

LUNG CANCER SCREENING, SMOKING CESSATION

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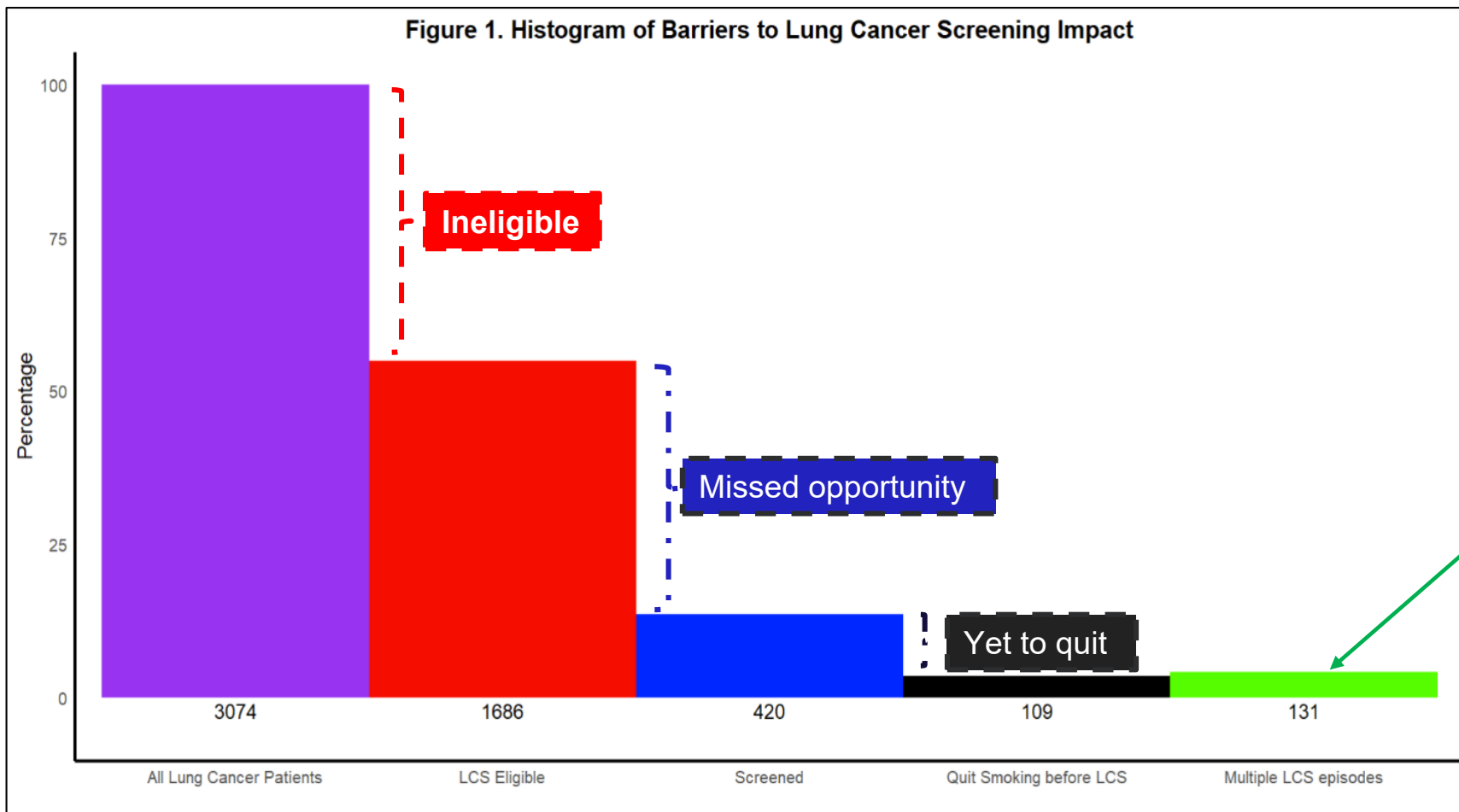


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Barriers to Lung Cancer Screening

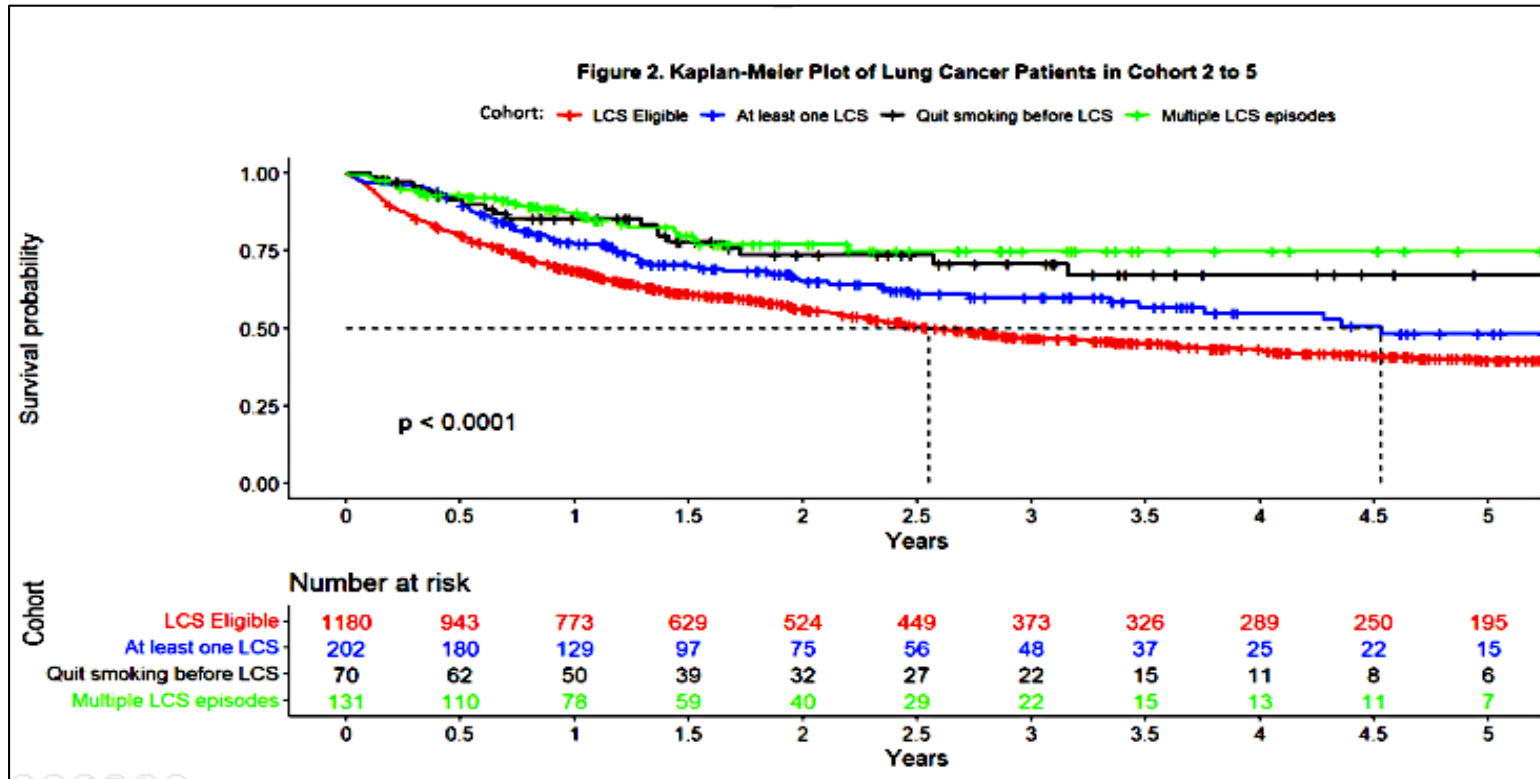
Detecting Early Lung Cancer (DELUGE) in the Mississippi Delta Cohort



Adherent: Multiple screening episodes before diagnosis

Liao, Patel, et al. Unpublished please do not post!

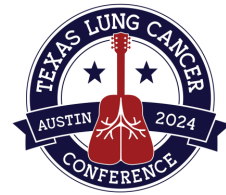
Survival of Patients in Relation to Lung Cancer Screening Experience



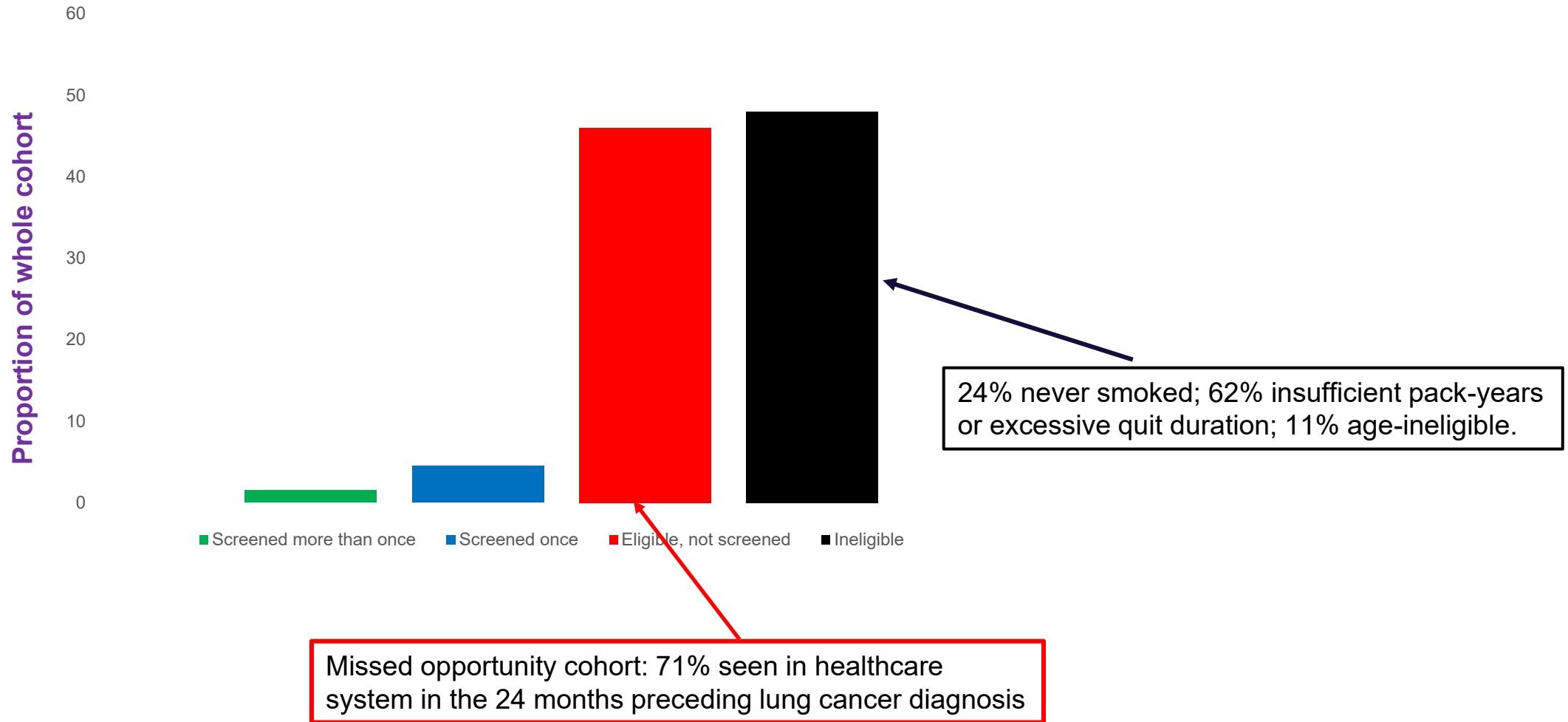
Adherent	Ineligible	Unscreened eligible	Single episode	Quit	Not quit
Ref	2.45 (1.62 – 3.70) p<0.0001	2.66 (1.76 – 4.00) p<0.0001	1.88 (1.19 – 2.97) p= 0.0072	1.31 (0.70 – 2.44) p=0.3983	2.14 (1.68 – 3.44) P= 0.0016

Liao, Patel, et al. Unpublished please do not post!

Lung Cancer Patients in a Multidisciplinary Thoracic Oncology Program 2015 – 2023. N = 1746

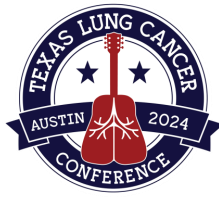


Lung Cancer Patients' Pathway to Diagnosis



Liao, Patel, et al. Unpublished please do not post!

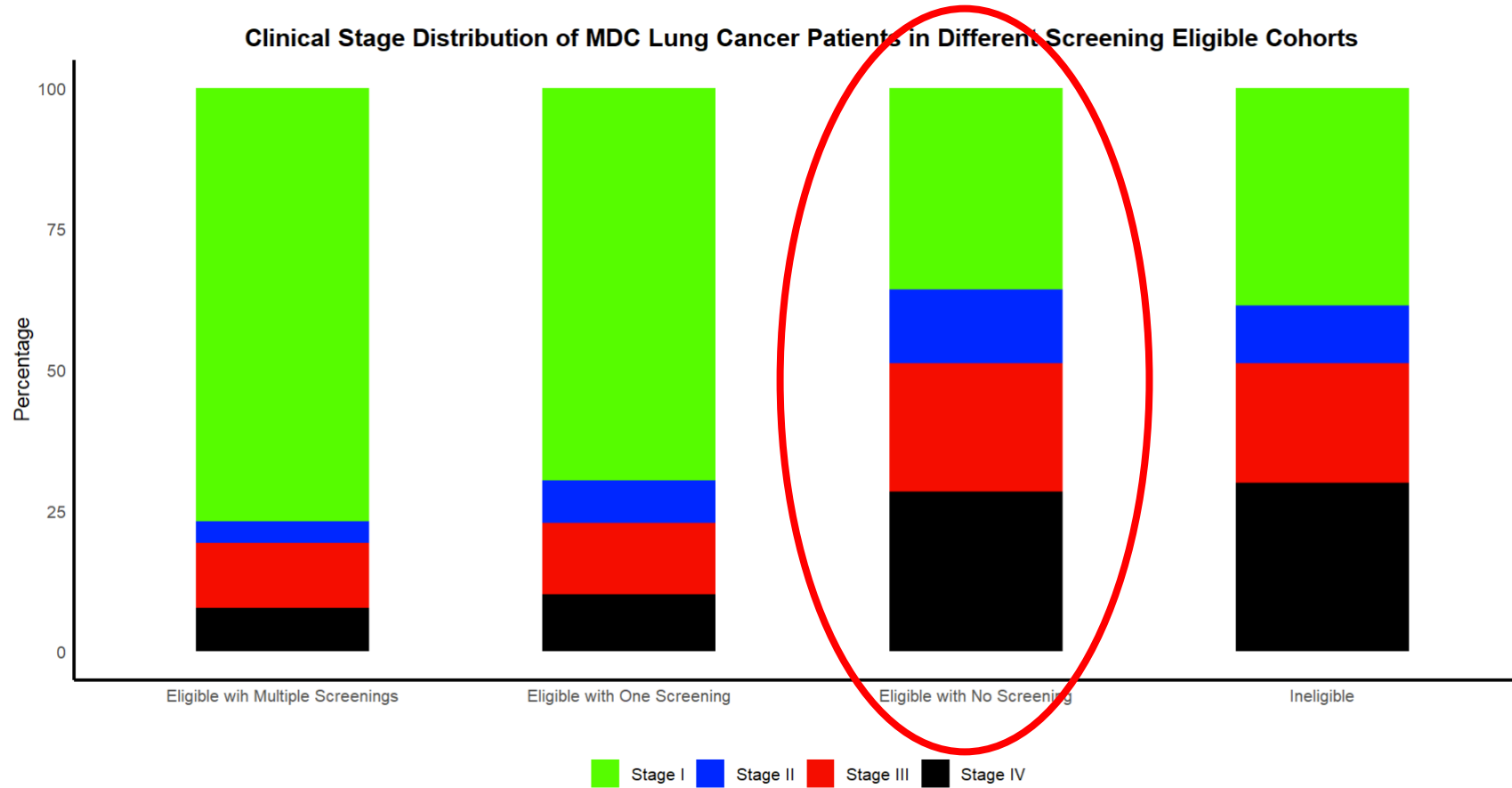
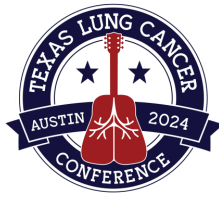
Patients Diagnosed with Lung Cancer in a Multidisciplinary Program



Patient Characteristics	Multiple episodes	Single screening episode	Missed opportunity	Ineligible
Age, Median (Q1-Q3)	72 (69.25-75)	68 (64-73)	67 (62-73)	71 (61-79)
Sex, n (%) female	12 (46)	44 (56)	368 (46)	445 (53)
Race, n (%) Black	4 (15)	13 (16)	239 (30)	255 (30)
Ethnicity, n (%) Hispanic	0	0	11 (1)	25 (3)
Smoking status, n (%)				
Active	16 (62)	52 (66)	492 (61)	208 (25)
Quit	10(38)	27 (34)	311 (39)	405 (48)
Never	0	0	0	200 (24)

Liao, Patel, et al. Unpublished please do not post!

Stage Distribution



Liao, Patel, et al. Unpublished please do not post!

Cancer and Treatment Characteristics



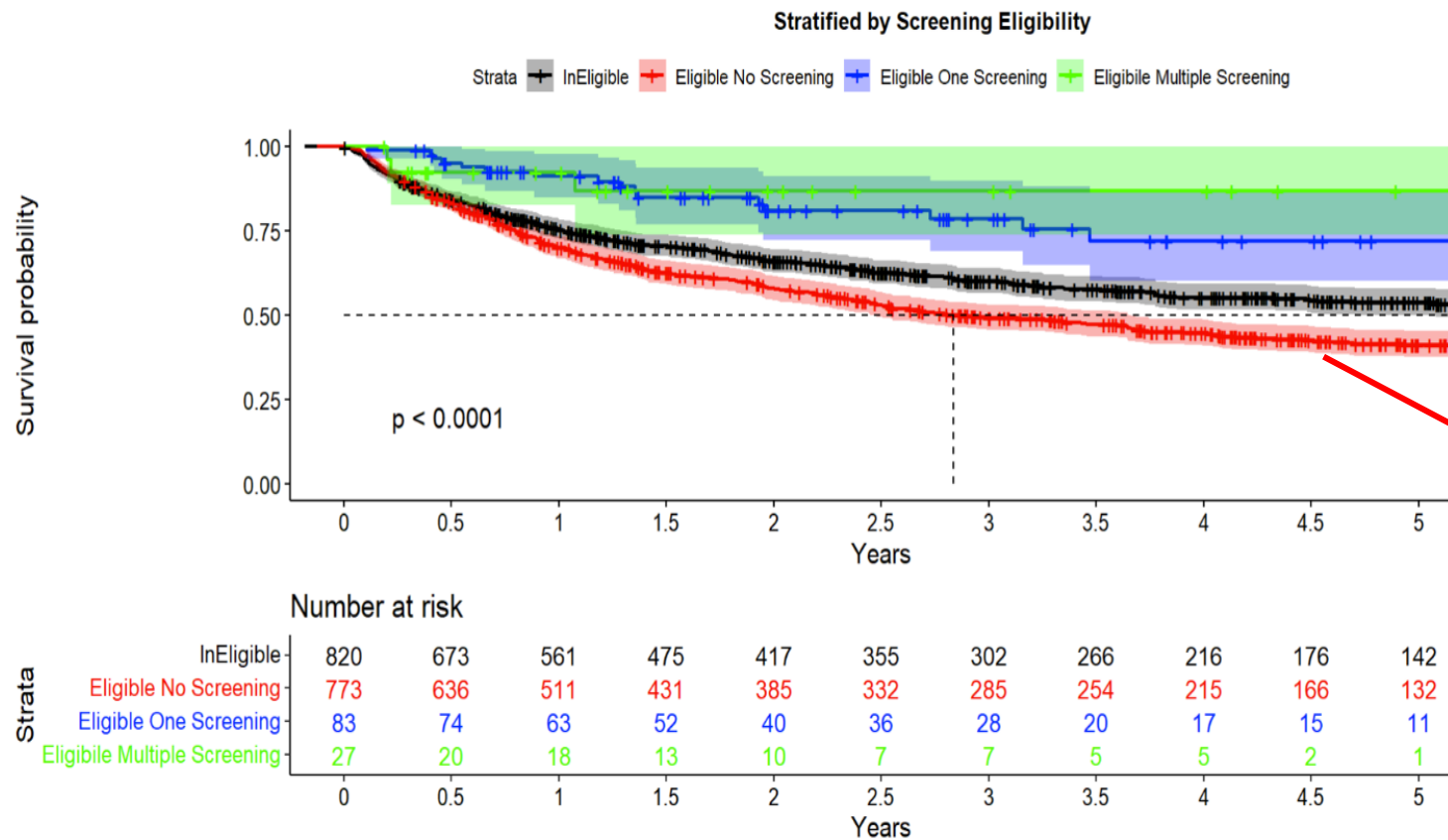
Cancer and treatment	Multiple episodes	Single screening episode	Missed opportunity	Ineligible
Histology, n (%)				
Adenocarcinoma	49 (62)	12 (46)	352 (44)	452 (54)
Squamous	22(28)	11 (42)	284 (35)	196 (23)
Small cell	3(4)	2 (8)	80 (10)	67 (8)
Primary tumor size (mm)				
Median (Q1-Q3)	20(15-32.25)	15 (12-22)	34 (20-55)	30 (18-46.25)
Treatment, n (%)				
Surgery Alone	35(44)	11 (42)	160 (20)	170 (20)
Any Surgery	47(59)	13 (50)	294 (37)	299 (36)

Liao, Patel, et al. Unpublished please do not post!

Overall Survival



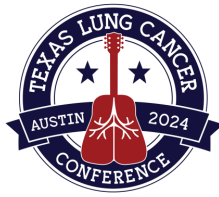
Figure 1. K-M plot of Lung Cancer Patients in MDC Program (2015-06/30/2023):



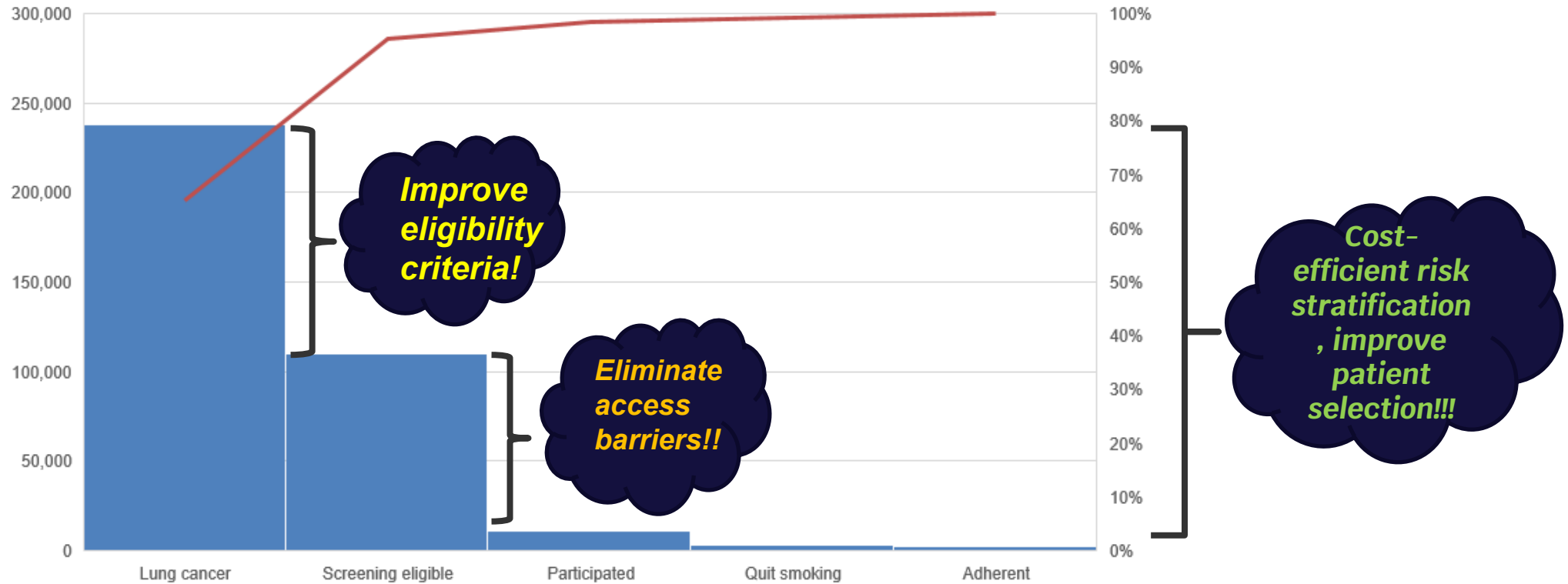
Missed opportunity cohort

Liao, Patel, et al. Unpublished please do not post!

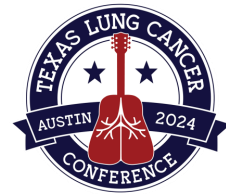
Lung cancer screening saves lives, but...



Lung Cancer Screening USA 2023: Population-Level Access and Effectiveness Challenges!



Osarogiagbon, Yang, Sequist. ASCO Educational Book 2023. PMID: 37098234



TAKE-HOME MESSAGE

For maximal population-level benefit from lung cancer screening:

- 1. All persons truly at risk should participate in LCS throughout their years of eligibility**
- 2. Persons who smoke should quit.**



DELUGE The Mid-South Miracle: Acknowledgements

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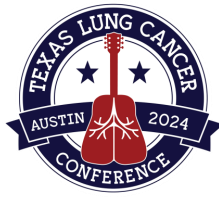
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