

Supplementary material for Cella L, et al. Pulmonary damage in Hodgkin's lymphoma patients treated with sequential chemo-radiotherapy: Predictors of radiation-induced lung injury. Acta Oncol 2014; 53:613–9.

Supplementary Table I. Descriptive statistics of clinical parameters with comparison between patients who developed symptomatic radiation-induced lung injury (RILI) or CT changes and who did not.

	Symptomatic RILI				p	CT changes				p
	No (n = 65)		Yes (n = 4)			No (n = 60)		Yes (n = 9)		
	median	range	median	range		median	range	median	range	
Age (y)	26	14–55	40	23–46	0.883	26	14–55	29	23–46	0.137
Left lung volume (cm <sup>3</sup> )	1247	664–2792	1165	825–1591	0.751	1240	664–2792	1272	825–2017	0.803
Right lung volume (cm <sup>3</sup> )	1454	732–2989	1546	1316–1969	0.462	1447	732–2989	1612	1042–1969	0.396
	n	%	n	%		n	%	n	%	
<i>Gender</i>										
Female	37	57	2	50	1	36	60	3	33	0.132
Male	28	43	2	50		24	40	6	67	
<i>Histology</i>										
Nodular sclerosis	45	69	4	100	0.439	42	70	7	78	0.825
Mixed cellularity	17	26	0	0		15	25	2	22	
Lymphocyte-rich-classical	2	3	0	0		2	3	0	0	
<i>Stage</i>										
I–II	50	77	4	100	0.570	47	78	7	78	0.970
III–IV	15	23	0	0		13	22	2	22	
<i>Chemotherapy regimen</i>										
ABVD	13	20	2	50	0.277	11	18	4	44	0.770
VEBEP	52	80	2	50		49	82	5	56	
<i>Chemotherapy cycles</i>										
4	11	17	0	0	0.158	11	18	0	0	0.161
6	54	83	4	100		49	82	9	100	
<i>RT dose delivered (Gy)</i>										
28.5–30.0	29	45	0	0	0.083	28	47	1	11	0.179
30.1–32.0	27	41	2	50		24	40	5	56	
32.1–36.0	7	11	1	25		6	10	2	22	
36.1–46.0	2	3	1	25		2	3	1	11	
<i>Comorbidity and lifestyle factors</i>										
Yes	14	21	2	50	0.228	14	23	2	22	1
No	51	79	2	50		46	77	7	78	
<i>Smoke</i>										
Yes	9	14	1	25	0.474	9	15	1	11	1
No	56	86	3	75		51	85	8	89	
<i>Cardiac comorbidities</i>										
Yes	4	6	1	25	0.265	4	7	1	11	0.514
No	61	94	3	75		56	93	8	89	
<i>Elevated CRP</i>										
Yes	46	71	2	50	0.580	41	68	7	78	0.712
No	19	29	2	50		19	32	2	22	
<i>Elevated LDH</i>										
Yes	19	29	0	0	0.313	16	27	3	33	0.771
No	42	65	4	100		40	67	6	67	

Supplementary Table II. Descriptive statistics of dosimetric parameters with comparison between patients who developed symptomatic radiation-induced lung injury (RILI) or CT changes and who did not.

	Symptomatic RILI					CT changes				
	No (n = 65)		Yes (n = 4)		p	No (n = 60)		Yes (n = 9)		p
	median	range	median	range		median	range	median	range	
<b>Total lung</b>										
D2% (Gy)	<b>32.0</b>	<b>0.0–41.3</b>	<b>33.9</b>	<b>33.1–37.8</b>	<b>0.038</b>	<b>32.0</b>	<b>0.0–41.3</b>	<b>33.9</b>	<b>30.0–37.8</b>	<b>0.029</b>
D50% (Gy)	2.1	0.0–23.9	3.9	1.5–5.3	0.926	2.1	0.0–23.9	5.1	1.5–13.5	0.089
V05 (%)	40.6	0.0–70.0	42.5	26.1–50.2	0.939	40.1	0.0–70.0	48.6	26.1–56.4	0.289
V10 (%)	36.1	0.0–65.2	38.8	23.5–46.9	0.837	35.6	0.0–65.2	46.0	23.5–52.8	0.113
V15 (%)	33.1	0.0–60.8	35.5	21.4–44.1	0.797	32.3	0.0–60.8	42.3	21.4–44.4	0.187
V20 (%)	29.9	0.0–57.7	33.1	18.6–41.5	0.709	29.8	0.0–57.7	39.5	18.6–41.5	0.151
V25 (%)	24.6	0.0–41.4	30.9	17.1–39.4	0.280	<b>24.3</b>	<b>0.0–41.4</b>	<b>34.3</b>	<b>17.1–39.4</b>	<b>0.017</b>
V30 (%)	17.4	0.0–35.0	27.3	15.2–37.1	0.078	<b>16.1</b>	<b>0.0–34.7</b>	<b>25.6</b>	<b>15.2–37.1</b>	<b>0.005</b>
<b>Right lung</b>										
D2% (Gy)	32.0	0.0–39.4	33.1	28.5–37.5	0.532	31.9	0.0–39.4	32.6	27.8–37.5	0.152
D50% (Gy)	2.8	0.0–21.5	2.3	1.1–5.3	0.757	2.3	0.0–21.4	4.2	1.1–9.9	0.242
V05 (%)	43.9	0.0–66.3	39.0	9.8–50.2	0.593	40.7	0.0–66.3	46.7	9.8–54.4	0.306
V10 (%)	38.7	0.0–60.9	35.0	6.7–47.7	0.715	36.7	0.0–60.9	40.1	6.7–49.9	0.257
V15 (%)	34.1	0.0–55.2	32.1	4.7–43.5	0.734	32.7	0.0–55.2	34.4	4.7–46.2	0.302
V20 (%)	30.5	0.0–51.1	29.6	3.6–41.6	0.876	30.3	0.0–51.1	30.2	3.6–43.4	0.289
V25 (%)	25.1	0.0–44.8	27.4	2.7–39.7	0.638	23.2	0.0–44.8	28.5	2.7–40.8	0.092
V30 (%)	16.3	0.0–38.2	24.7	1.4–36.7	0.196	15.8	0.0–38.2	22.7	1.0–36.7	0.052
<b>Left lung</b>										
D2% (Gy)	<b>31.6</b>	<b>0.0–41.5</b>	<b>34.3</b>	<b>32.8–38.1</b>	<b>0.030</b>	31.6	0.0–41.5	33.3	29.8–38.1	0.068
D50% (Gy)	2.2	0.0–31.5	16.4	3.2–30.5	0.066	<b>2.1</b>	<b>0.0–25.1</b>	<b>8.9</b>	<b>1.8–31.5</b>	<b>0.018</b>
V05 (%)	39.0	0.0–82.8	51.9	32.0–65.6	0.197	<b>38.5</b>	<b>0.0–82.8</b>	<b>51.5</b>	<b>28.2–74.1</b>	<b>0.048</b>
V10 (%)	35.2	0.0–79.9	49.5	27.4–62.2	0.171	<b>33.9</b>	<b>0.0–79.9</b>	<b>46.2</b>	<b>23.1–69.3</b>	<b>0.036</b>
V15 (%)	31.8	0.0–76.9	47.1	24.0–59.0	0.115	<b>30.5</b>	<b>0.0–76.9</b>	<b>42.4</b>	<b>17.9–67.3</b>	<b>0.040</b>
V20 (%)	29.0	0.0–74.0	43.3	21.4–55.7	0.124	<b>28.6</b>	<b>0.0–74.0</b>	<b>39.8</b>	<b>15–61.8</b>	<b>0.040</b>
V25 (%)	<b>21.9</b>	<b>0.0–57.5</b>	<b>41.0</b>	<b>19.0–53.2</b>	<b>0.046</b>	<b>21.0</b>	<b>0.0–50.1</b>	<b>36.2</b>	<b>12.4–57.5</b>	<b>0.007</b>
V30 (%)	<b>13.8</b>	<b>0.0–52.7</b>	<b>36.9</b>	<b>16.2–50.3</b>	<b>0.015</b>	<b>11.5</b>	<b>0.0–46.8</b>	<b>30.2</b>	<b>8.6–52.7</b>	<b>0.004</b>

Significant parameters are in bold.