Supplementary Table 1a: Individual patient parameters (*n*=31)

Diagnosis	Age (years)	Gender	Child-Pugh	Prior Treatment	KPS	Number of lesions	Hepatitis	Liver status	Site	Dose (Gy)	Follow-up		
											Status at LFU	Event	Median OS (months)
HCC	60	Male	C	Chemo	70-80	1	No	Fatty liver	Porta hepatis region	33	Local progression	Dead	10.6
Colon	81	Male	C	Chemo	70-80	1	No	Normal	Porta hepatis region	20	Local progression	Dead	7.4
Colon	44	Female	B	Chemo	70-80	1	No	Normal	Porta region	21	Local progression	Dead	8.3
Colon	45	Male	B	No prior Rx	70-80	1	No	Fatty liver	Porta hepatis region	27	Local progression	Dead	39.1
HCC	63	Male	B	TACE	70-80	2	Hepatitis C	Diffuse cirrhosis	Segment VII	30	Local progression	Dead	5.9
Colon	54	Male	C	Chemo	<70	3	No	Normal	Right lobe	21	Local progression	Dead	1.9
GB	55	Female	A	Chemo	70-80	1	No	Normal	Segment VI	27	Local progression	Dead	10.2
HCC	61	Male	B	TACE	70-80	2	Hepatitis C	Diffuse cirrhosis	Segment VIII	24	Metastasis	Dead	10.1
HCC	71	Male	B	TACE	70-80	1	Hepatitis B	Diffuse cirrhosis	Segment VII	27	Local progression	Dead	9.6
HCC	59	Male	C	Chemo	70-80	1	No	Normal	Segment VIII	30	Metastasis	Dead	26.5
GB	35	Female	B	Chemo	90-100	3	No	Normal	Segment VIII	30	Metastasis	Dead	13.3
HCC	61	Male	B	No prior Rx	90-100	1	Hepatitis B	Fatty liver	Right lobe	45	CR	Dead	29.8
HCC	53	Male	C	TACE	70-80	1	Hepatitis B	Diffuse cirrhosis	Segment VIII	27	Local progression	Dead	2.1
GB	61	Male	B	TACE	70-80	2	No	Fatty liver	Porta hepatis region	45	Local progression	Dead	12.8
HCC	59	Male	B	No prior Rx	90-100	1	Hepatitis C	Fatty liver	Right lobe	45	Stable	Alive	35.8
HCC	71	Male	B	No prior Rx	90-100	1	Hepatitis B	Fatty liver	Segment III	45	Metastasis	Alive	44.6
HCC	45	Male	C	Chemo	70-80	1	Hepatitis C	Diffuse cirrhosis	Right lobe	27	Local progression	Dead	4.9
HCC	47	Male	C	TACE	70-80	1	No	Fatty liver	Segment VII	45	Stable	Alive	12.1
HCC	48	Male	C	Chemo	70-80	3	No	Fatty liver	Segment VIII	45	Local progression	Dead	9
Colon	39	Female	B	Chemo	90-100	3	No	Fatty liver	Segment VIII	45	Local progression	Dead	12
Colon	49	Male	C	Chemo	70-80	3	No	Fatty liver	Segment VIII	45	Local progression	Dead	3.5
GB	32	Female	C	Chemo	70-80	2	No	Fatty liver	Segment VIII	45	Local progression	Dead	6.2
Colon	35	Male	B	TACE	90-100	1	No	Fatty liver	Segment VII	45	Stable	Alive	6.3

Contd...

Supplementary Table 1a: Contd...

Diagnosis	Age (years)	Gender	Child-Pugh	Prior Rx	KPS	Number of lesions	Hepatitis	Liver status	Site	Dose (Gy)	Follow-up		
											Status at LFU	Event	Median OS (months)
Colon	63	Male	C	Chemo	70-80		No	Fatty liver	Segment VII	45	Stable	Alive	4.3
Colon	66	Male	B	Chemo	90-100	2	No	Fatty liver	Segment VIII	45	Stable	Alive	3.8
Colon	34	Male	A	Chemo	90-100	1	No	Fatty liver	Segment VIII	45	Metastasis	Alive	6.9
Colon	61	Male	B	Chemo	70-80	3	No	Fatty liver	Segment VII	45	Stable	Alive	4.8
Breast	49	Female	A	No prior Rx	90-100	1	No	Normal	Segment VIII	45	Stable	Alive	6.9
GB	65	Male	A	No prior Rx	90-100	1	No	Normal	Segment VI	45	Metastasis	Alive	24.6
Colon	62	Male	A	Chemo	90-100	1	No	Normal	Segment VII	45	Stable	Alive	10.4
Colon	62	Female	A	Chemo	70-80	2	No	Fatty liver	Segment VIII	45	Stable	Alive	3.2

Child-Pugh (A, B, C). KPS=Karnofsky performance status, OS=Overall survival, TACE=Transarterial chemoembolization, HCC=Hepatocellular carcinoma, LFU=Last follow up status; GB=Gall bladder; CR=Complete response

Supplementary Table 1b: Individual patient parameters (*n*=31)

Diagnosis	PTV								Liver					Treatment parameters			
	PTV volume (cc)	Maximum dose	CI	nCI	HI	Mean dose	Percentage coverage	Prescription isodose (%)	Volume	20 Gy volume	10 Gy volume	800 cc dose	Mean dose	Nodes	Beamlets	Monitor unit	Time (min)
HCC	519	40.6	1.24	1.35	1.25	36.00	92	80	909	222	673	7.7	15.20	62	194	75,932	79
Colon	56.2	23.5	1.19	1.22	1.18	21.90	98	85	834	21	33	1.2	1.33	72	196	43,229	42
Colon	43.9	26.2	1.11	1.16	1.25	23.70	96	80	707.6	1.8	118	0.8	6.40	55	140	27,560	51
Colon	78.4	31.7	1.33	1.38	1.18	29.60	96	85	1278	95.6	332	4.7	8.00	73	160	26,795	51
HCC	83.5	37.5	1.2	1.3	1.21	32.80	95	80	1049	247	593	3.7	13.00	82	128	96,016	96
Colon	628	26.2	1.38	1.42	1.25	23.80	97	80	1973	272	981	12.6	11.30	66	159	30,015	63
GB	56.5	31.8	1.02	1.20	1.18	28.50	85	85	1921	47	257	4.1	5.10	57	187	30,707.	62
HCC	92	30	1.12	1.23	1.25	27.00	92	80	1019	26.2	296	4.2	8.20	52	152	34,183	52
HCC	157	31.8	1.06	1.20	1.18	28.70	89	85	1299	88	292	3.2	7.00	60	187	28,592	58
HCC	62.5	37.5	1.32	1.37	1.25	34.00	96	80	1801	18	235	5.6	5.50	49	174	67,001	60
GB	50.7	35.3	1.17	1.26	1.18	32.10	92	85	1452	73.3	249	4.6	6.80	79	236	68,521	63
HCC	10.3	47.1	1.14	1.20	1.10	46.00	95	90	1030	4.8	301	2.1	3.10	78	180	40,000	56
HCC	919	31.8	1.05	1.07	1.18	29.00	90	85	1336	256	771	9.8	13.00	89	222	32,621	71
GB	67.2	50.9	1.30	1.38	1.18	49.80	95	85	983	338	644	6.9	17.70	84	183	40,179	60
HCC	11.3	51	1.20	1.30	1.10	46.00	96	90	1050	5.1	30.	2.2	2.60	67	137	50,500	55
HCC	10.3	51.1	1.41	1.45	1.14	47.60	97	88	730	4.8	32.5	2.3	2.60	67	136	55,658	54
HCC	421	33.8	1.27	1.32	1.25	30.70	96	80	978	187	545	6.1	12.80	78	194	50,067	53
HCC	67.2	50.9	1.30	1.38	1.18	49.80	95	85	983.5	337	671	6.9	17.70	84	183	40,172	60
HCC	215	49.2	1.20	1.30	1.20	46.00	95	85	993	240	550	7	11.00	86	190	50,002	47
Colon	212	49.3	1.20	1.30	1.20	46.00	95	85	991	240	551	7.1	11.00	88	193	50,002	47
Colon	67.2	50.9	1.30	1.38	1.18	49.80	95	85	983.6	338	644	6.9	17.70	84	183	40,181	60
GB	67.1	51.1	1.30	1.39	1.2	49.9	95	86	984	348	676	7.1	17.7	84	183	40,283	61
Colon	10.1	47.3	1.15	1.20	1.12	46.1	95	90	1030	4.9	310	2.2	3.10	78	177	40,001	56
Colon	67.2	51.1	1.30	1.38	1.18	49.80	95	85	984	342	642	6.9	17.70	87	189	41,082	60
Colon	69.1	50.9	1.30	1.39	1.2	48.5	95	85	983	338	642	7.3	17.70	84	183	40,183	60
Colon	10	47.5	1.14	1.20	1.10	46.00	95	90	1030	4.80	410	2.2	3.10	78	180	40,001	56
Colon	69.2	51	1.30	1.38	1.2	51.8	95	85	983.5	339	644	6.9	17.70	84	183	40,126	58
Breast	65.7	52.8	1.31	1.42	1.17	49.7	95	85	984	332	653	6.9	17.70	84	181	40,183	60
GB	67.6	51.7	1.30	1.37	1.19	49.8	95	85	995	339	651	6.7	18.1	85	182	40,187	61
Colon	59.3	48.2	1.33	1.39	1.12	49.9	95	85	984	340	642	6.8	17.60	84	183	40,185	60
Colon	67.3	53.9	1.32	1.38	1.18	49.80	95	85	986	338	643	6.9	17.70	86	179	40,172	59

PTV=Planning target volume, CI=Conformity index; nCI=Normalized conformity index, HI=homogeneity index, HCC=Hepatocellular carcinoma, GB=Gall bladder