

Patient number	Reoperation	Gender	Year	BMI	Tumor size (cm)	TgAb (IU/ml)	Lymph Node number	Longest (cm)	Location	GICA-3 min (ng/ml)	GICA-1 0 min (ng/ml)	GICA-1 5 min (ng/ml)	ECLIA (ng/ml)	Frozen section	Pathology
Patient1	Yes	Male	36	25	2	12	LN1	1.0	Lateral	86.36	129.94	152.63	241.53	Metastatic	Metastatic
							LN2	0.6	Lateral	75.23	95.86	128.37	349.5	Metastatic	Metastatic
Patient2	No	Female	22	18.1	4.5	0.1	LN3	0.8	Lateral	389.64	455.57	472.73	481	Metastatic	Metastatic
							LN4	0.2	Lateral	296.73	442.29	464.28	481	Metastatic	Metastatic
Patient3	No	Female	30	29.1	4	0.18	LN5	0.8	Lateral	193.42	318.88	365.71	481	Metastatic	Metastatic
							LN6	0.6	Lateral	4.33	38.69	66.62	481	Benign	Benign
Patient4	No	Female	41	22.9	1.2	3.53	LN7	1.0	Central	0.05	0.05	0.05	3.34	Benign	Benign
							LN8	0.5	Lateral	0.05	0.05	0.05	2.42	Benign	Benign
Patient5	Yes	Female	35	24.8	2.6	0.1	LN9	1.5	Central	1.66	2.5	3.41	3.79	Benign	Benign
							LN10	1.0	Lateral	500	500	500	481	Metastatic	Metastatic
Patient6	Yes	Female	32	25.4	1.6	2.42	LN11	1.6	Lateral	168.42	263.11	324.75	481	Metastatic	Metastatic
							LN12	1.3	Lateral	93.42	125.05	166.38	327.2	Metastatic	Metastatic
Patient7	Yes	Female	27	22.3	1.4	4.67	LN13	1.0	Central	17.34	42.15	98.33	181.6	Metastatic	Metastatic
							LN14	0.3	Lateral	0.05	0.05	0.05	2.74	Benign	Benign
Patient8	Yes	Female	26	20.2	4.6	5.66	LN15	0.8	Lateral	188.27	284.66	330.64	481	Metastatic	Metastatic
							LN16	1.3	Lateral	343.6	379.73	426.63	481	Metastatic	Metastatic
Patient9	No	Female	24	23.3	3.5	0.7	LN17	1.5	Lateral	1.32	2.18	3.77	6.31	Benign	Benign
							LN18	0.6	Lateral	104.83	116.26	177.04	481	Metastatic	Metastatic
Patient9	No	Female	24	23.3	3.5	0.7	LN19	0.3	Lateral	88.29	183.73	243.03	73.1	Benign	Benign
							LN20	0.5	Lateral	0.05	0.05	0.05	9.74	Benign	Benign
Patient9	No	Female	24	23.3	3.5	0.7	LN21	0.5	Lateral	0.05	0.05	0.05	0.12	Benign	Benign
							LN22	0.5	Lateral	500	500	500	481	Metastatic	Metastatic

Patient10	Yes	Female	30	19.5	3.8	0.04	LN23	1.3	Lateral	69.78	106.56	163.1	481	Metastatic	Metastatic
							LN24	0.4	Lateral	258.04	425.94	478.12	481	Metastatic	Metastatic
							LN25	1.3	Lateral	143.21	164.17	231.81	481	Metastatic	Metastatic
							LN26	0.7	Central	48.62	84.04	153.26	481	Metastatic	Metastatic
							LN27	0.5	Lateral	101.68	291.63	339.8	481	Metastatic	Metastatic
Patient11	Yes	Male	40	24.8	1.2	90.52	LN28	0.6	Lateral	45.32	78.58	120.69	1.27	Benign	Metastatic
							LN29	1.1	Central	43.08	74.74	117.94	154.14	Metastatic	Metastatic
							LN30	1.3	Central	34.58	82.41	128.36	266.95	Metastatic	Metastatic
Patient12	No	Female	29	18.4	2.0	115.53	LN31	0.6	Central	1.12	1.46	2.19	0.43	Benign	Benign
							LN32	0.5	Lateral	3.13	15.06	41.92	146.91	Metastatic	Metastatic
							LN33	1.1	Lateral	84.2	126.8	157.79	481	Metastatic	Metastatic
Patient13	No	Female	56	24.9	3.0	0.02	LN34	0.6	Lateral	0.05	0.05	0.05	9.28	Benign	Benign
							LN35	0.4	Lateral	0.05	0.05	0.05	2.46	Benign	Benign
							LN36	0.9	Lateral	0.05	0.05	0.05	1	Benign	Benign
Patient14	No	Male	42	29.8	1.1	0.15	LN37	1.3	Lateral	46.75	81.93	134.23	481	Metastatic	Metastatic
							LN38	0.7	Lateral	35.86	67.41	115.32	54.19	Benign	Benign
							LN39	1.0	Lateral	101.94	136.92	184.91	481	Metastatic	Metastatic
Patient15	No	Female	52	21.9	2.0	298.03	LN40	0.8	Lateral	0.05	0.05	0.05	1.09	Benign	Benign
							LN41	0.6	Lateral	0.05	0.05	0.05	1.35	Benign	Benign
							LN42	0.6	Lateral	34.34	76.74	118.15	128.85	Metastatic	Metastatic
Patient16	No	Male	48	26	1.7	0.03	LN43	0.4	Lateral	0.05	0.05	0.05	1.49	Benign	Benign
							LN44	0.5	Lateral	345.62	455.06	489.92	481	Metastatic	Metastatic
							LN45	0.5	Lateral	0.05	0.05	0.05	4.37	Benign	Benign
Patient17	No	Female	27	19.6	2.5	0.06	LN46	0.8	Lateral	247.3	302.4	378.71	481	Metastatic	Metastatic
							LN47	1.3	Lateral	53.18	84.94	136.21	481	Metastatic	Metastatic

							LN48	0.3	Lateral	96.62	179.07	249.64	481	Metastatic	Metastatic
							LN49	0.7	Lateral	98.75	151.25	198.53	481	Metastatic	Metastatic
Patient18	No	Female	57	24.8	0.5	0.02	LN50	1.0	Lateral	7.18	33.26	72.36	21.57	Benign	Benign
							LN51	0.6	Lateral	0.05	0.05	0.05	4.57	Benign	Benign
							LN52	1.2	Lateral	0.05	0.05	0.05	1.82	Metastatic	Metastatic
Patient19	No	Male	26	25.5	1.2	0.01	LN53	1.0	Lateral	0.05	0.05	0.05	0.26	Benign	Benign
							LN54	1.1	Lateral	152.53	194.56	274.6	481	Metastatic	Metastatic
Patient20	No	Female	32	24	0.4	0.4	LN55	0.2	Central	162.74	241.07	299.87	481	Metastatic	Benign
							LN56	0.2	Central	0.05	0.05	0.05	2.59	Benign	Benign
Patient21	No	Male	52	23.5	0.4	71.7	LN57	0.4	Central	6.12	8.37	21.85	0.34	Benign	Benign
							LN58	0.7	Central	0.05	0.05	0.05	110.83	Benign	Benign
Patient22	No	Female	23	19.4	0.7	331.69	LN59	0.7	Central	0.05	0.05	0.05	1.57	Benign	Benign
							LN60	0.9	Central	0.05	0.05	0.05	2.74	Benign	Benign
							LN61	0.8	Central	6.77	48.95	95.1	75.32	Metastatic	Metastatic
Patient23	No	Male	34	30.4	1.5	0.76	LN62	0.5	Central	86.75	131.29	184.3	481	Metastatic	Metastatic
							LN63	0.5	Central	29.66	53.44	85.42	481	Metastatic	Metastatic
							LN64	0.6	Lateral	1.68	2.3	3.17	8.93	Benign	Benign
Patient24	No	Female	52	26.7	1.9	0.14	LN65	0.6	Lateral	0.05	0.05	0.05	0.15	Benign	Benign
							LN66	0.6	Lateral	138.6	192.47	224.62	410.95	Metastatic	Benign
Patient25	No	Female	46	23.1	1.1	35.68	LN67	0.6	Central	33.13	66.58	87.52	72.92	Metastatic	Benign
							LN68	0.4	Central	13.19	44.45	77.17	37.15	Benign	Benign
Patient26	No	Female	31	21.5	1.4	1.12	LN69	0.2	Central	3.63	4.75	8.64	75.45	Benign	Benign
							LN70	0.5	Central	4.23	6.39	8.8	22.53	Benign	Benign
Patient27	No	Male	44	24.5	1.5	75.44	LN71	1.2	Lateral	0.05	0.05	0.05	2.77	Benign	Benign
							LN72	1.0	Lateral	37.76	51.58	109.63	481	Metastatic	Metastatic

Patient28	No	Female	55	29.5	0.8	46.38	LN73	1.4	Lateral	75.07	127.43	169.28	481	Metastatic	Metastatic
							LN74	0.6	Central	0.68	1.09	2.22	65.94	Benign	Benign
							LN75	0.4	Central	3.34	5.08	6.33	31.66	Benign	Benign
Patient29	No	Male	46	28.4	3.0	0.1	LN76	1.0	Lateral	75.32	121.05	189.74	481	Metastatic	Metastatic
							LN77	1.1	Central	1.05	1.86	4.3	27.96	Benign	Benign
							LN78	0.4	Lateral	368.4	442.8	462.9	481	Metastatic	Metastatic
Patient30	Yes	Female	25	18.8	3.0	4.5	LN79	0.8	Lateral	25.33	54.89	87.4	481	Metastatic	Metastatic
							LN80	0.8	Lateral	43.35	75.59	127.83	481	Metastatic	Metastatic
							LN81	0.6	Lateral	34.38	67.78	129.69	481	Metastatic	Metastatic
Patient31	No	Female	27	21.6	2.5	0.01	LN82	1.1	Lateral	37.56	52.07	118.97	481	Metastatic	Metastatic
							LN83	1.0	Lateral	41.4	60.47	93.22	481	Metastatic	Metastatic
							LN84	0.5	Lateral	83.22	137.2	186.42	481	Metastatic	Benign
Patient32	No	Female	37	20.4	3.2	1.9	LN85	0.8	Lateral	86.5	150.2	220.61	481	Metastatic	Metastatic
							LN86	0.8	Lateral	0.05	0.05	0.05	1.99	Benign	Benign
							LN87	1.8	Lateral	0.05	0.05	0.05	5.97	Benign	Benign
Patient33	No	Female	42	22.9	0.8	481	LN88	0.9	Lateral	39.87	61.07	94.12	481	Metastatic	Metastatic
							LN89	1.0	Lateral	0.05	0.05	0.05	1.45	Benign	Benign
							LN90	0.8	Central	1.98	2.96	3.22	37.11	Benign	Benign
Patient34	No	Female	51	28.7	2.7	0.34	LN91	0.8	Central	23.9	36.46	67.12	15.63	Benign	Benign
							LN92	0.8	Central	0.05	0.05	0.05	15.39	Benign	Benign
							LN93	0.4	Central	0.05	0.05	0.05	12.39	Benign	Benign
Patient34	No	Female	51	28.7	2.7	0.34	LN94	1.2	Lateral	24.57	55.77	83.96	185.76	Metastatic	Metastatic
							LN95	0.9	Lateral	97.47	202.95	224.61	481	Metastatic	Metastatic
							LN96	1.5	Lateral	56.14	151.59	207.79	481	Metastatic	Metastatic
							LN97	1.1	Lateral	0.05	6.38	13.88	49.75	Benign	Metastatic

Patient35	No	Male	43	24.8	2.0	0.05	LN98	0.6	Lateral	229.5	273.25	320.36	481	Metastatic	Metastatic
							LN99	1.4	Central	15.52	20.54	28.06	481	Metastatic	Metastatic
							LN100	0.6	Lateral	178.14	216.57	267.18	481	Metastatic	Metastatic
Patient36	No	Female	56	26.4	3.5	27.69	LN101	1.8	Lateral	326.49	358.82	429.45	481	Metastatic	Metastatic
							LN102	0.5	Lateral	1.54	2.54	3.79	0.08	Benign	Metastatic
							LN103	0.6	Lateral	0.05	0.05	0.05	0.04	Benign	Metastatic
Patient37	No	Male	34	26	1.8	0.03	LN104	1.8	Central	34.64	54.77	85.01	481	Metastatic	Metastatic
							LN105	0.9	Lateral	96.17	223.56	308.74	481	Metastatic	Metastatic
							LN106	1.1	Lateral	185.13	310.01	393.77	481	Metastatic	Benign
Patient38	Yes	Female	55	25.4	2.1	0.08	LN107	0.6	Lateral	4.83	7.34	12.8	108.79	Benign	Benign
							LN108	0.8	Lateral	54.29	79.18	142.34	159.96	Benign	Benign
							LN109	0.7	Lateral	25.5	75.43	136.12	159.15	Metastatic	Metastatic
Patient39	No	Female	33	19.1	2.9	3.58	LN110	0.7	Lateral	41.96	72.95	128.31	481	Metastatic	Metastatic
							LN111	1.9	Lateral	41.98	81.86	133.75	157.7	Metastatic	Metastatic
							LN112	0.7	Lateral	0.05	0.05	0.05	2.37	Benign	Benign
Patient40	Yes	Male	26	28.9	0.7	481	LN113	1.2	Lateral	0.05	0.05	0.05	0.64	Benign	Benign
							LN114	0.7	Lateral	0.05	0.05	0.05	0.67	Benign	Benign
							LN115	0.2	Lateral	0.05	0.05	0.05	1.74	Benign	Benign
Patient41	No	Male	35	27	0.5	25.76	LN116	1.1	Lateral	0.05	0.05	0.05	2.73	Benign	Benign
							LN117	1.0	Lateral	96.65	190.02	249.85	481	Metastatic	Metastatic
							LN118	1.2	Central	14.21	17.51	27.81	481	Metastatic	Metastatic
Patient42	No	Female	34	18.4	0.7	3.89	LN119	0.6	Lateral	33.07	194.56	270.08	481	Metastatic	Metastatic
							LN120	0.5	Central	0.05	0.05	0.05	1.49	Benign	Benign
							LN121	0.5	Central	15.58	27.63	48.54	10.15	Benign	Benign
Patient42	No	Female	34	18.4	0.7	3.89	LN122	0.6	Central	0.05	3.33	4.75	51.36	Benign	Benign

							LN123	0.9	Central	4.01	5.54	6.46	52.97	Benign	Benign
							LN124	0.5	Central	0.05	0.05	0.05	19.54	Benign	Benign
Patient43	No	Male	24	20	0.4	0.01	LN125	0.3	Central	0.05	3.81	5.66	41.52	Benign	Benign
							LN126	0.3	Central	67.81	112.32	174.65	479	Benign	Benign
Patient44	No	Female	51	28.7	1.5	0.01	LN127	0.6	Central	0.05	6.39	34.18	190.27	Metastatic	Metastatic
							LN128	0.6	Central	31.25	157.88	216.18	479	Metastatic	Metastatic
							LN129	0.5	Central	46.98	92.63	153.34	479	Metastatic	Metastatic
Patient45	No	Female	51	25.4	1.1	481	LN130	0.5	Central	0.05	6.1	27.6	95.6	Benign	Benign
							LN131	0.4	Central	4.05	7.37	11.22	201.41	Benign	Benign
							LN132	0.4	Central	0.05	5.37	18.94	405.64	Benign	Benign
Patient46	No	Male	46	25.6	0.4	0.01	LN133	0.5	Central	40.77	68.63	98.37	100.9	Benign	Benign
							LN134	0.4	Central	59.34	98.93	111.14	290.87	Benign	Benign
							LN135	0.5	Central	1.86	5.81	9.72	42.15	Benign	Benign
							LN136	0.5	Central	0.05	3.26	5.79	1.85	Benign	Benign
Patient47	No	Female	49	23.2	0.8	0.1	LN137	0.4	Lateral	0.05	0.05	0.05	0.83	Benign	Benign
							LN138	0.7	Lateral	1.94	3.38	7.62	10.02	Metastatic	Benign
							LN139	0.4	Central	92.23	104.63	119.01	479	Benign	Benign
Patient48	No	Male	36	24.2	0.9	0.2	LN140	0.3	Central	0.05	0.05	0.05	12.32	Benign	Benign
							LN141	0.3	Central	0.05	2.68	4.31	8.91	Benign	Benign
							LN142	0.5	Central	0.05	0.05	0.05	1.47	Benign	Benign
Patient49	No	Female	60	23.7	1.5	0.01	LN143	0.5	Central	0.05	5.69	9.18	54.37	Benign	Benign
							LN144	0.5	Central	1.38	6.81	14.5	58.05	Benign	Benign
Patient50	No	Male	49	24.5	0.5	0.01	LN145	0.4	Central	0.05	1.94	3.29	14.62	Benign	Benign
							LN146	0.4	Central	0.05	0.05	0.05	12.28	Benign	Benign
Patient51	No	Female	38	19.1	0.8	67.17	LN147	0.5	Central	28.09	58.36	86.72	479	Metastatic	Metastatic

LN148	0.3	Central	111.53	236.48	313.25	479	Metastatic	Metastatic
LN149	0.5	Central	78.45	169.06	216.75	479	Metastatic	Metastatic
LN150	0.4	Central	41.1	58.73	85.57	479	Benign	Metastatic
