

The Role of Community Oncology in Addressing Cancer Health Disparities

Kashyap Patel, MD, ABOIM, BCMAS

President

Community Oncology Alliance

Immediate Past Chairman, Clinical Affairs

Association of Community Cancer Centers

Medical Director of Health Equity

IntrinsiQ Specialty Solutions

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Challenges

What is the Problem?



Segments of the US population are disproportionately less likely to receive standard recommended cancer care.

34% of all cancer deaths in patients 25 to 74 years old could be prevented if socioeconomic disparities were eliminated.

Eliminating disparities in minorities would have saved \$230 billion in direct costs and over \$1 trillion in premature deaths and illnesses between 2003 and 2006.

What is the Problem?

The average life expectancy gap for babies born in New Orleans may be as much as 25 years.

Robert Wood Johnson Foundation, www.rwjf.org/en/library/infographics/new-orleans-map.html, 2013.

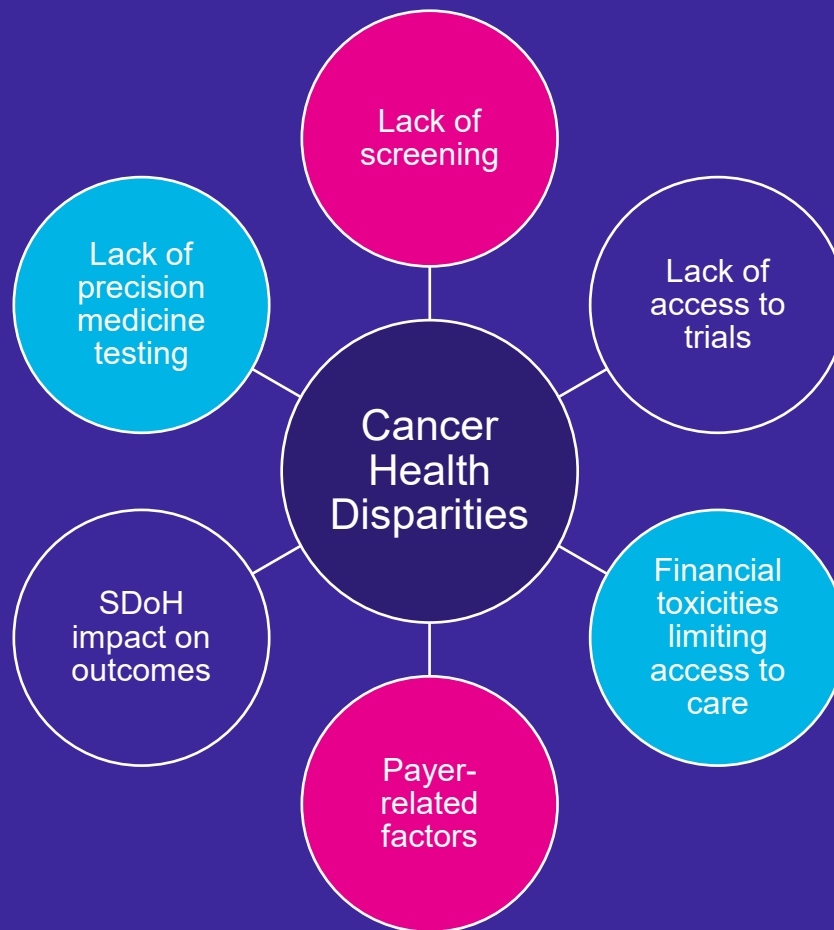
RWJF Commission
to Build a Healthier America

Robert Wood Johnson Foundation



What is the Problem?

Multiple factors interact to create cancer health disparities (CHD).



Social Determinants of Health



Lack of Cancer Screening and Impact on Individual and Population Health

Cancer screening saves lives and reduces total lifetime cost of care.

Breast cancer is the most common cancer worldwide.¹ In American women, it is the most diagnosed and the second leading cause of cancer death.²

- Even though breast cancer is curable when caught early, nearly **30%** of women 50 years and older **are not up-to-date** with screening mammograms.³
- The rate is especially low among uninsured women, with only **30%** **being current with recommended screening**.

87% of eligible Medicaid or Medicare participants did not receive lung cancer screenings, according to one study.⁴

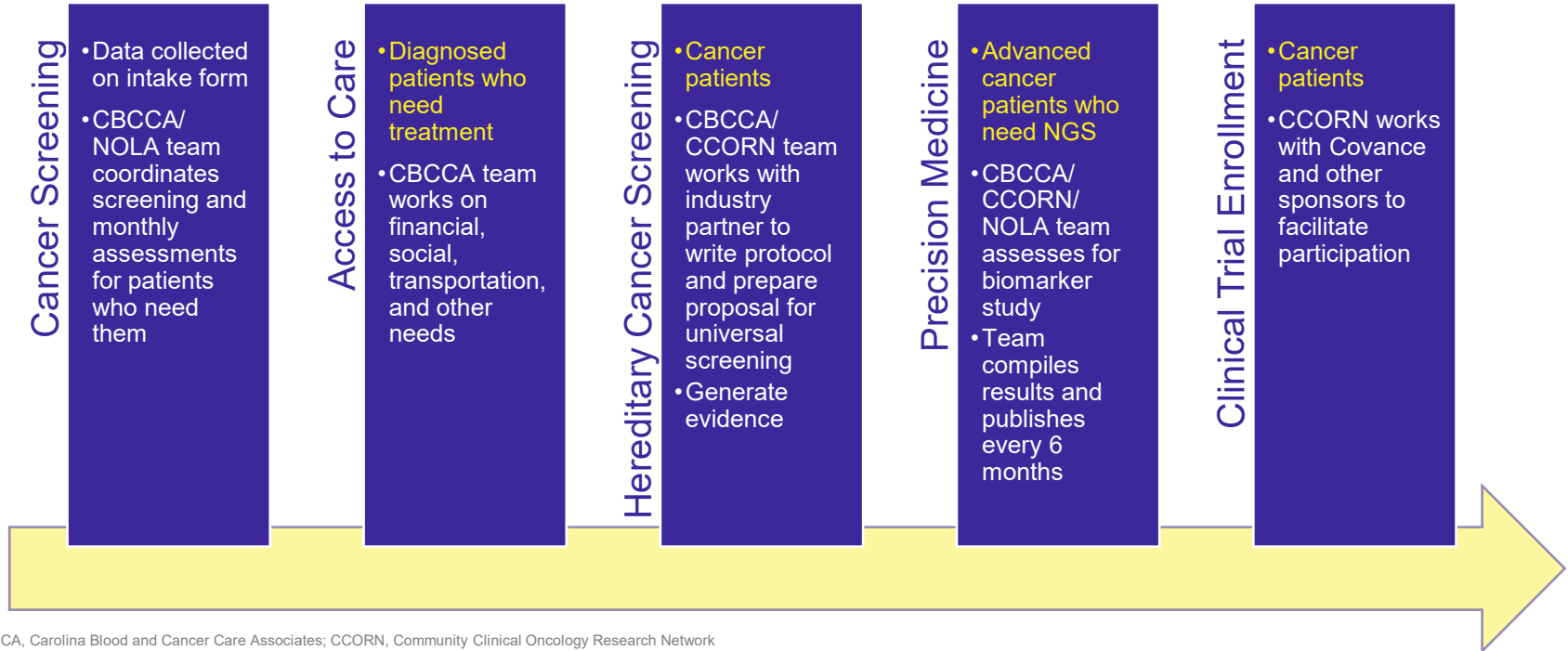
- States in which Medicaid covered this preventive exam had higher screening rates.
- Only **15.7%** of 48,923 Medicaid patients received screening, meaning **84%** did not.
- Only **12.5%** of 332,926 Medicare beneficiaries received screening, meaning **87.5%** were not screened.

¹World Cancer Research Fund International, <https://www.wcrf.org/cancer-trends/worldwide-cancer-data/>, 2022. ²Centers for Disease Control and Prevention, <https://www.cdc.gov/cancer/dccp/research/update-on-cancer-deaths/index.htm>, 2022. ³American Cancer Society, *Breast Cancer Facts & Figures 2019-2020*, 2020. ⁴Allen S, Sandberg N, Gallagher K, et al. Despite insurance coverage, at-risk people not getting life-saving lung cancer screenings. Epic Research, <https://epicresearch.org/articles/despite-insurance-coverage-at-risk-people-not-getting-life-saving-lung-cancer-screenings>, 2021.

Community-Based Program to Address Challenges

NOLA Program

No One Left Alone: Addressing cancer health disparities at a local level





NOLA Program in Action

Addressing cancer health disparities at a local level

Screenings

- Identified and arranged for exams for more than 600 patients who had not received screenings

Testing

- Established pilot program to identify gaps in germline tests
- Reached testing rates over 80% in 3 large groups

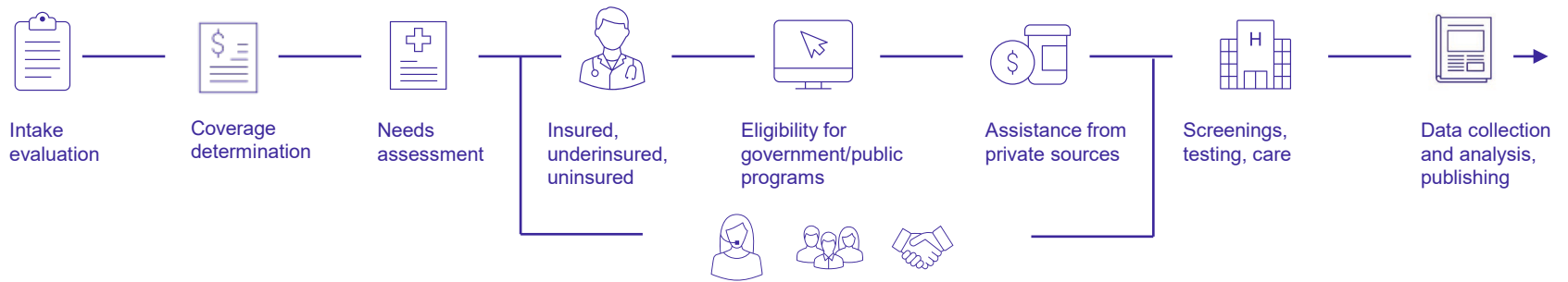
Finances

- Raised nearly \$2.3 million to cover out-of-pocket costs or free drugs
- Created insurance fund currently supporting more than 20 patients

Starting Phase 3 studies soon

NOLA Process

Addressing cancer health disparities at a local level



NOLA Needs Evaluation

Meeting patient needs



Fully insured, able to cover OOP costs

- Verify benefits
- Calculate OOP needs
- Obtain preauthorizations
- Proceed with treatment plan



Underinsured, needs assistance with OOP costs

- Calculate OOP needs
- Identify gaps
- Seek assistance based on type of insurance
 - VA, MAP
- Determine eligibility for federal, state, and local programs



Underinsured, Medicare only

- Pursue copay assistance, free drugs
- Determine eligibility for Medicaid, LIS Part D, other federal and state local programs
- Investigate local programs, 501(c)(3) nonprofits



Uninsured

- Determine eligibility for federal, state, and local programs
- Pursue copay assistance, free drugs, [cancercare.org](https://www.cancer-care.org)
- Investigate legislative help, Medicaid PBM, other agencies

NOLA Patient Intake Form

Generate task list and action plan for meeting health and social needs as well as eligibility for assistance

Food insecurity			
In the past 12 months has there been a point where the food you bought just didn't last and you didn't have money to get more?			If yes, is it often or sometimes
Within the past 12 months, have you worried that your food would run out before you got money to buy more			If yes, is it <u>often</u> or sometimes
Family responsibilities for family members/friends/social support/community activity			
Are you responsible for child/elder care in your family? Do problems getting childcare make it difficult for you to work/study	Yes	No	
Do problems getting childcare make it difficult for you to get healthcare?			
Do you have friends or neighbors support	Yes	No	
Housing: access, utility services, household density			
Do you have any of these problems with your housing? Pest infestation/Mold/ Lead paint or pipes/ Inadequate heat/ Oven or Stove not working/ Water Leaks/ No or non-function smoke detector/ None of the above	Yes	No	If yes, how often
How many people live in your house/apartment?			
Do you exercise	Yes	No	
Do you drink alcohol	yes	No	If yes; daily or a social drinker
Do you smoke	yes	No	Pack years
Do you take any recreational drugs	yes	No	
PERSONAL AND FAMILY HISTORY OF CANCER			
12. FAMILY H/O	CANCER	(WRITE IN) TYPE OF CANCER?	AGE/YEAR AT DIAGNOSIS
a. SELF	Yes/ No	_____	_____or Don't know
b. Sibling	Yes/ No	_____or Don't know	_____or Don't know
c. Birth mother	Yes/ No	_____or Don't know	_____or Don't know
d. Her Parents	Yes/No	_____or Don't know	_____or Don't know
e. Her Siblings	Yes/No	_____or Don't know	_____or Don't know
f. Father	Yes/No	_____or Don't know	_____or Don't know
g. His Parents	Yes/No	_____or Don't know	_____or Don't know
h. His Siblings	Yes/ No	_____or Don't know	_____or Don't know

Colon Cancer Screening Assessment			
Does any of your family members had colon cancer	Yes (at what age)	No	
<i>Do you have ulcerative colitis/ Crohn's disease or IBD</i>			
<i>Have you been screened or provider discussed colon cancer screening</i>			
Lung Cancer Screening Assessment			
Do/Did you smoke	Yes	No	
<i>How many packs and years</i>			
<i>Have you been screened for lung cancer No insurance/did not know/never heard about it (is eligible)</i>			
BREAST Cancer Screening			
Have you ever had a discussion with your doctor about the risk/benefits of breast cancer screening with mammogram?	Yes	No	
Have you ever had a mammogram? If yes,	If Yes, when	No	
Have you ever had a breast biopsy?	Yes	No	
If "Yes", result of biopsy	Right/left	Result: Breast cancer/pre-cancerous	
Have you or anyone in your family been tested for breast cancer gene mutation?	Yes	No	If yes, type of mutation
CERVICAL CANCER ASSESSMENT			
Have you ever had a Pap smear?	Yes	No/ Don't know	
<i>27b. If "No", is there a reason why you have not had a Pap smear yet in the past 2 years?</i>			
Prostate Cancer Screening			
Have you ever had your PSA checked	Yes	No/ Don't know	
Bone density			
Have you ever had Bone density checked for osteoporosis	Yes	No/ Don't know	
Advanced Care Planning			
Do you have a living will or have you completed advance care planning? Do you want us to help you? (will not cost you)	Yes	No/ Don't know	
Research: Our cancer center participates in multiple national research studies to develop understanding about cancer, how it occurs, what tests help us, how best to develop new treatments and how to bring equity, equality and better access to all socioeconomic class of individuals (all of these studies are in full compliance of regulatory agencies like Office of Human Research Protection ACT)			
Would you be willing to participate in research to better understand disease process by certain tests (blood or tissue)	yes	no	If not why
Would you be willing to participate in a research that helps develop new drugs for cancer patients (including for you or future)	yes	No	If not, why

Demographics

- Race, ethnicity, language
- Income, education, employment

Social and economic needs

- Transportation, housing
- Food insecurity
- Responsibilities, social support

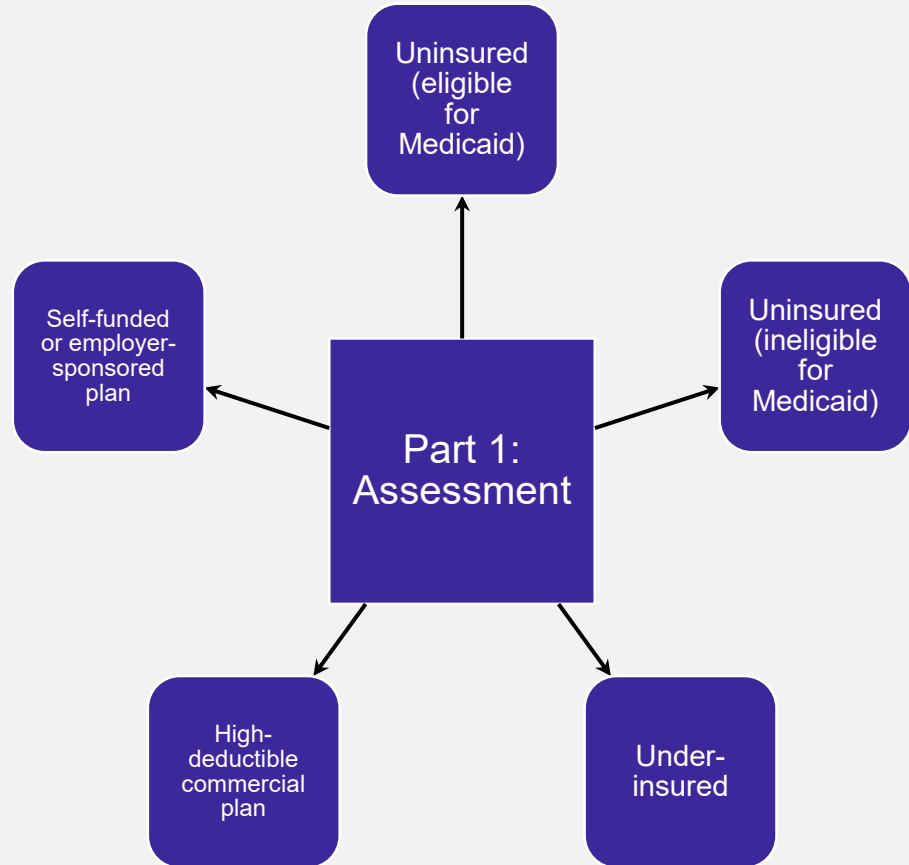
Health information and needs

- Personal and family histories
- Screenings
- Research participation

How NOLA Provides Access to Care

Part 1: Assessment

- Identify insurance status
- Collect income information
- Collect information on dependents



Master NOLA Spreadsheet

Health needs include

- Cancer screenings
- Smoking cessation
- Osteoporosis

Social needs include

- Financial stability
- Phone/internet access
- Mental health resources
- Utilities
- Food security
- Transportation

Pharmacy needs

- Access to medications
- Transportation

Age	Office Location	Provider	Type of Need	Next Appointment
55	Lancaster	Nathwani	Not enough money for bills, access to primary doctor	4/28/22
67	Lancaster	Naidu	Utilities, No internet	4/28/22
39	Rock Hill	Naidu	Menatl health resources	5/2/22
33	Lancaster	Nathwani	Not enough money for bills	5/3/22
58	Rock Hill	Rabara		5/3/22
71	Rock Hill	Gor	not enough money for bills	5/3/22
75	Rock Hill	Rabara	Transportation, Money for bills, +mental health screening	05/03/22
45	Lancaster	Nathwani	Not enough money for bills, phone access, Utilities	5/4/22
68	Rock Hill	Patel		5/4/22
72	Lancaster	Gor	Phone access	5/4/22
82	Lancaster	Nathwani	Phone/internet access	5/4/22
84	Lancaster	Nathwani	Transportation, Utilities	5/9/22
69	Rock Hill	Patel		5/11/22
81	Lancaster	Gor	Mental health resources	5/11/22
63	Rock Hill	Rabara	Phone/internet access	5/12/22
65	Lancaster	Nathwani	Utilities	5/16/22
73	Lancaster	Nathwani	Not enough money for bills, phone/internet access	5/16/22
64	Rock Hill	Gor	Food insecurities	5/23/22
69	Rock Hill	Naidu	Phone/internet access	5/23/22
24	Rock Hill	Lavender		5/26/22
70	Lancaster	Nathwani	Utilities, transportation Housing (mold)	5/26/22
85	Rock Hill	Naidu	Not enough money for bills	5/31/22
51	Rock Hill	Gor		6/6/22
85	Lancaster	Nathwani	Phone/internet access	6/7/22
50	Rock Hill	Patel	Not enough money for bills, food insecurities, housing	6/8/22
62	Rock Hill	Rabara	Not enough money for bills, access to primary doctor	6/8/22
Master NOLA Sheet				Health Needs
				Social Needs
				Pharmacy Needs



NOLA Needs Evaluation

Meeting patient needs

Health needs

- Screenings, based on personal and family history, occupation, published recommendations
 - Schedule screenings and follow-up
- Hereditary cancer testing
 - SEMA4, PREFER, Gallery, GRAIL
- Clinical trial participation

Financial needs

- Contributions and assistance with copays, deductibles, other gaps
 - Foundation support (CBCCA)
 - State and Federal government programs
 - Local programs
 - Private assistance (pharma, labs)
 - 501(c)(3) nonprofit organizations

NOLA Progress



- Thank you to Johnson and Johnson, Community Oncology Alliance, and Amgen for “walking the talk”
- Could use more support from pharma for local initiatives
- State and federal help would be a possibility

Learnings

- Teamwork and cohesive approach with consistency necessary
- All solutions local
- SDoH very critical
- Patient assistance programs and financial assistance not sufficient
- Obtaining insurance help best approach for financial toxicity
- Requirements: biomarker testing, just-in-time studies, access to clinical trials

NOLA by the Numbers

Early results

- 25 foundations contributed financial support for 101 patients
- Free drugs worth more than \$1.63 million obtained

Addressing Cancer Health Disparities in a Multilateral Collaboration in an Independent Community Cancer Clinic: Translating Words Into Action

KASHYAP PATEL, MD; HIRANGI MUKHI, BS; ANJANA PATEL, BSC; NIYATI NATHWANI, MD; DHWANI MEHTA, MS; JENNIFER SHERAK, MBA; NATASHA CLINTON, MSN, APRN, AOCNP; HOLLY PISARIK, JD; BENJAMIN BROWN, BS; SARA ROGERS, PHARM.D; MARY KRUCZYNSKI; NICOLAS FERREYROS, BA; TED OKON, MBA

APPENDIX A. Foundation Support Procured for CBCCA Patients Under NOLA, 2021

Foundations	No. of patients enrolled	Paid by foundation	Pending payment, foundation (in process)
Company 1	2	\$0.00	\$2492.28
Company 2	3	\$12,302.57	\$0.00
Company 3	2	\$5079.55	\$0.00
Company 4	14	\$12,507.19	\$407.62
Company 5	1	\$2055.00	\$0.00
Company 6	1	\$2779.50	\$0.00
Company 7	1	\$1348.54	\$0.00
Company 8	3	\$6550.72	\$0.00
Company 9	1	\$6198.70	\$521.76
Company 10	2	\$3335.88	\$0.00
Company 11	32	\$13,797.98	\$0.00
Company 12	1	\$315.00	\$80.00
Company 13	2	\$5000.00	\$0.00
Company 14	4	\$3739.69	\$135.00
Company 15	3	\$1705.03	\$100.44
Company 16	5	\$7830.97	\$0.00
Company 17	1	\$381.82	\$0.00
Company 18	3	\$11,207.14	\$0.00
Company 19	3	\$6414.69	\$0.00
Company 20	1	\$6616.52	\$0.00
Company 21	2	\$529.85	\$0.00
Company 22	9	\$6973.80	\$0.00
Company 23	3	\$9321.04	\$0.00
Company 24	1	\$6080.34	\$0.00
Company 25	1	\$15.00	\$0.00
TOTAL	101	\$132,194.52	\$3737.30
			\$3737.30 (pending)
			\$135,931.82

APPENDIX B. Free Drugs Received for Patients

Dosage	No. of units	Cost per unit	Total cost
12,800 mg	1280	\$69.70	\$89,216.00
6100 mg	610	\$69.83	\$42,596.30
16,600 mg	16,600	\$49.34	\$819,044.00
1500 mg	1500	\$19.65	\$29,475.00
14,500 mg	580	\$32.09	\$18,612.20
7650 mg	765	\$90.42	\$69,171.30
1260 mg	1260	\$12.60	\$15,876.00
3000 mg	300	\$73.39	\$22,017.00
1,240,000 U	1240	\$8.50	\$10,540.00
4200 mg	420	\$41.13	\$17,274.60
2250 mg	2250	\$1.09	\$2452.50
45 mg	6	\$104.71	\$628.26
720 mg	720	\$27.62	\$19,866.40
4200 mg	420	\$67.77	\$28,463.40
1500 mg	150	\$39.16	\$5877.00
5700 mg	570	\$84.56	\$48,199.20
560 mg	56	\$37.98	\$2126.88
840 mg	840	\$185.73	\$156,013.20
1560 mg	1560	\$60.62	\$94,567.20
20 mg	200	\$6.55	\$1310.00
10,800 mg	1060	\$74.94	\$80,935.20
1760 mg	176	\$57.33	\$10,090.08
102 mg	204	\$241.26	\$49,217.04
TOTAL			\$1,633,588.76

mg indicates milligrams; U, units
Note: Each entry represents an individual drug; names of drugs and J codes can be made available upon request.

CBCCA, Carolina Blood and Cancer Care Associates; NOLA, No One Left Behind.

NOLA by the Numbers

Comprehensive genomic profiling analysis

Next-generation sequencing, whole-exome sequencing, and liquid biopsy testing

(N = 355, December 2021)

Clinical trials available
206

Approved therapies available
60

Potential germline implications
40

Approved therapies for other cancers with mutations in same gene
40

Approved therapies for different mutation in same gene
12

Approved therapies in breast cancer with different hormonal expression
10

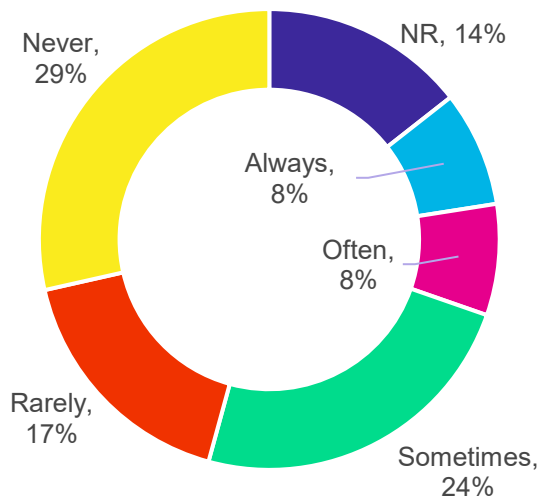
Approved therapies for same mutation in other indications
9

NCCN-approved treatments for other cancers with mutations in same gene
8

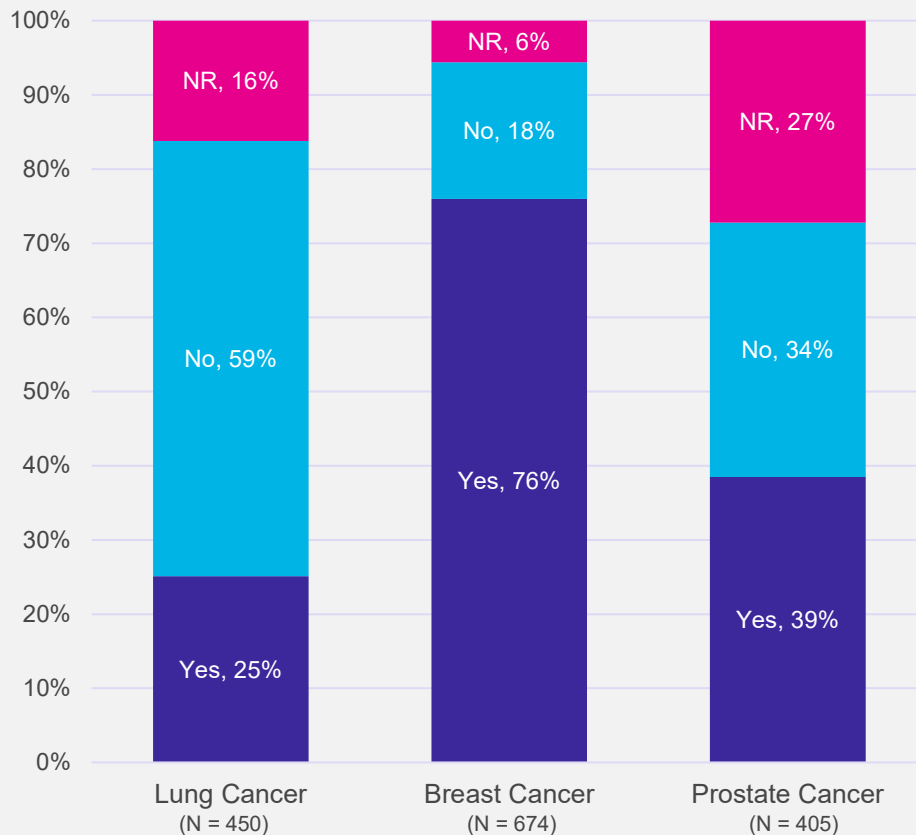
Approved therapies for more advanced mutation
6

NOLA by the Numbers

Patients Unable to Pay Bills (N = 1086)



Baseline Screenings Received



NOLA by the Numbers



Insurance needs met

3%

Social needs discussed

22%

Cancer screenings
scheduled

20%

Cancer screenings
discussed

54%

What is Next?

Implement nationwide program based on NOLA



Partnerships and expansion

- Practice participation expansion
- Industry stakeholder engagement



Identify and address more needs

- Additional patients and challenges
- Needs that affect well-being and health
 - Transportation, food, shelter
- Local, regional, and national resources



Analyze and publicize

- Track improvements in care delivery
- Publish and present
- Create “cookbook” for improving outcomes by addressing SDoH

Identify

- Identify patients, issues, and other critical needs peripheral to health care
- Refer to Pathways team or other appropriate source

Analyze and publicize

- Trace and track improvements
- Create standards for best practices
- Pursue health economics outcomes research (HEOR)
 - Seek additional funding based on improved outcomes
- Analyze comprehensive data and publish
 - National meetings, journals, media briefs, social media

Pathways Community Center

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(803) 366-7284
546 S Cherry Rd, Rock Hill SC, 29732
P.O. Box 4553, Rock Hill, SC 29732



TRANSPORTATION



CLOTHING



BENEFITS (HEALTH
INSURANCE, SNAP,
WIC, ETC.)



IDENTIFICATION
(STATE ID, BIRTH
CERTIFICATE,
SOCIAL SECURITY
CARD)



FINANCIAL AND
UTILITY
ASSISTANCE



FOOD (PANTRY
AND MEALS)



SHELTER (DAY
SHELTER,
EMERGENCY
SHELTER,
TRANSITIONAL
HOMES)



HELP TO FIND
AFFORDABLE
HOUSING



EMPLOYMENT (JOB
TRAINING,
INTERVIEW
COACHING,
PLACEMENT)



EDUCATION (LIKE
SKILLS, LITERACY,
GED, ETC.)



MEDICAL HEALTH
(ASSESSMENTS)



CRIMINAL RECORD
(EXPUNGEMENT
AND PARDON)



MENTAL HEALTH
AND SUBSTANCE
USE SUPPORT
(COUNSELING,
TREATMENT,
RECOVERY
GROUPS)

“In its first year, NOLA generated financial assistance worth more than \$1.7 million and assisted 154 patients.”

Patel, K; Mukhi H, Patel A, et al. Addressing cancer health disparities in a multilateral collaboration in an independent community cancer clinic: translating words into action. *Evid Based Oncol.* 2022;28(6)August 2022.

Thank
you