

## Supplementary Material

*Article*

### Individualising follow-up strategies in high-grade soft tissue sarcoma with flexible parametric competing risk regression models.

**Table S1.** Conditional Risks for Local Recurrence – Threshold 4%.

Interval (months)	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	30-33	33-36	36-42	42-48	48-54	54-60
<b>Clinical Example I</b> UPS, G3, 12cm, male, R0, neoadj. RTX, no adj. RTX, no adj. CTX	0.3 1.1	0.8 1.5	0.8 0.9	0.7 0.6	0.5 0.5	0.3 0.5	0.3 0.4	0.3 0.2	0.2 0.2	0.2 0.2	0.2 0.3	0.2 0.3	0.2 0.3	0.2 0.2	0.2 0.4	
<b>Clinical Example II</b> Myxofibrosarcoma, G3, 8cm, female, R1/2, neoadj. RTX, no adj. RTX, no adj. CTX	0.7 2.4	1.7 3.1	1.7 2.0	1.4 1.4	1.1 1.1	0.9 0.9	0.7 1.4	0.6 1.0	0.5 1.0	0.5 1.0	0.4 1.0	0.4 1.2	0.8 1.2	0.7 1.0	0.5 1.0	0.5 0.4
<b>Clinical Example III</b> Synovial sarcoma, G3, 6cm, female, R0, no neoadj. RTX, no adj. RTX, no adj. CTX	0.7 2.2	1.5 2.8	1.5 1.8	1.2 1.2	1.0 1.0	0.8 1.0	0.7 1.0	1.2 0.9	0.5 0.9	0.4 0.7	0.4 1.1	0.3 0.8	0.6 1.1	0.5 0.8	0.5 0.8	0.4 0.4
<b>Clinical Example IV</b> Leiomyosarcoma, G2, 4cm, male, R0, no neoadj. RTX, no adj. RTX, no adj. CTX	0.1 2.8	2.0 3.9	2.1 2.6	1.8 1.9	1.5 1.4	1.2 1.2	1.0 1.0	0.9 0.9	0.8 1.4	0.7 1.2	0.6 1.2	0.6 1.8	1.0 1.8	0.8 1.4	0.7 0.7	0.7 0.7
<b>Clinical Example V</b>	0.2 0.7	0.5 1.0	0.5 0.4	0.4 0.7	0.4 0.5	0.3 0.2	0.2 0.2	0.2 0.4	0.2 0.2	0.2 0.3	0.1 0.3	0.2 0.4	0.2 0.4	0.2 0.3	0.2 0.2	0.2 0.2

Myxoid liposarcoma, G2, 3cm,  
female, R0, no neoadj. RTX, no adj.  
RTX, no adj. CTX

<b>Clinical Example VI</b>	1.5	3.5	3.5	2.9	2.3	1.8	1.5	1.3	1.1	1.0	0.9	0.8	1.3	1.1	1.0	0.9
Dediff. Liposarcoma, G3, 9cm, male, R1/2, no neoadj. RTX, no adj. RTX, no adj. CTX		4.9		6.3		4.1		2.8		2.1		1.6		2.5		1.8
<b>Clinical Example VII</b>	0.5	1.2	1.3	1.1	0.9	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.6	0.5	0.4	0.4
Leiomyosarcoma, G2, 6cm, female, R1/2, neoadj. RTX, no adj. RTX, no adj. CTX		1.7		2.4		1.6		1.1		0.9		0.7		1.1		0.9
<b>Clinical Example VIII</b>	0.9	2.1	2.2	1.8	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.8	0.7	0.6	0.5
Synovial sarcoma, G3, 6cm, male, R0, no neoadj. RTX, no adj. RTX, no adj. CTX		3.1		3.9		2.5		1.7		1.3		1.0		1.5		1.1
<b>Clinical Example IX</b>	4.0	9.4	9.9	8.4	6.8	5.7	4.8	4.1	3.6	3.3	2.9	2.7	4.6	4.0	3.5	3.2
Myxofibrosarcoma, G2, 10cm, male, R1/2, no neoadj. RTX, no adj. RTX, no adj. CTX		12.9		17.4		12.1		8.7		6.8		5.5		8.4		6.6
<b>Clinical Example X</b>	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.04	0.04	0.04	0.1	0.1	0.04	0.04
Myxoid liposarcoma, G3, 12cm, female, R0, neoadjuvant RTX, no adj. RTX, no adj. CTX		0.2		0.3		0.2		0.1		0.1		0.1		0.1		0.1

**Legend:** Conditional risks for local recurrence according to the currently applied follow-up program for ten different clinical examples using the test cohort. Shaded areas highlight follow-up intervals exceeding the threshold of 4% for local recurrence. The first row for each example depicts conditional risks at every 3 months, whilst in the second row, the predicted conditional risks in 6-month-intervals are shown.

**Table S2.** Conditional Risks for Distant Metastasis – Threshold 2%.

Interval (months)	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	24-27	27-30	30-33	33-36	36-42	42-48	48-54	54-60
<b>Clinical Example I</b> UPS, G3, 12cm, male, R0, neoadj. RTX	5.8 17.8	11.2	7.4	7.5	7.2	5.9	4.6	3.6	2.9	2.4	2.0	1.7	2.6	1.9	1.5	1.1
<b>Clinical Example II</b> Myxofibrosarcoma, G3, 8cm, female, R1/2, neoadj. RTX	3.2 9.3	6.3	4.1	4.3	4.0	3.3	2.5	2.0	1.6	1.3	1.1	1.9	1.4	1.0	0.8	0.6
<b>Clinical Example III</b> Synovial sarcoma, G3, 6cm, female, R0, no neoadj. RTX	2.9 8.4	5.7	3.7	3.7	3.6	2.9	2.3	1.8	1.4	1.2	1.0	0.8	1.3	0.9	0.7	0.6
<b>Clinical Example IV</b> Leiomyosarcoma, G2, 4cm, male, R0, no neoadj. RTX	1.4 5.1	3.7	3.1	3.4	3.5	3.2	2.7	2.4	2.1	1.9	1.7	1.5	2.7	2.3	2.0	1.8
<b>Clinical Example V</b> Myxoid liposarcoma, G2, 3cm, female, R0, no neoadj. RTX	0.4 1.3	0.9	0.8	0.9	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.7	0.6	0.5	0.5
<b>Clinical Example VI</b> Dediff. Liposarcoma, G3, 9cm, male, R1/2, no neoadj. RTX	4.0 11.5	7.8	5.1	5.2	5.0	4.1	3.1	2.5	2.0	1.6	1.4	2.5	1.8	1.3	1.0	0.8
<b>Clinical Example VII</b> Leiomyosarcoma, G2, 6cm, female, R1/2, neoadj. RTX	2.1 7.5	5.5	4.6	5.1	5.2	4.7	4.1	3.5	3.1	2.8	2.5	2.3	4.0	3.4	3.0	2.7
<b>Clinical Example VIII</b> Synovial sarcoma, G3, 6cm, male, R0, no neoadj. RTX	4.0 11.5	7.8	5.1	5.2	5.0	4.1	3.1	2.5	2.0	1.6	1.4	1.1	1.8	1.3	1.0	0.7
<b>Clinical Example IX</b> Myxofibrosarcoma, G2, 10cm, male, R1/2, no neoadj. RTX	1.1 4.1	3.0	2.5	2.7	2.8	2.5	2.2	1.9	1.7	1.5	1.4	1.2	2.1	1.8	1.6	1.4

Clinical Example X	3.0	5.8	3.7	3.8	3.7	3.0	2.3	1.8	1.5	1.2	1.0	0.8	1.3	1.0	0.7	0.6	
Myxoid liposarcoma, G3, 12cm, female, R0, neoadjuvant RTX	8.5		7.4		6.5		4.1		2.6		1.8		2.3		1.3		

**Legend:** Conditional risks for distant metastasis according to the currently applied follow-up program for ten different clinical examples using the test cohort. Shaded areas highlight follow-up intervals exceeding the threshold of 2% for distant metastasis. The first row for each example depicts conditional risks at every 3 months, whilst in the second row, the predicted conditional risks in 6-month-intervals are shown.