

Patient ID	Pathology	HbT			StO2			Water			Lipids			TOI		
		Norm	Tum	Ratio	Norm	Tum	Ratio	Norm	Tum	Ratio	Norm	Tum	Ratio	Norm	Tum	Ratio
49	IDC, high grade	10.17	11.30	1.11	44.71	38.33	0.86	44.88	71.65	1.60	20.25	36.09	1.78	22.53	22.42	1.00
25	IDC, high grade	14.92	14.45	0.97	60.97	58.04	0.95	37.02	40.76	1.10	57.58	65.84	1.14	9.59	8.94	0.93
54	IDC	13.63	21.53	1.58	56.97	52.61	0.92	49.35	76.70	1.55	19.24	29.70	1.54	34.96	55.59	1.59
18	IDC	13.03	9.47	0.73	42.01	48.60	1.16	31.33	29.19	0.93	15.68	32.91	2.10	26.03	8.40	0.32
31	IDC	20.75	22.81	1.10	54.48	54.28	1.00	38.68	53.72	1.39	39.68	49.60	1.25	20.23	24.71	1.22
51	IDC	14.38	18.19	1.26	47.11	42.38	0.90	56.69	78.84	1.39	16.98	24.85	1.46	48.01	57.73	1.20
4	IDC	13.71	11.14	0.81	69.99	57.98	0.83	5.45	27.91	5.12	9.93	35.62	3.59	7.53	8.73	1.16
58	IDC	26.19	36.85	1.41	64.46	67.52	1.05	37.86	56.59	1.49	36.06	52.16	1.45	27.50	39.98	1.45
28	IDC	7.50	8.99	1.20	13.33	11.15	0.84	39.35	68.28	1.74	12.77	27.49	2.15	23.13	22.33	0.97
21	IDC	8.33	9.61	1.15	33.49	32.79	0.98	45.73	68.70	1.50	15.41	28.89	1.87	24.73	22.86	0.92
48	IDC	18.29	17.91	0.98	58.89	54.82	0.93	42.56	57.47	1.35	29.49	45.23	1.53	26.40	22.76	0.86
1	IDC	9.25	10.61	1.15	49.91	51.14	1.02	53.80	61.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00
23	IDC	17.46	23.18	1.33	53.30	50.83	0.95	46.64	65.13	1.40	25.08	44.71	1.78	32.48	33.77	1.04
56	IDC	19.94	18.99	0.95	61.11	58.86	0.96	39.38	46.88	1.19	43.30	54.31	1.25	18.13	16.39	0.90
61	IDC	22.18	21.76	0.98	69.79	70.81	1.01	19.86	34.17	1.72	41.86	65.45	1.56	10.53	11.36	1.08
57	IDC	16.99	15.56	0.92	56.13	55.27	0.98	46.20	44.63	0.97	55.97	55.35	0.99	14.03	12.55	0.89
55	IDC	18.40	21.73	1.18	47.86	52.29	1.09	51.35	71.59	1.39	17.12	30.00	1.75	55.20	51.85	0.94
5	DC	24.15	22.58	0.94	71.75	70.35	0.98	13.61	22.86	1.68	58.52	77.13	1.32	5.62	6.69	1.19
40	DC, low grade	16.93	16.92	1.00	52.31	54.31	1.04	60.43	71.06	1.18	26.17	27.87	1.06	39.08	43.16	1.10
30	after chemo, no residue	13.20	13.76	1.04	46.07	41.61	0.90	47.07	71.36	1.52	19.08	32.38	1.70	32.56	30.33	0.93
36	after chemo, residue	8.72	9.26	1.06	11.47	10.82	0.94	75.26	101.96	1.35	15.37	19.18	1.25	42.69	49.21	1.15
<b>Mean</b>		<b>15.63</b>	<b>16.98</b>	<b>1.09</b>	<b>50.77</b>	<b>49.28</b>	<b>0.97</b>	<b>42.02</b>	<b>58.12</b>	<b>1.56</b>	<b>27.41</b>	<b>39.75</b>	<b>1.55</b>	<b>24.81</b>	<b>26.18</b>	<b>0.99</b>
<b>Standard Deviation</b>		<b>5.26</b>	<b>6.82</b>	<b>0.20</b>	<b>16.01</b>	<b>15.90</b>	<b>0.08</b>	<b>15.56</b>	<b>19.84</b>	<b>0.85</b>	<b>16.57</b>	<b>17.97</b>	<b>0.65</b>	<b>14.36</b>	<b>17.52</b>	<b>0.34</b>
Benign		Norm	Tum	Ratio	Norm	Tum	Ratio	Norm	Tum	Ratio	Norm	Tum	Ratio	Norm	Tum	Ratio
35	Fibroadenoma	7.63	7.83	1.03	13.10	12.77	0.97	88.69	87.45	0.99	13.13	15.06	1.15	51.56	45.47	0.88
10	Fibroadenoma	26.11	16.06	0.62	80.19	72.17	0.90	15.01	21.26	1.42	64.27	79.79	1.24	6.10	4.28	0.70
26	Fibroadenoma	32.55	23.10	0.71	61.94	58.39	0.94	63.53	61.33	0.97	43.00	41.00	0.95	48.09	34.56	0.72
45	Fibroadenoma	31.89	24.50	0.77	61.36	62.19	1.01	51.21	60.07	1.17	30.04	38.20	1.27	54.36	38.52	0.71
20	Adenosis	12.26	11.52	0.94	20.45	21.06	1.03	73.61	38.93	0.53	17.04	15.36	0.90	52.94	29.20	0.55
6	Adenosis	47.36	15.35	0.32	78.43	63.06	0.80	20.78	22.22	1.07	47.93	47.76	1.00	20.53	7.14	0.35
39	Adenosis	12.64	15.25	1.21	59.61	57.06	0.96	40.89	64.95	1.59	14.09	30.82	2.19	36.68	32.13	0.88
46	Cystic hyperplasia	11.20	9.23	0.82	18.86	21.68	1.15	58.78	55.53	0.94	21.78	25.22	1.16	30.24	20.33	0.67
38	Intraductal papilloma	17.36	18.32	1.06	60.35	53.53	0.89	39.34	76.01	1.93	12.36	33.43	2.70	55.23	41.65	0.75
<b>Mean</b>		<b>22.11</b>	<b>15.68</b>	<b>0.83</b>	<b>50.48</b>	<b>46.88</b>	<b>0.96</b>	<b>50.20</b>	<b>54.19</b>	<b>1.18</b>	<b>29.29</b>	<b>36.29</b>	<b>1.40</b>	<b>39.52</b>	<b>28.14</b>	<b>0.69</b>
<b>Standard Deviation</b>		<b>13.21</b>	<b>5.71</b>	<b>0.27</b>	<b>25.96</b>	<b>22.03</b>	<b>0.10</b>	<b>23.95</b>	<b>22.71</b>	<b>0.41</b>	<b>18.52</b>	<b>19.68</b>	<b>0.62</b>	<b>17.46</b>	<b>14.66</b>	<b>0.16</b>

Supplemental Table 1