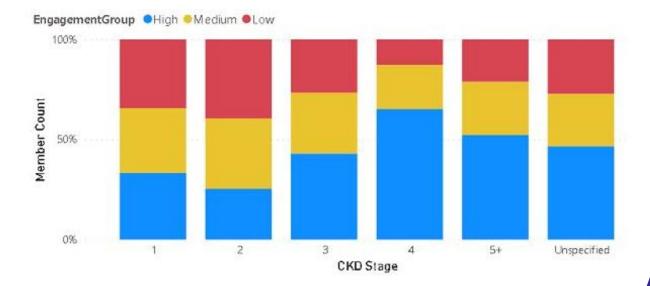
CKD Population



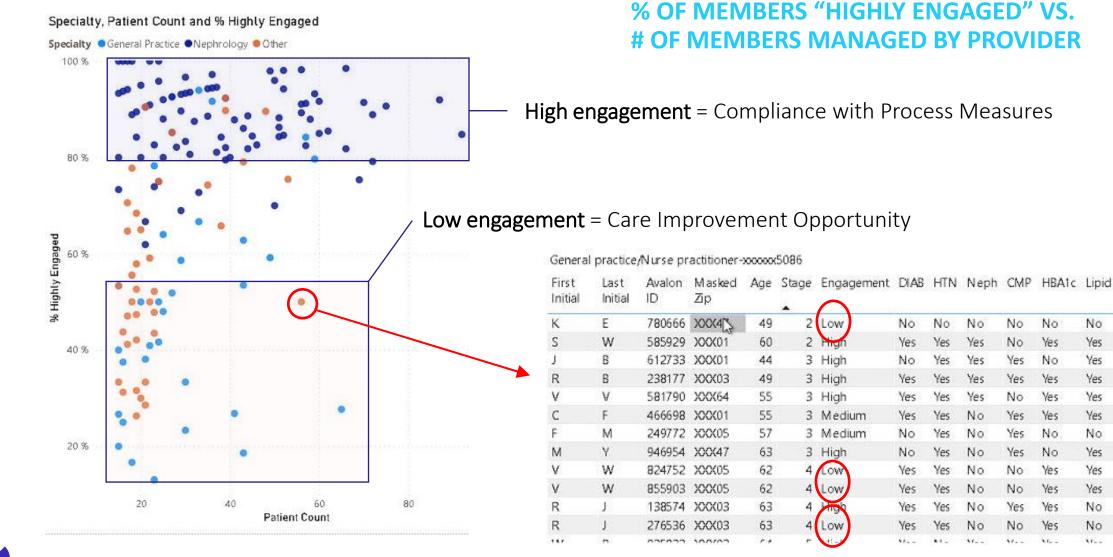
Avalon Engagement Score measures CKD quality of care - scoring attributes include:

- Annual Urine Albumin Creatinine test
- Annual Comprehensive profile
- At least 3 annual visits (labs)
- Visit to nephrologist

HIGH = 3+ attributes / MED = 2 attributes / LOW = 1 or 0



Provider CKD Performance





No

No

Yes

Yes

No

Yes

Yes

Yes

No

No

Yes

No

\$1 ...

No

Yes

No

Yes

Yes

Yes

No

No

Yes

Yes

Yes

Yes

×1 ...

No

Yes

Yes

Yes

Yes

Yes

No

Yes

Yes

Yes

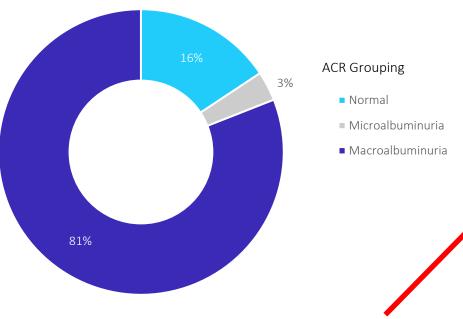
No

No

Ar

Early Detection of CKD: + Protein in Urine





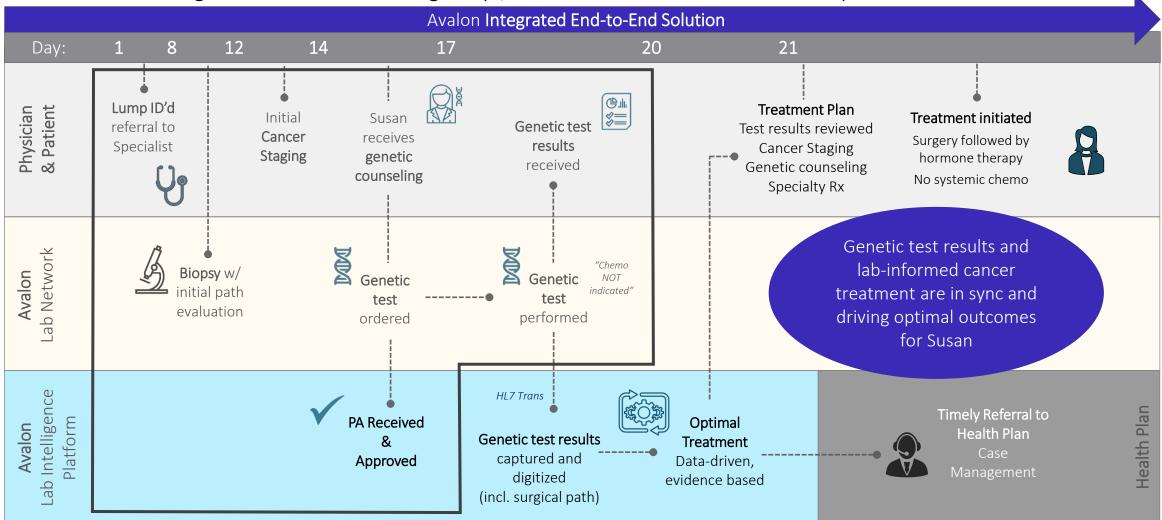
- Approximately 20% of diabetes population has positive protein detected in urine
- Target list is "suspicious" for early CKD and warrants further follow up

Avalon ID	Age	Masked Zip	DiseaseGrouping	EngagementGroup	NephYN	DIABYN	HTNYN	HbA1cValue	SerumCreatineValue	ACRValue
496309	43	XXXX36	DIAB no CKD	Low	No	Yes	Yes	9.50	0.99	998.500000
208995	42	XXXX88	DIAB no CKD	Medium	No	Yes	Yes	6.50	0.54	99.000000
992020	42	XXXX30	HTN No DIAB, CKD	Medium	No	No	Yes	6.10	0.88	99.000000
821417	46	XXX15	DIAB no CKD	Medium	No	Yes	Yes	14.00		99.000000
660112	48	XXX43	DIAB no CKD	Medium	No	Yes	Yes		1.11	99.000000
676479	48	XXX74	DIAB no CKD	Medium	No	Yes	Yes	6.00	1.05	99.000000
761760	52	XXX23	HTN No DIAB, CKD	Medium	No	No	Yes	5.70	1.01	99.000000
73807	63	XXX61	DIAB no CKD	Medium	No	Yes	Yes		0.80	99.000000
306611	23	XXX60	HTN No DIAB, CKD	High	Yes	No	Yes		1.10	988.000000
491341	35	XXX92	Other	High	Yes	No	No		1.26	983.000000
485797	53	XXX20	DIAB no CKD	High	Yes	Yes	Yes		0.70	981.500000
852203	48	XXX27	DIAB no CKD	Medium	No	Yes	No	7.25	1.05	98.000000
466841	51	XXXX53	HTN No DIAB, CKD	Low	No	No	Ves	5.90	0.68	98.000000
81941	57	XXXX88	DIAB no CKD	Low	No	Yes	No	8.70		98.000000
389159	58	XXX18	DIAB no CKD	Medium	No	Yes	Yes		1.19	98.000000
411771	45	XXXX85	DIAB no CKD	Low	No	Yes	Yes	6.50	0.75	97.000000
46336	47	XXX69	DIAB no CKD	Medium	No	Yes	Yes	8.70	1.04	97.000000
620537	47	XXX42	HTN No DIAB, CKD	Medium	No	No	Yes	6.30	1.17	97.000000
268653	51	XXXX30	DIAB no CKD	Medium	No	Yes	Yes	9.60	0.65	97.000000
90532	51	000030	DIAB no CKD	Low	No	Yes	Yes	9.60	0.65	97.000000
450938	52	XXX15	DIAB no CKD	Medium	No	Yes	Yes		0.99	97.000000
947377	54	XXXX88	DIAB no CKD	Medium	No	Yes	Yes	11.65	0.79	97.000000
206875	56	XXXX05	DIAB no CKD	Medium	No	Yes	Yes		1.12	97.000000
144514	44	XXXX35	HTN No DIAB, CKD	Low	No	No	Yes		0.92	965.000000
88582	57	XXXX30	DIAB no CKD	Medium	No	Yes	Yes	7.70	0.87	961.000000
649648	35	XXXX32	HTN No DIAB, CKD	Medium	No	No	Yes	5.40	0.91	96.000000
315225	46	XXXX10	DIAB no CKD	Medium	No	Yes	No		0.75	96.000000
634909	56	XXX14	DIAB no CKD	Medium	No	Yes	Yes	6.60	0.75	95.000000
638297	57	XXXX06	DIAB no CKD	Medium	No	Yes	Yes		1.17	96.000000
608749	36	XXXX44	HTN No DIAB, CKD	Medium	Yes	No	Yes		0.65	959.500000
168736	50	XXX61	DIAB no CKD	Medium	No	Yes	Yes	7.35	1.24	956.000000
890341	62	XXXX22	DIAB no CKD	Medium	No	Yes	Yes		1 27	955.700000



Member Journey: Stage II Breast Cancer

Susan is a 45-YO single mother of two teenage boys, and her GYN has discovered a lump...



Measuring Adherence to Lab-Informed Treatments

Susan is a 45-YO single mother of two teenage boys, and her GYN has discovered a lump...

Successful surgery and results of a genetic test (Oncotype DX) are consistent with: "Chemo does not provide benefit"

	Oncology Center #1	이ncology Center #2	Oncology Center #3
Patients w/ Oncotype DX score <25*	200	150	240
# treated with chemotherapy	9	15	36
% treated with chemotherapy	4.5%	10%	15%



Use Case: Population Profile – Diabetes

Process Measures

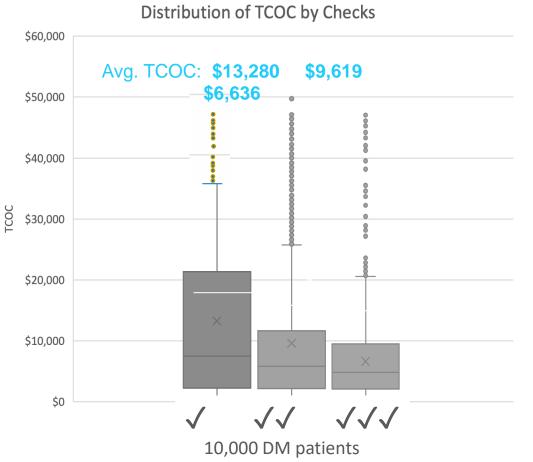
Each member earns one \checkmark for each of the following (max of $\checkmark \checkmark \checkmark$):

Annual A1c test Annual lipid profile 2 PCP visits per year Members segmented into:

 \checkmark = only 0 or 1 of 3 measures

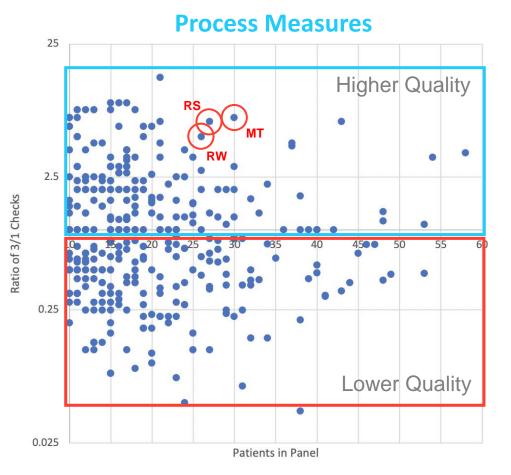
 $\sqrt{\sqrt{}}$ = 2 of 3 process measures

 $\sqrt{\sqrt{3}}$ = 3 of 3 process measures



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Use Case: Physician Quality Profile - Diabetes



Physician network stratified by Process Measures (Ratio $\sqrt{\sqrt{3}}$ and Panel Size

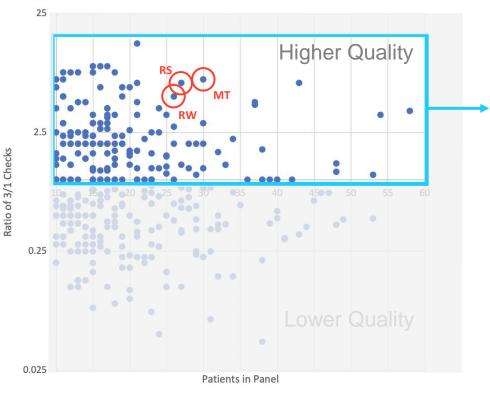
Process Measures

- Analysis based on claim data
- Measures consistent with HEDIS and Star Metrics
- Normally we would focus efforts on lower portion of graph with goal of improving process metrics . . .
- . . .but what if we look at higher quality process docs? Are they the same?



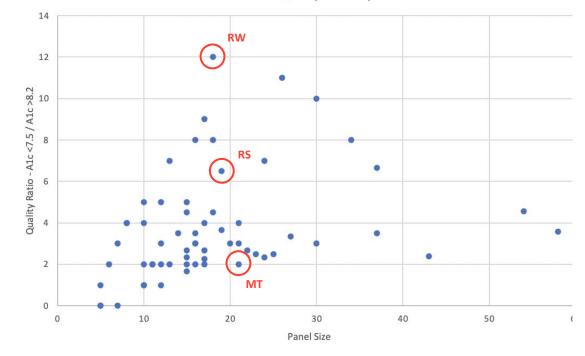
Use Case: Physician Quality Profile – Diabetes

Process Measures



Physician network stratified by Process Measures (Ratio $\sqrt{\sqrt{4}}$ / $\sqrt{2}$) and Panel Size

Outcome Measures – A1c results



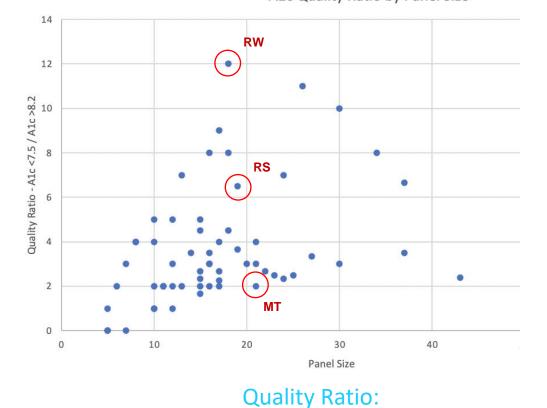
A1c Quality Ratio by Panel Size

Quality Ratio: # members A1c<7.5% / # mem > 8.2%

avalon

Use Case: Physician Quality Profile – Diabetes

Outcome Measures – A1c results

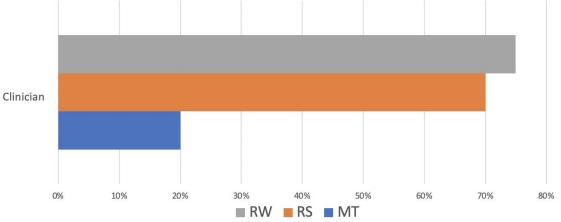


A1c Quality Ratio by Panel Size

members A1c<7.5% / # mem > 8.2%

valon

Clinician 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% ■ RW ■ RS ■ MT % Re-test A1c w/ in 4 months



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- Lab Values when digitized at scale provide unique insights into a population
- Lab Values are leading indictors for identifying emerging risk in an individual (contrast with hospital admission which is a lagging indicator)
- Quality of care and performance by providers can be improved by leveraging the right data and insights





CLOSING REMARKS

Bill Kerr, M.D., Chief Executive Officer, Avalon





SAVE THE DATE OCTOBER 19 2:00-3:30PM EDT

AVALON HEALTHCARE FORUM

- Diagnostics on the Horizon: Presented by Dr. Rob Epstein
- Washington, D.C. Policy Update
- Client Panel



Thank you



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Prospects Contact: Barry Davis, Chief Growth Officer

201-218-3425 barry.davis@avalonhcs.com

