

Supporting Information

Figure 1S. The distribution of metastatic patterns in stage IV extrathoracic metastatic non-small cell lung cancer patients.

Table S1 The Early Mortality of Surgery and Non-surgery Group

		No. of Patients (%)		P-value
		Non-surgery group	Surgery group	
Total mortality	1 month	4868/32538 (14.96)	65/1074 (6.05)	<0.001
	3 months	11616/32538 (35.70)	184/1074 (17.13)	<0.001
	6 months	17323/32538 (53.24)	317/1074 (29.52)	<0.001
Cancer-cause mortality	1 month	4554/32538 (14.00)	58/1074 (5.40)	<0.001
	3 months	10912/32538 (33.54)	169/1074 (15.74)	<0.001
	6 months	16433/32538 (50.50)	294/1074 (27.37)	<0.001

Table S2 The Percentage of Unknown Data

Characteristic	Unknown cases	Total cases	Percentage (%)
Race	51	33612	0.15
Marital	1240	33612	3.69
Grade	19456	33612	57.88

Table S3 Patient Characteristics after Multiple Imputation for Unknown Data

Characteristic	No. of Patients (%)		P-value
	No-surgery group (N = 32538)	Surgery group (N = 1074)	
Race			0.013
White	25012(76.9)	866(80.6)	
Black	4339(13.3)	125(11.6)	
Other [†]	3187(9.8)	83(7.7)	
Marital			<0.001
Single	5459(16.8)	179(16.7)	
Married	17773(54.6)	655(61.0)	
Other [‡]	9306(28.6)	240(22.3)	
Grade			0.001
I	1648(5.1)	58(5.4)	

II	9645(29.6)	379(35.3)
III	20496(63.0)	611(56.9)
IV	749(2.3)	26(2.4)

†American Indian/AK Native, Asian/Pacific Islander

‡Widowed/ Divorced/ Separated/ Unmarried or Domestic Partner

Table S4 The patient cases in multiorgan metastasis subgroups.

Metastatic pattern	No. of Patients		
	Non-surgery group	Surgery group	Total
Multiorgan metastasis with distant lymph node	3557	44	3601
Bone+Liver+brain	1068	6	1074
Bone+liver	2260	24	2284
Bone+Brain	2548	46	2594
Brain+Liver	573	7	580

