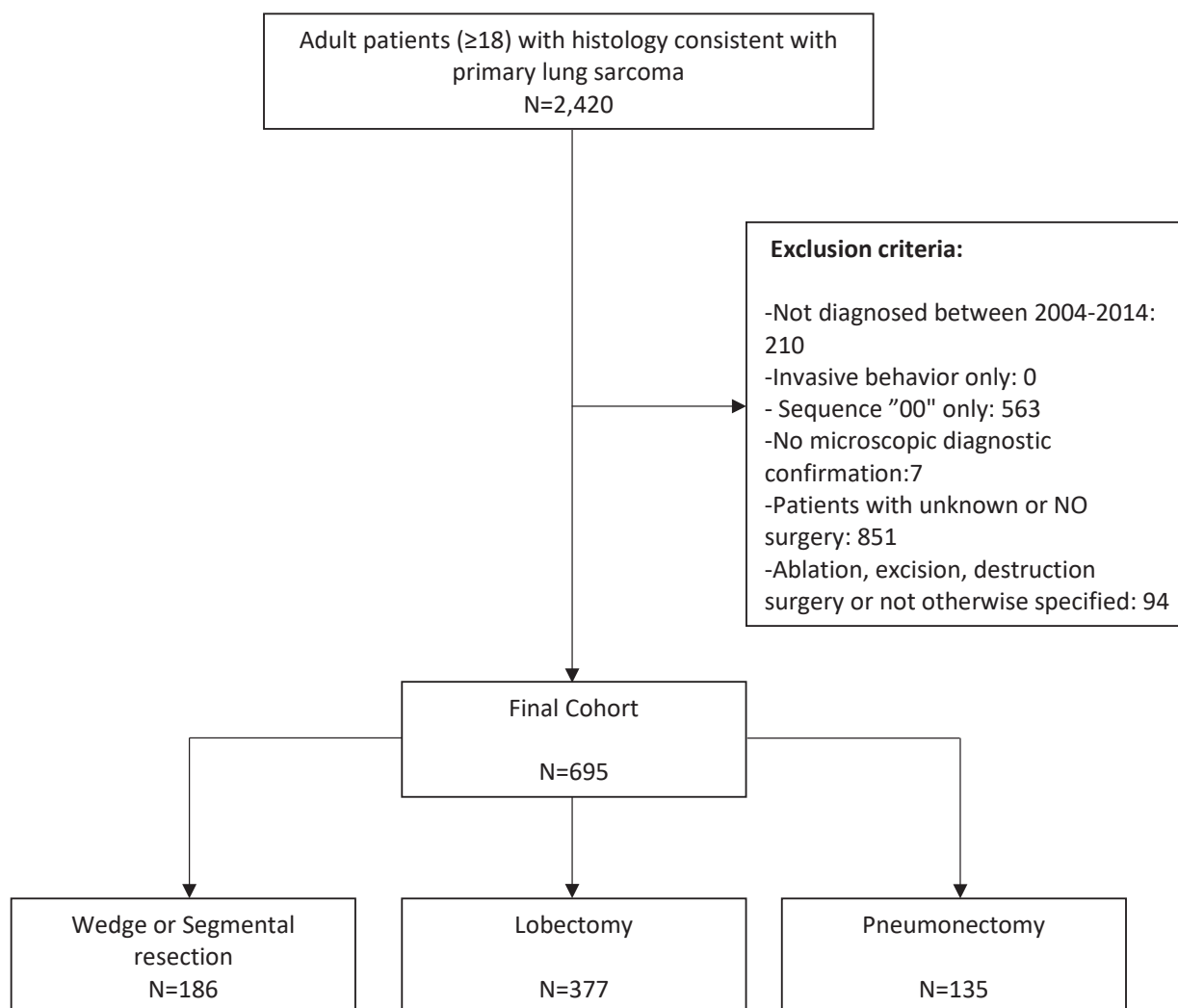


## Supplementary

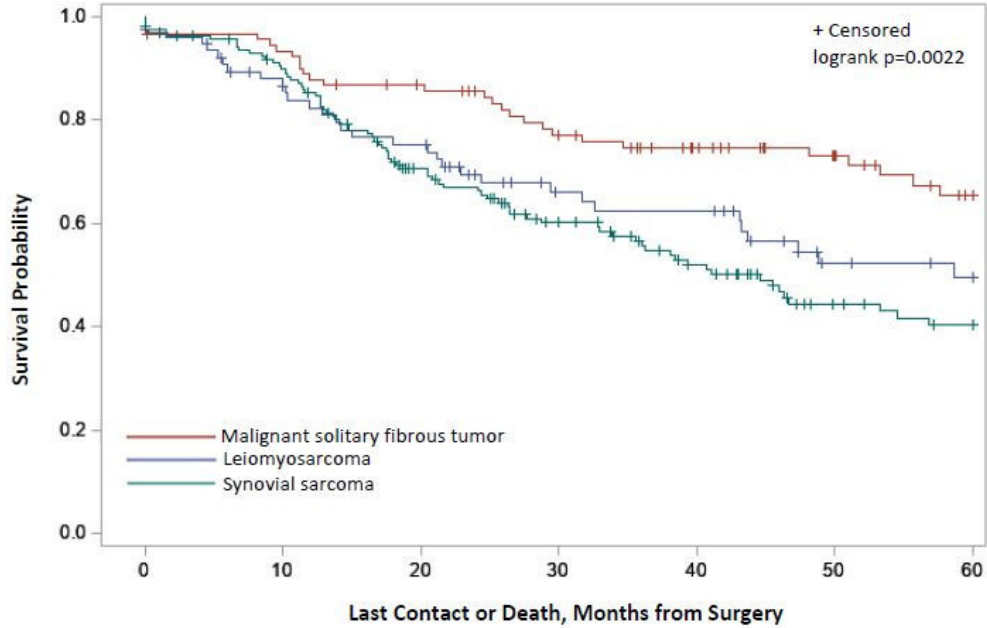
**Table S1** Histology and frequency of primary pulmonary sarcomas

Histology Type	ICD-O-3 code	Frequency (%)
Leiomyosarcoma, NOS	8890	77 (11.1)
Epithelioid leiomyosarcoma	8891	3 (0.4)
Malignant fibrous histiocytoma	8830	19 (2.7)
Liposarcoma, NOS	8850	1 (0.1)
Myxoid liposarcoma	8852	2 (0.3)
Pleomorphic liposarcoma	8854	3 (0.4)
Mixed type liposarcoma	8855	1 (0.1)
Dedifferentiated liposarcoma	8858	1 (0.1)
Rhabdomyosarcoma	8900	4 (0.6)
Pleomorphic rhabdomyosarcoma	8901	4 (0.6)
Embryonal rhabdomyosarcoma	8910	1 (0.1)
Alveolar rhabdomyosarcoma	8920	1 (0.1)
Haemangiosarcoma	9120	52 (7.5)
Malignant nerve sheath tumor	9540	9 (1.3)
Fibrosarcoma, NOS	8810	9 (1.3)
Fibromyxosarcoma	8811	3 (0.4)
Malignant solitary fibrous tumor	8815	91 (13.1)
Sarcoma, NOS	8800	78 (11.2)
Spindle cell sarcoma	8801	55 (7.9)
Giant cell sarcoma	8802	32 (4.6)
Small cell sarcoma	8803	1 (0.1)
Epithelioid sarcoma	8804	8 (1.2)
Undifferentiated sarcoma	8805	9 (1.3)
Ewing sarcoma	9260	25 (0.7)
Osteosarcoma	9180	2 (0.3)
Chondrosarcoma	9220	5 (0.7)
Myxoid chondrosarcoma	9231	7 (1.0)
Mesenchymal chondrosarcoma	9240	1 (0.1)
Synovial sarcoma, NOS	9040	67 (9.6)
Synovial sarcoma, spindle cell	9041	85 (12.2)
Synovial sarcoma, biphasic	9043	9 (1.3)
Myxosarcoma	8840	2 (0.3)
Malignant hemangiopericytoma	9150	5 (0.7)
Desmoplastic small round cell tumor	8806	2 (0.3)
Malignant hemangioendothelioma	9130	6 (0.9)

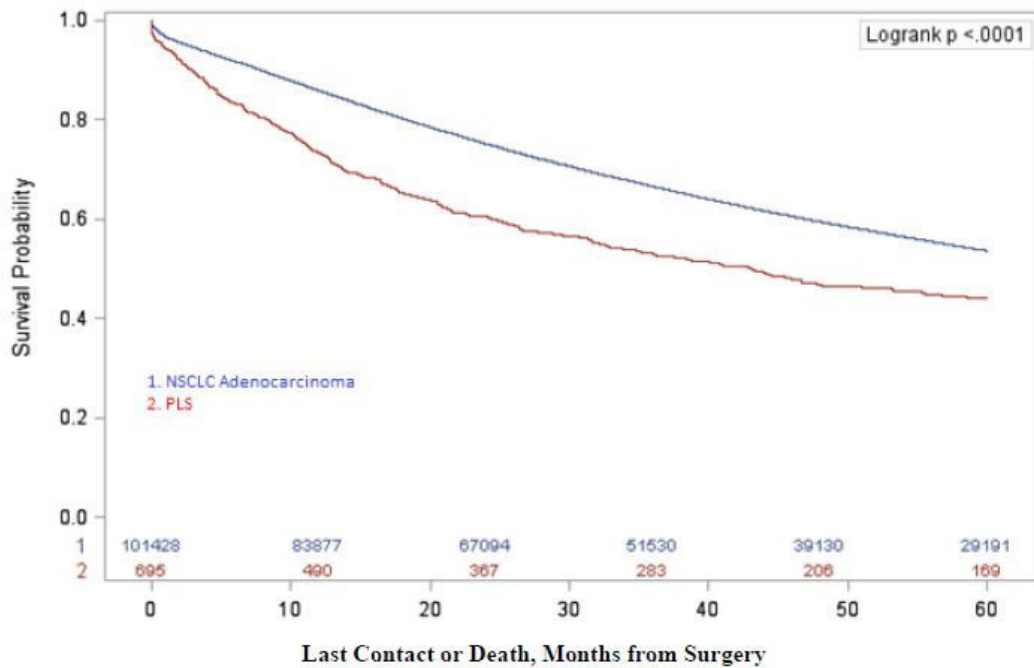
ICD-O-3, international Classification of Diseases for Oncology 3rd Edition; NOS, not otherwise specified.



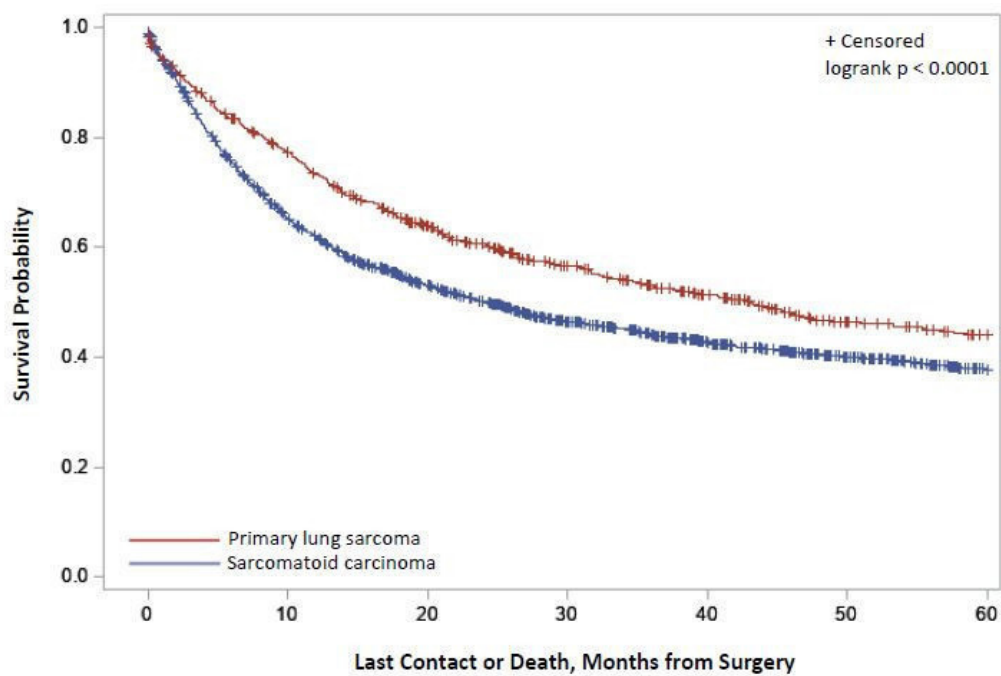
**Figure S1** Cohort selection criteria.



**Figure S2** Kaplan-Meier five-year overall survival of the three most common primary lung sarcomas: Malignant solitary fibrous tumors, leiomyosarcomas, and synovial sarcomas.



**Figure S3** Kaplan-Meier five-year overall survival: Non-small cell lung cancer (NSCLC) adenocarcinoma vs. pulmonary lung sarcoma (PLS).



**Figure S4** Kaplan-Meier five-year overall survival of the primary lung sarcoma versus sarcomatoid carcinoma.