

Supplementary Table S1:

Data complementary to flowchart outlining of the follow-up MRI results of 155 LRPNs in 67 patients in Figure 1 of main text. The unit of each diameter is in mm. Ratio indicates the value of product of two long axes in MRI after radiation therapy divided by that before radiation therapy. Negative node was defined as the ration ranged from 1.25 to 0.5 without progress after follow up periods at least for 6 months. LRPNs = lateral retropharyngeal nodes; RTed = irradiated; MAAD = maximal axial diameter; MACD = maximal coronal diameter; MIAD = minimal axial diameter.

Nodes#	MACD	MAAD	MIAD	RTed MACD	RTed MAAD	RTed MIAD	Ratio	Real answer
1	16	15	8.5	10.1	6.2	2.6	0.261	1
2	9.3	10.3	6.5	5.9	1.9	1.4	0.117	1
3	6.4	3.6	1.4	4.3	3.2	1.6	0.597	0
4	14.9	5.3	2.2	11.8	6.6	3.1	0.986	0
5	16.1	5	1.8	10.6	8.3	4.1	1.093	0
6	21.8	6.7	4	21.4	6.8	3.1	0.996	0
7	41.7	30.1	22.1	25.1	11.9	11.8	0.238	1
8	9.9	6.2	2.8	8.6	5.5	2.2	0.771	0
9	14.1	6	4.5	9.1	5.4	4.4	0.581	0
10	16.2	10.6	5.7	9.3	3.6	2.8	0.195	1
11	13.7	5.8	3.1	12.4	4.5	4	0.702	0
12	15.1	7	5.5	12.7	7.5	5.2	0.901	0
13	16.7	6.4	2.6	17.7	6.6	2.3	1.093	0
14	9	5.2	2.2	6.4	4.6	3.6	0.629	0
15	14.4	7	3.3	13.5	6.7	3	0.897	0
16	5.3	4.7	2.7	5.6	3	2.2	0.674	0
17	9.6	5	3.4	6	4.2	2.2	0.525	0
18	32.2	15.9	10	12.5	5	2.6	0.122	1
19	12.9	13.6	6.9	4.4	5.5	2.2	0.138	1
20	16.1	7	3.6	10	5.9	1.6	0.524	0
21	12.6	6.7	2.9	10.7	7	3	0.887	0
22	11.8	5.8	3.3	11.9	5.4	3.2	0.939	0
23	16.6	9.9	6.4	5.5	5	3	0.167	1
24	20.8	13.9	10.4	14.1	5.1	1.9	0.249	1
25	12.4	6.9	5.2	10.4	6.3	2.7	0.766	0
26	17.9	8.6	6.6	14.1	4.9	1.2	0.449	1
27	21.5	11.4	6.4	18.2	6.5	1.9	0.483	1
28	14.1	8	3.8	13.4	4.6	3.1	0.546	0
29	22.5	12	11.8	13.4	4.5	1.8	0.223	1
30	8.2	7.6	7.1	6.4	4.3	1.6	0.442	1
31	23	7.4	5.1	23	7.8	4.3	1.054	0
32	18.5	6	3.4	18.5	7	4.5	1.167	0

33	17.5	11.9	8	13.3	7.6	3.8	0.485	1
34	7.6	3.7	2.1	7.5	4	2.4	1.067	0
35	11.3	4.3	2.3	7.4	4.5	1.7	0.685	0
36	18.4	10.5	4.2	18.6	6.7	4.3	0.645	0
37	17.2	8	5.6	15.8	8	5.2	0.919	0
38	13.2	8.8	5.3	13.6	6.8	4	0.796	0
39	15	9	8.8	10.6	4	2.53	0.314	1
40	29.6	14	11.9	13.1	7.1	2.8	0.224	1
41	20.5	10.4	3.6	18.4	7.5	3.6	0.647	0
42	14.3	5.7	3.1	8.8	6.3	2.5	0.680	0
43	25.4	12.5	10	18.2	6.5	3.9	0.373	1
44	21.8	5.1	3.9	21.1	6.1	4.6	1.158	0
45	10.8	10.8	6.5	7	3.6	2.3	0.216	1
46	14.5	7.6	5.3	17.5	6.6	4.6	1.048	0
47	18.1	12.8	11.5	10.4	5.7	5.2	0.256	1
48	20.8	4.7	4.4	18.3	3.7	1.8	0.693	0
49	34.1	20.8	17.5	16.7	4.9	2.7	0.115	1
50	19.5	10.2	7.1	17.4	7.8	5.9	0.682	0
51	7.4	6	5.1	4.6	3.8	2.4	0.394	1
52	18	18.3	16.4	6.4	3.4	2.4	0.066	1
53	11	9.7	6.7	9	5.3	1.9	0.447	1
54	11.3	4.9	3.4	10	4.9	2.8	0.885	0
55	8.2	7.5	5.2	6.9	4.2	3.9	0.471	1
56	22.3	14.8	13.1	18.4	8.9	7.6	0.496	1
57	10.5	5.4	3.2	5.9	6.6	2.2	0.687	0
58	19.8	7.6	5.4	16.2	6.5	4.6	0.700	0
59	36.1	15.9	14.5	15	4.1	3.9	0.107	1
60	17	12.5	11.9	10.4	6	3.7	0.294	1
61	9.6	6.5	4.1	8.1	4.3	2	0.558	0
62	23	7.2	5.3	21.7	7.1	4.1	0.930	0
63	38.1	19.1	12.1	19.3	10.1	6.1	0.268	1
64	18.2	8.9	6.5	8.7	5.4	3	0.290	1
65	20.6	9.2	7.5	13.9	5.5	3.7	0.403	1
66	8.3	4	1.9	10.8	2.8	2.4	0.911	0
67	17.8	16.6	9.7	5.7	5.4	3.8	0.104	1
68	8.9	5.5	2.8	9.7	5.5	4.1	1.090	0
69	22.5	11.5	10.8	7.1	6.3	5.7	0.173	1
70	15.6	6.8	4.4	12	5.4	1.8	0.611	0
71	13.5	5.6	4.3	7.9	6.3	3.2	0.658	0
72	9.7	12.4	6.4	7.7	7.8	6	0.499	1

73	6.9	8.9	6.6	7.2	6.1	5.4	0.715	0
74	16.5	12.7	9.3	8.3	5.6	4	0.222	1
75	12.4	9.9	6.5	9.5	6.1	2.6	0.472	1
76	13.5	7.4	5.5	12.6	5.4	1.7	0.681	0
77	36.1	22	18.1	18.9	6.7	5.2	0.159	1
78	11.5	4.4	2.2	9.4	4.6	2.6	0.855	0
79	10.6	6.3	2.2	9.6	7	2.5	1.006	0
80	12.3	4	2.1	12.1	3.5	2	0.861	0
81	20.3	5.5	2.1	19.2	4.9	1.8	0.843	0
82	12.1	4.3	1.6	11.7	4.3	2.8	0.967	0
83	8.7	5.5	3	8.2	5.8	1.1	0.994	0
84	14.6	4.5	3	14.4	4.8	3	1.052	0
85	8.6	4.9	1.5	8.7	4.5	1.8	0.929	0
86	15.8	7.1	3.5	11.9	5.9	3.1	0.626	0
87	32.4	15.4	10.2	13.4	6.4	2.5	0.172	1
88	20.8	10.7	9.1	14.8	6.2	3.4	0.412	1
89	18	16.7	13	8.4	3.5	2.3	0.098	1
90	20.6	10	5.2	15.9	6.7	3.3	0.517	0
91	13.4	10.8	8.2	8.9	5.3	5	0.326	1
92	18	4.7	2.5	11.9	4.7	2.7	0.661	0
93	13.4	12.5	10.1	7.7	5.2	3.6	0.239	1
94	5.6	5	3.3	6.9	5	3	1.232	0
95	15	7.1	2.5	15.2	4.7	2.7	0.671	0
96	12.4	4.6	1.8	9.7	5	2.4	0.850	0
97	27	7.8	4.2	23	7.9	4.2	0.863	0
98	22.5	8.3	4	22	7.5	3.5	0.884	0
99	26.5	10.9	9.7	18.3	5.8	3.9	0.367	1
100	13.4	7.9	5.7	11.1	4.4	2.2	0.461	1
101	29.3	13.5	9.2	15.8	7	4.1	0.280	1
102	11.7	8.2	5.2	12.4	6.1	2.6	0.788	0
103	22.5	6.4	5.6	22.5	4.9	3.8	0.766	0
104	19.3	9.5	5.5	14.5	7.7	2.1	0.609	0
105	17.6	7.3	5.8	11.8	3.7	2.6	0.340	1
106	25.1	7.5	7.1	11.4	5.1	3.9	0.309	1
107	23.3	11.5	10.5	11.8	4.3	2.9	0.189	1
108	13.8	6.5	3.1	13.8	5.6	3.1	0.862	0
109	11.4	5.6	3.9	8.4	4.8	3.1	0.632	0
110	23.2	8.1	5	17.9	9.9	4.9	0.943	0
111	10.5	5.2	3.7	7.7	5.2	2.4	0.733	0
112	23.5	7.8	6.5	17.2	3.4	1.9	0.319	1

113	19.2	15.7	10.1	20.6	7.1	4.4	0.485	1
114	9.5	6.1	3.9	9.1	3.9	2.8	0.612	0
115	16.4	7	5	11.3	7.6	2.6	0.748	0
116	23.8	13.1	9.7	11	5.6	4.6	0.198	1
117	20	7.1	4.6	25.8	4.9	3.5	0.890	0
118	12.7	8.8	5.4	14.5	7.2	39	0.934	0
119	16.2	12.7	9	3.9	5.8	3	0.110	1
120	7.5	4.7	3.2	7.5	2.5	2	0.532	0
121	15.2	6	4.7	12.3	4.8	2.7	0.647	0
122	13.8	8	6.7	15.6	7.2	5.4	1.017	0
123	14.8	7.2	3.5	10.6	5.7	3.4	0.567	0
124	41	16	15.3	17.2	5.2	3.7	0.136	1
125	47.1	21.2	20.4	14.2	7.7	4.8	0.110	1
126	11.7	12.7	9.9	5.8	5.7	4.2	0.222	1
127	13.7	9.8	7.6	9.5	4.9	5.7	0.347	1
128	30.9	15.7	8.3	24.3	11.3	6.4	0.566	0
129	14.2	8.3	6.2	13.9	5.3	3.4	0.625	0
130	20.2	13.4	8.2	14.3	6.6	2.6	0.349	1
131	29.1	14.4	13.5	18.3	9.1	3.7	0.397	1
132	35.2	14.3	8.8	9.9	6.1	2.2	0.120	1
133	11.6	10.1	6	8	9.6	5.3	0.656	0
134	26.7	7.4	4.3	22.2	8.1	6.4	0.910	0
135	23.1	9.8	4.8	20.5	10.2	4.6	0.924	0
136	11.6	10	6.9	9.2	4.9	4	0.389	1
137	16.3	7.7	4	11.5	8.7	4.3	0.797	0
138	13.3	9.8	8.9	9.2	3.2	2.6	0.226	1
139	7.6	7.3	4.7	4.8	3.6	2.4	0.311	1
140	10.5	8.1	7	4.4	4	2.2	0.207	1
141	8.6	6.7	3.4	7.4	4.5	3.6	0.578	0
142	6.8	9	6.5	4.3	4.8	2.6	0.337	1
143	20	7.5	3.5	22.8	7.1	4.1	1.079	0
144	18.6	6.2	4.1	19.5	6.2	3.3	1.048	0
145	8.4	3.8	3.3	7.4	4.4	4.3	1.020	0
146	10.1	10.4	8.1	7.4	5.7	3.8	0.402	1
147	7.2	6.2	5.6	4.6	3.9	2.7	0.402	1
148	28.9	17.9	12.1	15.5	4.9	3.3	0.147	1
149	32	16.1	14.7	13.8	6.7	4.7	0.179	1
150	32	19.8	17.3	15.8	6.9	3.3	0.172	1
151	27.9	16.8	12.7	13.8	6.2	3.4	0.183	1
152	8.8	6.3	3.5	7	3.5	3.3	0.442	1

153	13.3	7.1	6.4	11.9	2.7	2.7	0.340	1
154	26.4	9.7	7.2	14.1	8.4	4.7	0.463	1
155	13.1	12	7.1	11.2	6.9	4.3	0.492	1

							Positive	72
							Negative	83
