

### Supplementary table

**Table S1** The clinical characteristics of patients in different treatment groups

	Localized treatment	Localized treatment + systemic medication	P-value	Localized treatment + TKIs	Localized treatment + chemotherapy	P-value	Localized treatment + pemetrexed	Localized treatment + other chemotherapy	P-value
Total	n=24	n=186		n=75	n=111		n=21	n=90	
Median age	57.5	56		57	57		60	56	
Age, years			0.514			0.720			0.279
<65	18	154		63	91		15	76	
≥65	6	32		12	20		6	14	
Sex			0.411			0.026			0.469
Male	18	124		43	81		14	67	
Female	6	62		32	30		7	23	
Smoking status			0.230			0.003			0.123
Never	7	78		41	37		10	27	
Former or current	17	108		34	74		11	63	
KPS			0.227			0.298			0.538
≥70	14	131		56	75		13	62	
<70	10	55		19	36		8	28	
Histology			0.035			0.113			0.029
Adenocarcinoma	12	125		55	70		20	50	
Squamous carcinoma	7	32		8	24		0	24	
Others	5	29		12	17		1	16	
Number of brain metastases			0.791			0.637			0.656
1	10	53		16	37		6	31	
2-3	4	70		36	34		7	27	
>3	10	63		23	40		8	32	
Extracranial metastases			0.153			0.407			0.438
No	12	69		26	43		7	36	
Vesical organ	8	65		25	40		7	33	
Others	4	52		24	28		7	21	
Brain metastases distribution			0.047			0.065			0.068
Synchronous	8	102		35	67		9	58	
Heterochronous	16	84		40	44		12	32	
Local treatments			0.779			0.006			0.929
WBRT	20	159		71	88		17	71	
WBRT + surgery/SRS	4	27		4	23		4	19	
RTOG RPA class			0.085			0.983			0.962
Class I	6	41		14	27		4	23	
Class II	9	89		42	48		9	39	
Class III	9	56		19	36		8	28	

(Continued)

**Table S1** (Continued)

	Localized treatment	Localized treatment + systemic medication	P-value	Localized treatment + TKIs	Localized treatment + chemotherapy	P-value	Localized treatment + pemetrexed	Localized treatment + other chemotherapy	P-value
RTOG GPA grade			0.494			0.249			0.443
0-1	8	36		11	25		4	21	
1.5-2.5	11	121		54	67		14	53	
3	3	19		7	12		2	10	
3.5-4	2	10		3	7		1	6	

**Abbreviations:** GPA, graded prognostic assessment; KPS, Karnofsky Performance Scale; SRS, stereotactic radiosurgery; WBR T, whole brain radiation therapy; RPA, recursive partitioning analysis; RTOG, Radiation Therapy Oncology Group; TKIs, tyrosine kinase inhibitors.

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