



UnityPoint Health
Trinity

Lung Cancer Study 2000-2011

- Stage at diagnosis
- Days to first treatment
- First course of treatment
- Cancer Review Committee

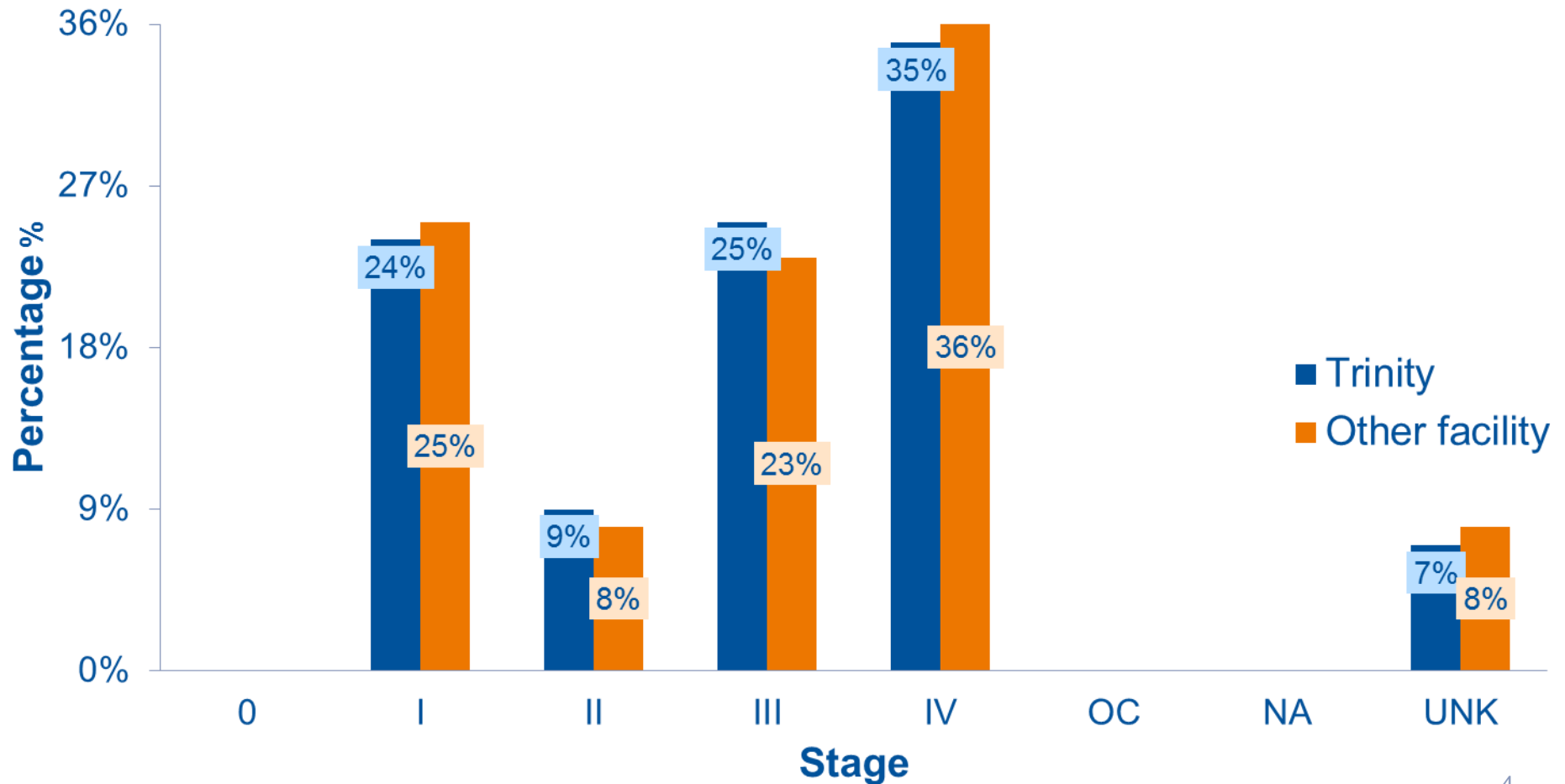
Stage of diagnosis of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2000-2011*

- UnityPoint Health – Trinity versus Comprehensive Community Cancer Program Hospitals
- Data from **807** hospitals in all states
- Combination:
 - Class of case 10-14
 - Class of case 20-22

Stage of diagnosis of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2000-2011*

Stage	Trinity (N)	Other (N)	Trinity (%)	Other (%)
1. 0	1	1389	0.09%	0.2%
2. I	276	174648	24.45%	24.87%
3. II	101	53827	8.95%	7.66%
4. III	277	164806	25.3%	23.47%
5. IV	398	252221	29.6%	35.91%
6. OC	1	674	0.09%	0.1%
7. NA	-	5	-	0%
8. UNK	75	54739	6.64%	7.79%
Total	1129	702309	100%	100%

Stage of diagnosis of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2000-2011*



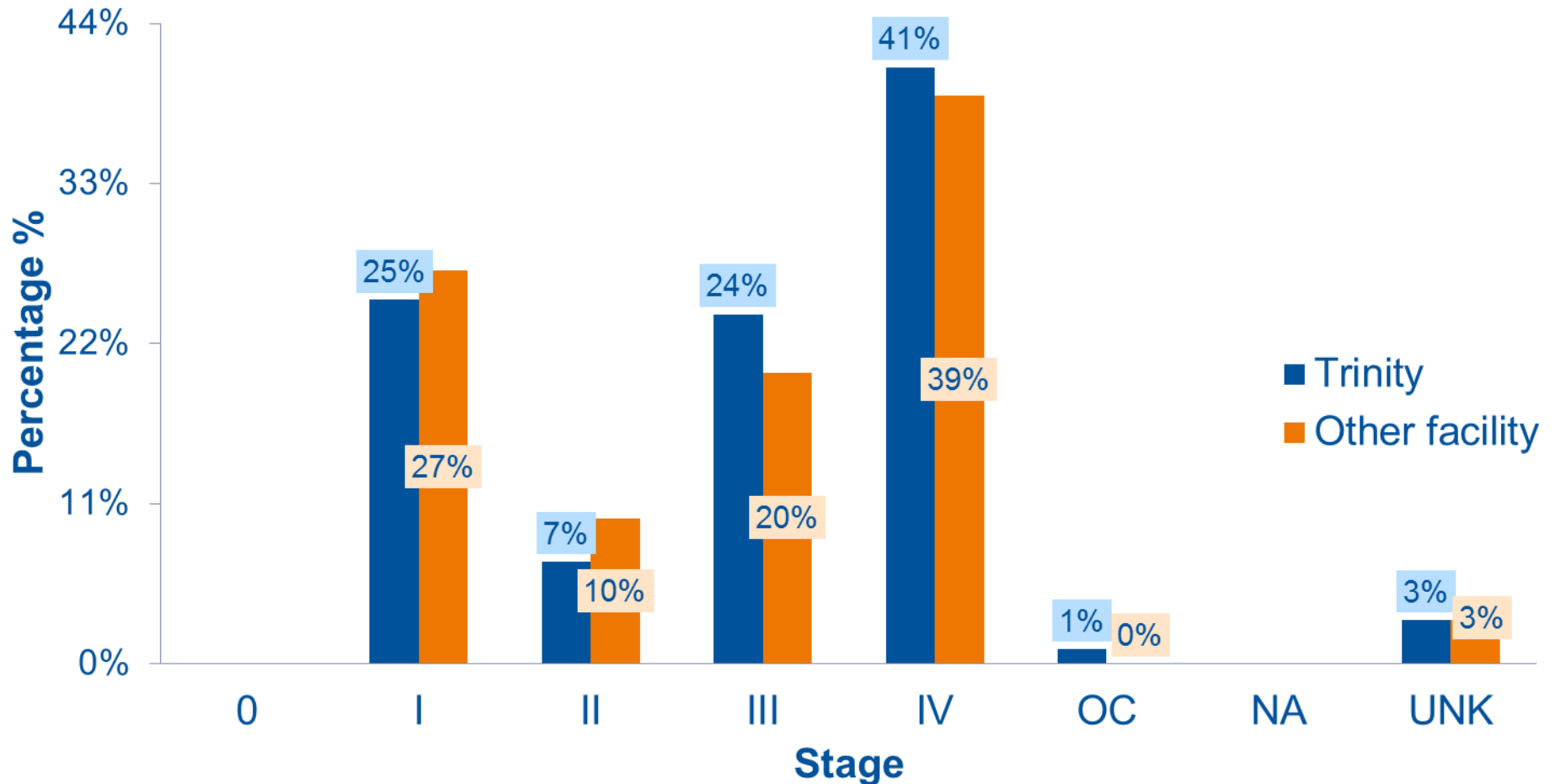
Stage of diagnosis of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*

- UnityPoint Health – Trinity versus Comprehensive Community Cancer Program Hospitals
- Data from **724** hospitals in all states
- Combination:
 - Class of case 10-14
 - Class of case 20-22

Stage of diagnosis of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*

Stage	Trinity (N)	Other (N)	Trinity (%)	Other (%)
1. 0	-	202	-	0.34%
2. I	27	15685	24.55%	26.7%
3. II	8	6135	7.27%	10.44%
4. III	26	11742	23.64%	19.99%
5. IV	45	23008	40.91%	39.16%
6. OC	1	64	0.91%	0.11%
7. NA	-	3	-	0.01%
8. UNK	3	1914	2.73%	3.26%
Total	110	58753	100%	100%

Stage of diagnosis of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*



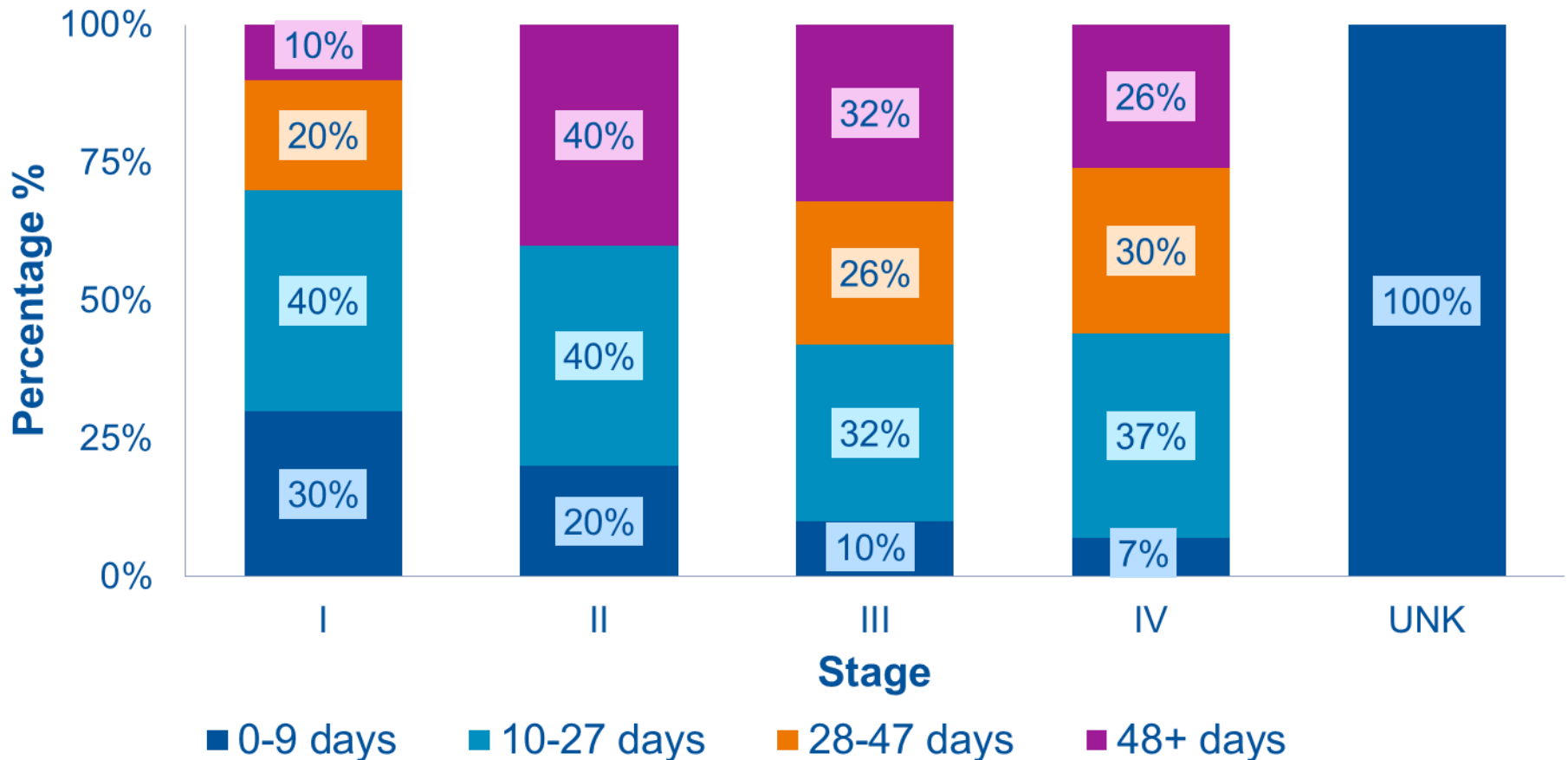
Stage by days to first Rx (quartile) of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*

- UnityPoint Health – Trinity
- Combination:
 - Class of case 10-14
 - Class of case 20-22

Stage by days to first Rx (quartile) of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*

Stage	Days to first Rx (quartile)				Totals	
	0-9 days	10-27 days	28-47 days	48+ days	N	%
1. I	30%	40%	20%	10%	20	100%
2. II	20%	40%	-	40%	5	100%
3. III	10.5%	31.5%	25.3	31.5%	19	100%
4. IV	7.4%	37%	29.6	25.9%	27	100%
5. UNK	100%	-	-	-	1	100%
Total	16.7%	36.1%	23.6%	23.6%	72	100%

Stage by days to first Rx (quartile) of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*



Stage by first course treatment of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*

Stage	Surgery Only	Radiation Only	Surgery & Chemotherapy	Radiation & Chemotherapy	Chemotherapy Only	Surgery, Radiation & Chemotherapy	Other Specified Therapy	No First Course Rx	Totals N	%
1. I	81.5%	3.7%	-	-	-	-	-	14.8%	27	100%
2. II	50%	12.5%	-	12.5%	-	12.5%	12.5%	-	8	100%
3. III	-	23.1%	3.8%	46.2%	-	11.5%	-	15.4%	26	100%
4. IV	4.4%	28.9%	2.2%	17.8%	13.3%	2.2%	-	31.1%	45	100%
5. OC	-	-	-	-	100%	-	-	-	1	100%
6. UNK	-	-	33.3%	-	33.3%	-	-	33.3%	3	100%
Total	25.5%	19.1%	2.7%	19.1%	7.3%	4.5%	0.9%	20.9%	110	100%

Stage by first course treatment of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2011*

Stage	Surgery Only	Radiation Only	Surgery & Chemotherapy	Radiation & Chemotherapy	Chemotherapy Only	Surgery, Radiation & Chemotherapy	Other Specified Therapy	No First Course Rx	Totals	
									N	%
1. 0	28.7%	12.9%	1.5%	9.4%	7.9%	7.9%	2%	29.7%	202	100%
2. I	63.2%	17.1%	4.3%	2.9%	1.2%	1.6%	3.1%	5.5%	15711	100%
3. II	30.5%	9.6%	22.4%	14.5%	2.7%	7.1%	3.5%	9.5%	6143	100%
4. III	6%	10.5%	6.5%	44.7%	8.5%	7%	1.9%	14.8%	11768	100%
5. IV	1.1%	17.3%	1.1%	26.7%	22.5%	0.8%	2.3%	28.4%	23049	100%
6. OC	12.3%	7.7%	-	4.6%	13.8%	1.5%	4.6%	55.4%	65	100%
7. NA	33.3%	33.3%	-	-	-	-	-	33.3%	3	100%
8. UNK	12.2%	10.2%	1.7%	10%	10.6%	1.4%	4.1%	49.7%	1916	100%
Total	22.2%	14.8%	5.3%	22.1%	11.5%	2.9%	2.6%	18.6%	58857	100%

Comprehensive Community Cancer Program
 Data from 727 hospitals in all states
 Combination:

- Class of case 10-14
- Class of case 20-22

First course treatment of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2000-2011*

- UnityPoint Health – Trinity versus Comprehensive Community Cancer Program Hospitals
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First course treatment of lung, bronchus non-small cell carcinoma cancer – *diagnosed in 2000-2011*

First course treatment	Trinity (N)	Other (N)	Trinity (%)	Other (%)
1. Surgery only	227	149715	20.11%	21.32%
2. Radiation only	172	103798	15.23%	14.78%
3. Surgery and chemotherapy	50	29319	4.43%	4.17%
4. Radiation and chemotherapy	291	153579	25.78%	21.87%
5. Chemotherapy only	131	84638	11.6%	12.05%
6. Surgery, radiation and chemotherapy	39	21868	3.45%	3.11%
7. Other specified therapy	50	24489	4.43%	3.49%
8. No first course Rx	169	134903	14.97%	19.21%
Total	1129	702309	100%	100%

Summary

- Incidence of stage III and stage IV lung cancer is slightly higher than comparable programs in the U.S. (60% versus 64%)
- The projected impact of the lung screening program should increase the incidence of early stage lung cancer diagnosed over time
- Currently, there is no standard for an organized system of care for lung cancer at Trinity
- Surgical involvement in the diagnosis and treatment planning is minimal

Recommendations of Cancer Review Committee

- Repeat lung cancer stage incidence study in five years and compare to this study to understand impact of lung screening program
- Implement a care coordination process to expedite care once lung cancer is diagnosed
- Increase lung cancer prospective treatment planning at cancer conferences
- Reach out to thoracic surgeons; invite their early participation and engagement in the development of an organized system of care for lung cancer
- Perform a lung cancer study in 2014 to compare time from imaging to biopsy and biopsy to first course treatment