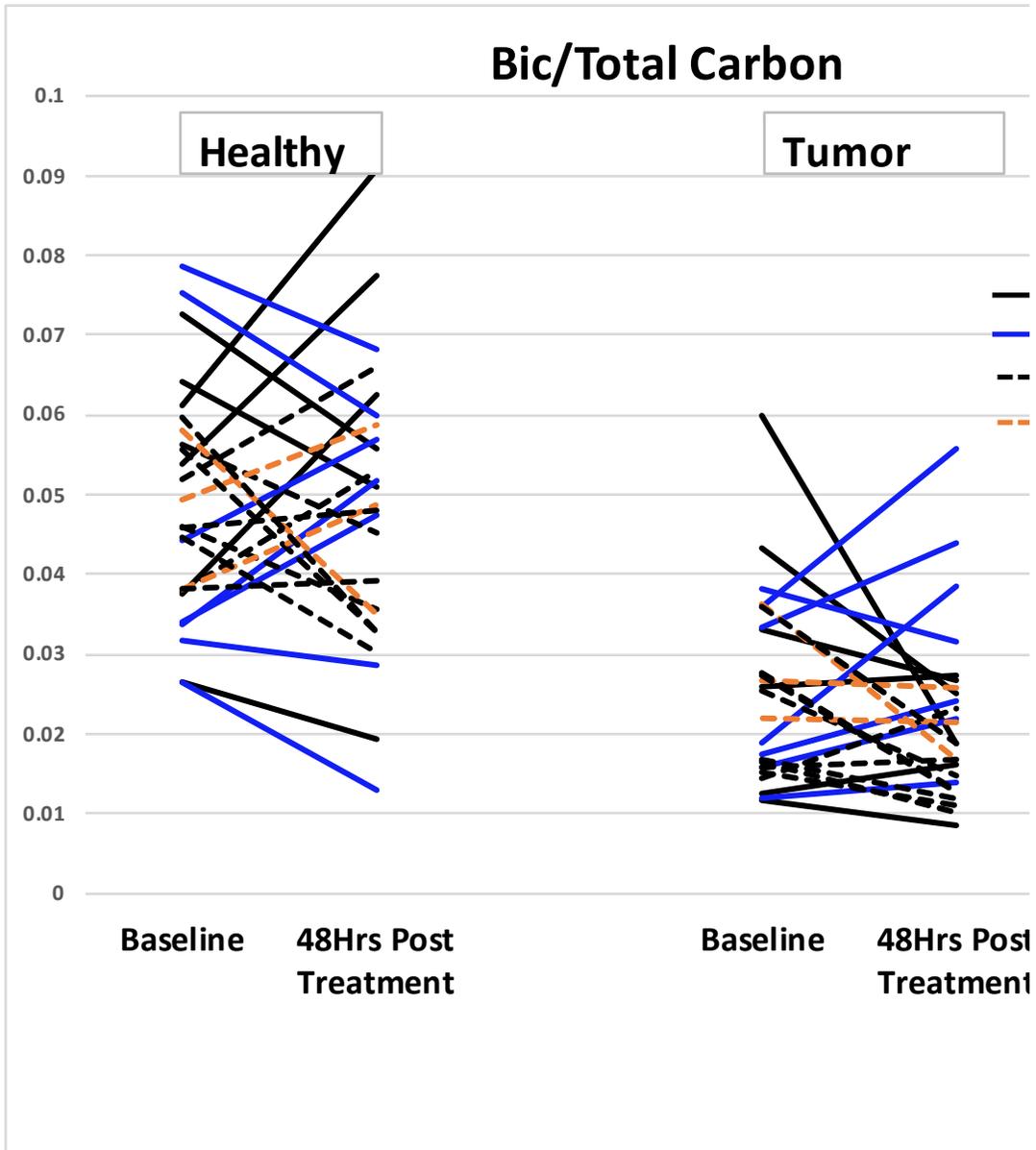


# Bic/Total Carbon



		Bic/Total				
		Healthy			Tumor	
	Animal ID	Baseline	48Hrs Post Treatment		Baseline	48Hrs Post Treatment
Deceased	1707	0.0612668	0.0908083		0.0432747	0.0251139
	1708	0.072641	0.0558416		0.0598157	0.0188284
	1711	0.0641905	0.0511286		0.0259586	0.0273644
	1712	0.0538217	0.0774852		0.0332681	0.0267635
	1796	0.0265466	0.0195363		0.0118833	0.00857744
	1852	0.0374616	0.062551		0.0125682	0.0161041
	Mean	0.0526547	0.0595585		0.0311281	0.02045862
	Std.Err.	0.00649897	0.00911886		0.00690542	0.00274821
	Animal ID	Baseline	48Hrs Post Treatment		Baseline	48Hrs Post Treatment
Survivor	1709	0.0786412	0.0682023		0.0359613	0.0558325
	1713	0.0753175	0.0598482		0.0383377	0.0315972
	1797	0.0265005	0.0129091		0.0119912	0.0138462
	1798	0.0317538	0.0286441		0.0174865	0.0240897

	1799	0.0336827	0.0517774		0.0158674	0.0220733
	1849	0.0341571	0.0474574		0.0189252	0.0386528
	1851	0.0443863	0.0569373		0.0333894	0.0441237
	Mean	0.04634844	0.0465394		0.02456553	0.03288791
	Std.Err.	0.00756182	0.00675223		0.00381483	0.00503974
	<b>Animal ID</b>	<b>Baseline</b>	<b>48Hrs Post Treatment</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>
Control	2140	0.0563063	0.0451631		0.0165287	0.0101872
	2141	0.0380361	0.0530063		0.0253483	0.0148091
	2142	0.0492763	0.0587715		0.0267576	0.0258281
	2143	0.055669	0.0328781		0.015854	0.0169072
	2144	0.0460151	0.0356812		0.0153911	0.0110735
	2145	0.0520971	0.0660446		0.0144859	0.0232213
Control	2264	0.0381772	0.0487235		0.0220039	0.0215037
	2265	0.0446753	0.0301392		0.0166795	0.0119122
	2266	0.0460058	0.0480539		0.027714	0.0129452
	2267	0.0580857	0.0349459		0.0362524	0.0168666
	2268	0.0597108	0.0326663		0.0358364	0.0188626
	2269	0.0382498	0.0392408		0.0272344	0.0127497
	Mean	0.04852538	0.0437762		0.02334052	0.01640553
	Std.Err.	0.00219149	0.00316543		0.00214583	0.00140166

Bic/Pyr						
		Healthy			Tumor	
<b>Animal ID</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>
Deceased	1707	0.10093377	0.1657485		0.07063447	0.04708912
	1708	0.1232325	0.08897925		0.10853008	0.0259839
	1711	0.10497992	0.07150903		0.03733917	0.04677219
	1712	0.10345313	0.14732203		0.05543935	0.05793354
	1796	0.03313334	0.02391505		0.01415106	0.01043263
	1852	0.05639472	0.10529674		0.01644633	0.02584065
	Mean	0.08702123	0.10046177		0.05042341	0.03567534
	Std.Err.	0.01284439	0.01922898		0.01338672	0.00661791
<b>Animal ID</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>
Survivor	1709	0.15099178	0.12694279		0.07030475	0.12919524
	1713	0.14530156	0.12382907		0.06340142	0.06251709
	1797	0.0374992	0.01434955		0.01545756	0.0162199
	1798	0.04131586	0.03658629		0.02141578	0.03066193

	1799	0.03932791	0.07288814		0.01911242	0.02722857
	1849	0.04333453	0.06544991		0.0230512	0.05166306
	1851	0.06596201	0.10568428		0.04800845	0.07137367
	Mean	0.07481898	0.07796143		0.03725023	0.05555135
	Std.Err.	0.01785123	0.01512682		0.00801589	0.01332945
	<b>Animal ID</b>		48Hrs Post Treatment			48Hrs Post Treatment
		Baseline			Baseline	
Control	2140	0.10184457	0.07217539		0.02325235	0.01303855
	2141	0.05539873	0.08246311		0.03422597	0.01956244
	2142	0.08184439	0.09171854		0.04047075	0.04013198
	2143	0.09401642	0.04749873		0.02263331	0.02507222
	2144	0.07086878	0.04935869		0.02055622	0.01412298
	2145	0.08218829	0.12879036		0.01882305	0.03738292
Control	2264	0.0507258	0.06881763		0.02920908	0.03076154
	2265	0.07563867	0.04724761		0.02460593	0.01682296
	2266	0.06318844	0.0690634		0.04402423	0.01723609
	2267	0.10402018	0.04435052		0.06195752	0.02299218
	2268	0.10981943	0.04378467		0.06083184	0.02652147
	2269	0.05486351	0.05318926		0.04940203	0.01750575
	Mean	0.07870143	0.06653816		0.03583269	0.02342926
	Std.Err.	0.00565614	0.00698426		0.00425562	0.00245305

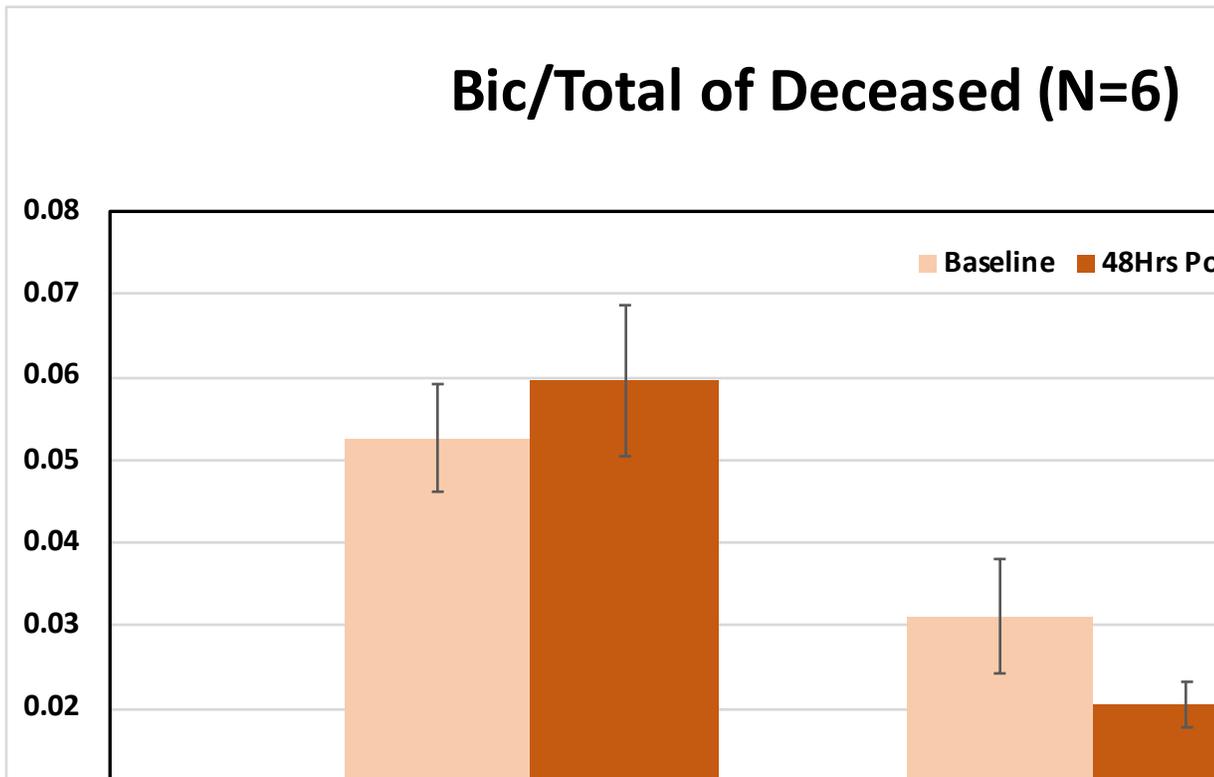
		Bic/Pyr			
		Normal		Tumor	
		Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment
	Mean	0.08702123	0.10046177	0.05042341	0.03567534
	Std.Err.	0.01284439	0.01922898	0.01338672	0.00661791
	Mean	0.07481898	0.07796143	0.03725023	0.05555135
	Std.Err.	0.01785123	0.01512682	0.00801589	0.01332945
	Mean	0.07870143	0.06653816	0.03583269	0.02342926
	Std.Err.	0.00565614	0.00698426	0.00425562	0.00245305

The following tables are copied from rows 116 to 124 and pasted as values here and

		Bic/Pyr				
		Normal		Tumor		Norr
		Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment	Baseline
<b>Deceased (N=6)</b>		<b>0.087±0.013</b>	<b>0.1±0.019</b>	<b>0.05±0.013</b>	<b>0.036±0.007</b>	<b>0.522±0.073</b>

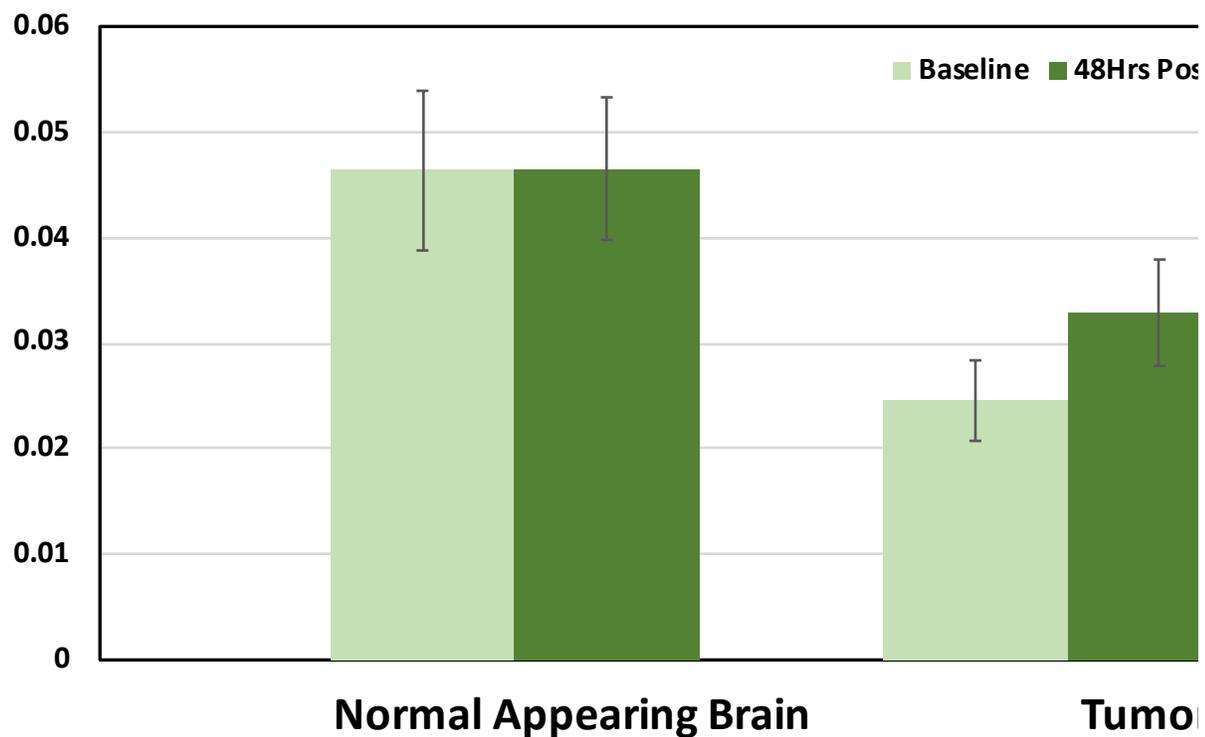
	<b>Survivors (N=7)</b>	<b>0.075±0.018</b>	<b>0.078±0.015</b>	<b>0.037±0.008</b>	<b>0.056±0.013</b>	<b>0.423±0.091</b>
	<b>Controls (N=12)</b>	<b>0.079±0.006</b>	<b>0.067±0.007</b>	<b>0.036±0.004</b>	<b>0.023±0.002</b>	<b>0.521±0.043</b>

Deceased Lac/Bic in tumor region post treatment	Survivor Lac/Bic in tumor region post treatment	The p-value was computed from online site: <a href="https://www">https://ww</a>
17.5823	9.17049	
13.6259	14.6528	
14.1636	9.56931	
19.1032	7.89779	
19.7318	7.57746	
22.3973	5.51515	
	7.65279	
17.76735	8.86225571	
3.08903603	"?	

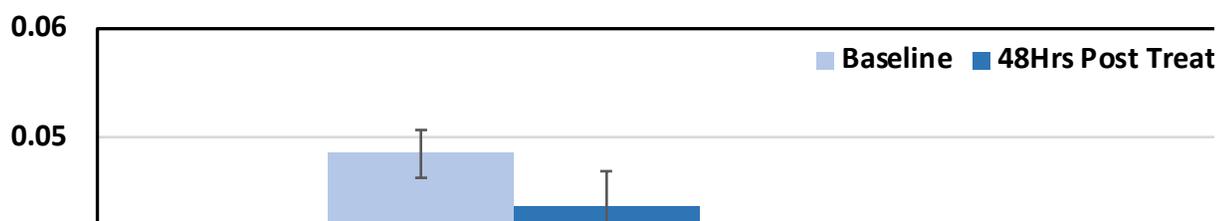


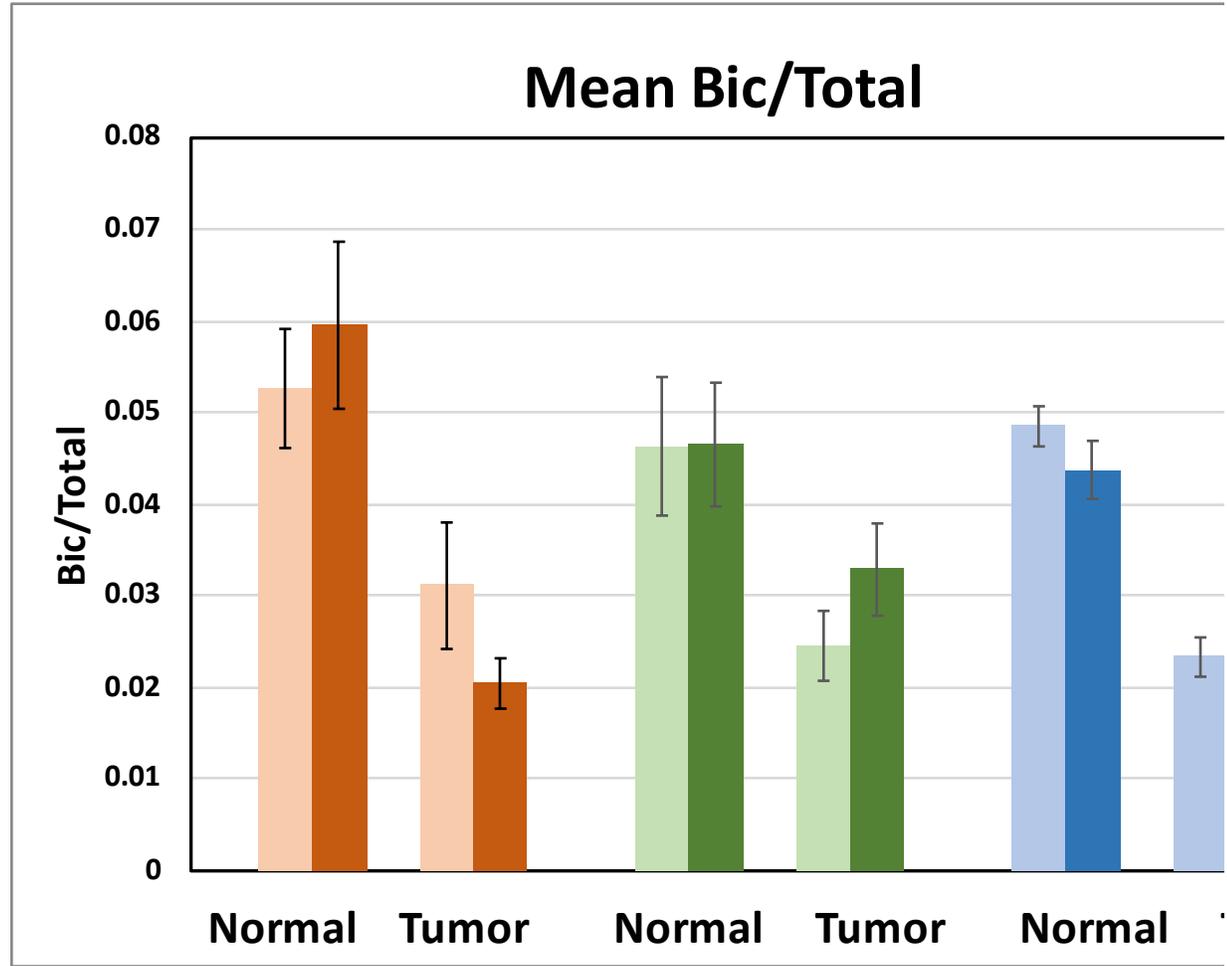
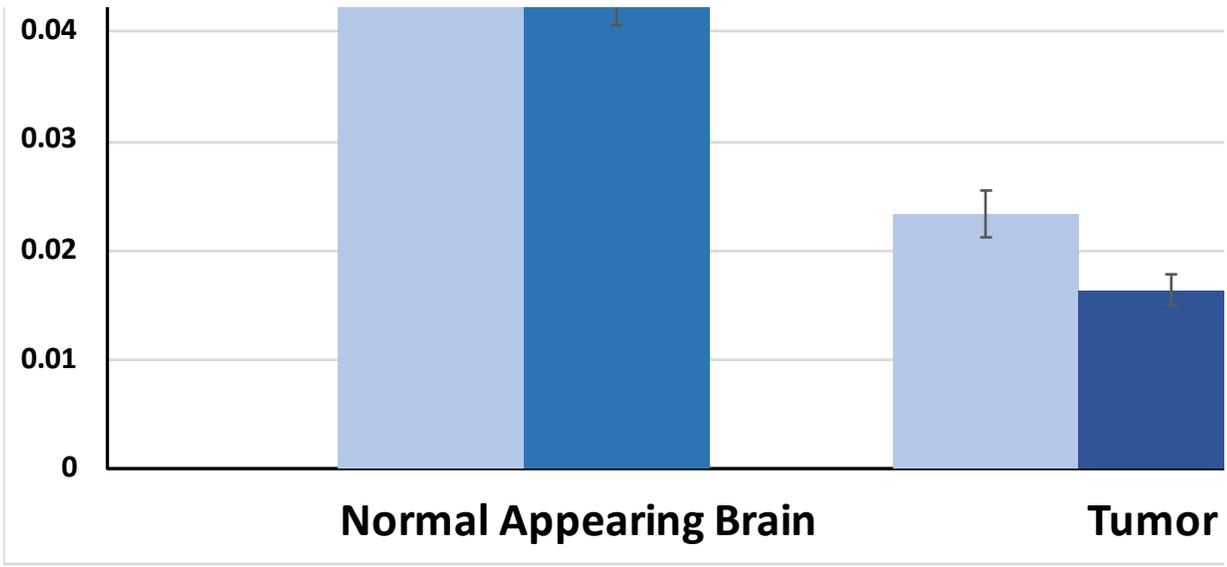


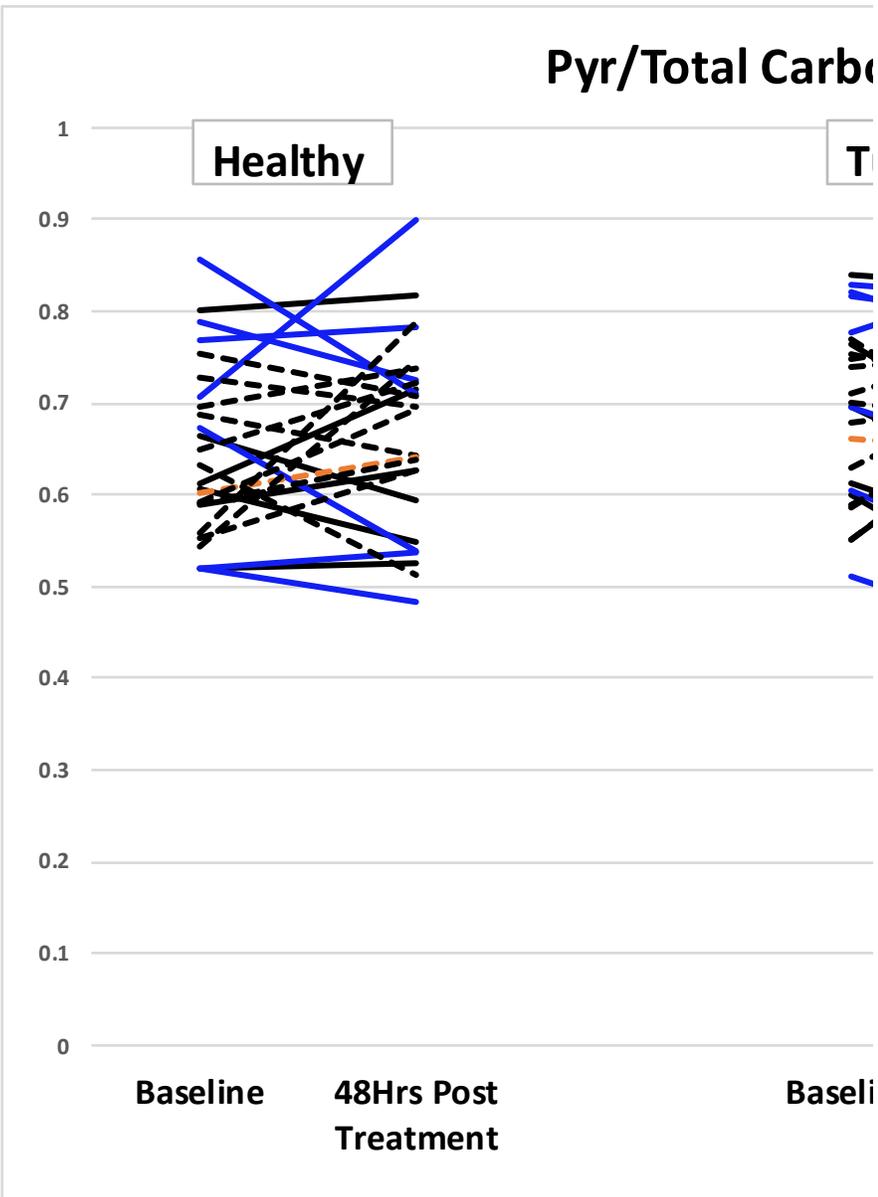
### Bic/Total of Survivors (N=7)



### Bic/Total of Controls (N=12)









	Pyr/Total		
	Healthy		
Animal ID	Baseline	48Hrs Post Treatment	
1707	0.607	0.547868	
1708	0.589463	0.62758	
1711	0.611455	0.714995	
1712	0.520252	0.525958	
1796	0.801205	0.816904	
1852	0.664275	0.594045	
Mean	0.632275	0.63789167	
Std.Err.	0.03536149	0.04104625	
Animal ID	Baseline	48Hrs Post Treatment	
1709	0.520831	0.537268	
1713	0.518353	0.483313	
1797	0.706695	0.899617	
1798	0.768562	0.782919	

2.44948974

	1799	0.856458	0.710368
	1849	0.788219	0.725095
	1851	0.672907	0.538749
Mean		0.69028929	0.66818986
Std.Err.		0.04566479	0.05341662

	Animal ID	Baseline	48Hrs Post Treatment
	2140	0.552865	0.625741
	2141	0.686588	0.642788
	2142	0.602073	0.640781
	2143	0.59212	0.692189
	2144	0.6493	0.722896
	2145	0.633875	0.512807
	2264	0.752619	0.708009
	2265	0.590641	0.637899
	2266	0.728073	0.695794
	2267	0.558408	0.787948
	2268	0.543718	0.746067
	2269	0.697181	0.737758
Mean		0.63228842	0.67922308
Std.Err.		0.01953942	0.02006272



		Lac/Pyr	
		Healthy	
	Animal ID	Baseline	48Hrs Post Treatment
	1707	0.54651236	0.65950922
	1708	0.57322682	0.50444405
	1711	0.53046259	0.32710159
	1712	0.81869171	0.75397085
	1796	0.21498618	0.20021936
	1852	0.44900681	0.57807742
Mean		0.52214774	0.50388708
Std.Err.		0.0728217	0.07741157

	Animal ID	Baseline	48Hrs Post Treatment
	1709	0.76901721	0.73432626
	1713	0.78388473	0.94522183
	1797	0.37753911	0.09723471
	1798	0.25981508	0.24068518

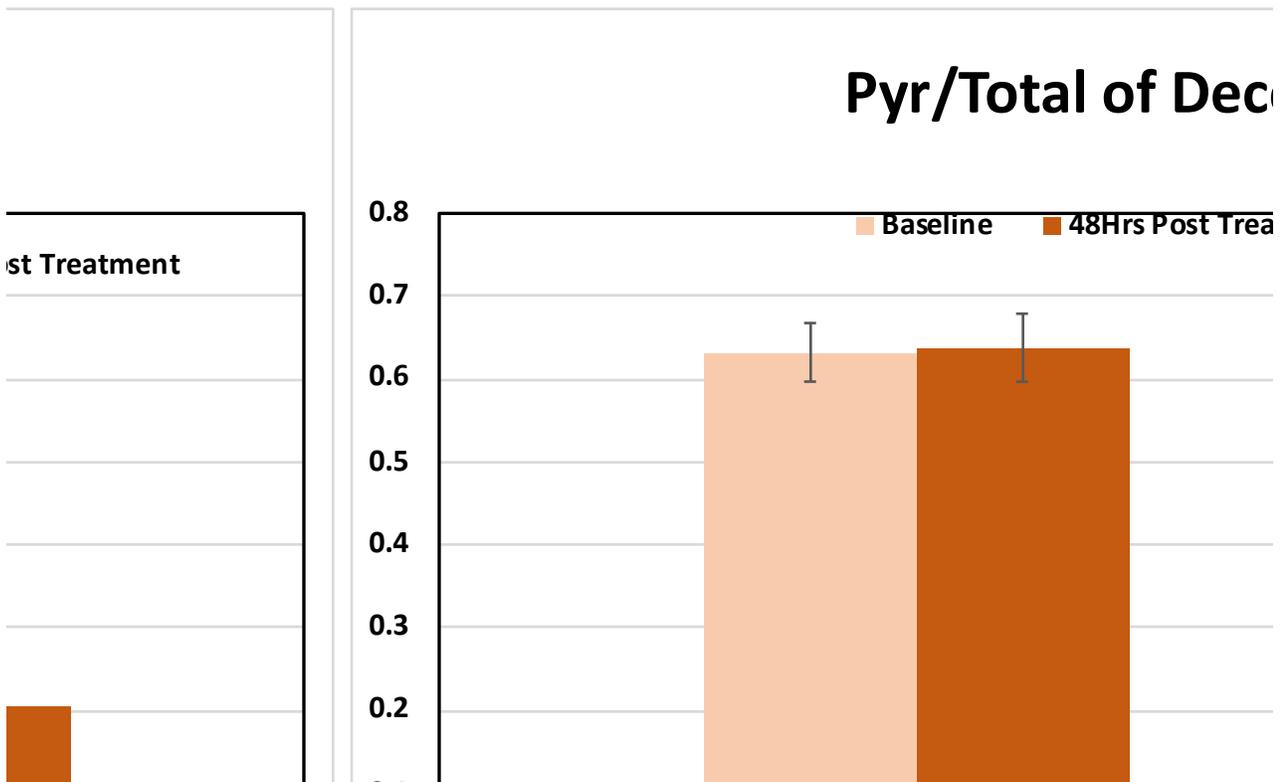
1799	0.12827132	0.33483349	
1849	0.22534854	0.3136789	
1851	0.42012789	0.75046821	
Mean	0.42342913	0.48806408	
Std.Err.	0.09086879	0.11123866	
Animal ID	Baseline	48Hrs Post Treatment	
2140	0.70691579	0.52593006	
2141	0.40107896	0.47326024	
2142	0.57908426	0.46887626	
2143	0.59483044	0.39719354	
2144	0.4692515	0.33396644	
2145	0.49540998	0.82126219	
2264	0.277968	0.3435945	
2265	0.61743767	0.520399	
2266	0.31029993	0.36814344	
2267	0.68678636	0.22476864	
2268	0.7293689	0.29657792	
2269	0.37948395	0.30226849	
Mean	0.52065965	0.42302006	
Std.Err.	0.04288151	0.0433883	

Lac/Pyr				
	Normal		Tumor	
	Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment
Mean	0.52214774	0.50388708	0.4580599	0.622629742
Std.Err.	0.0728217	0.07741157	0.07554987	0.120857322
Mean	0.42342913	0.48806408	0.38888021	0.505095145
Std.Err.	0.09086879	0.11123866	0.09182697	0.140104686
Mean	0.52065965	0.42302006	0.45948479	0.379848391
Std.Err.	0.04288151	0.0433883	0.04372569	0.02650897

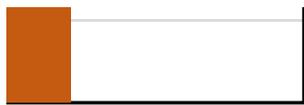
and then edited (ie empty cols are deleted and borders formatted, sign for stdev added)

Lac/Pyr			Lac/Bic			
Normal	Tumor		Normal		Tumor	
48Hrs Post Treatment	Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment
0.504±0.077	0.458±0.076	0.623±0.121	6.247±0.539	5.534±0.567	11.077±1.467	17.767±1.261

0.488±0.111	0.389±0.092	0.505±0.14	5.954±0.73	6.18±0.406	10.767±1.183	8.862±1.004
0.423±0.043	0.459±0.044	0.38±0.027	6.579±0.233	6.542±0.482	13.566±0.885	17.075±0.919



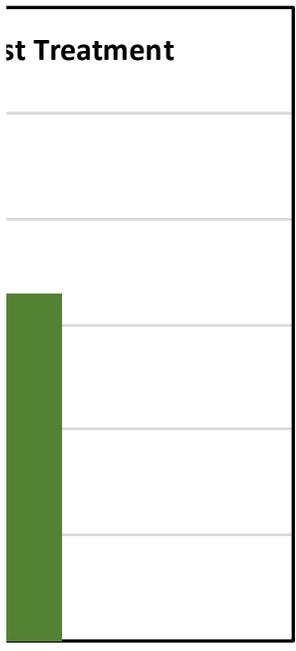
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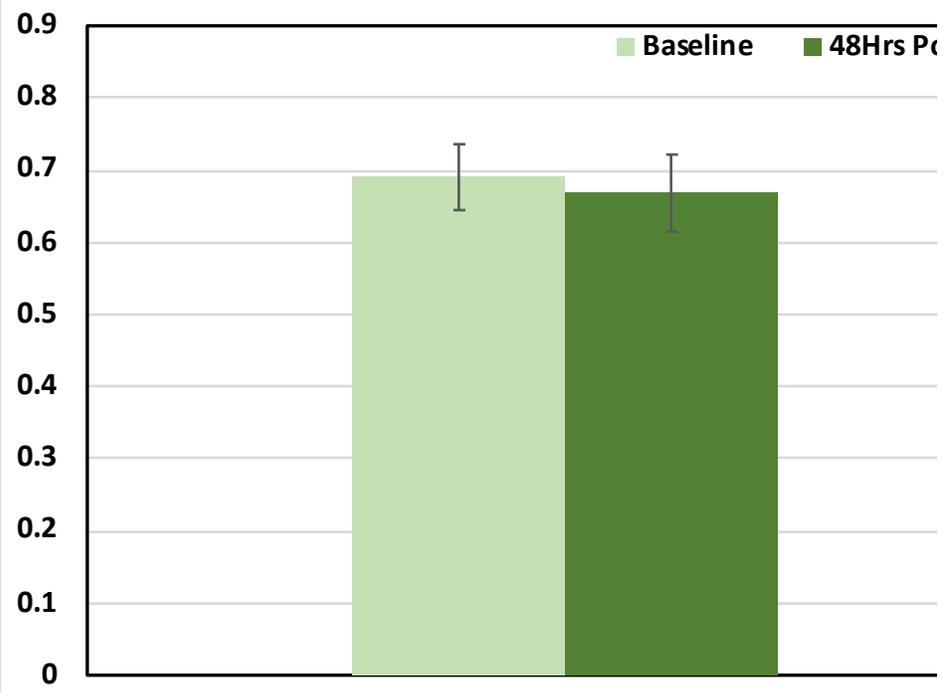


Normal Appearing Brain



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### Pyr/Total of Surv

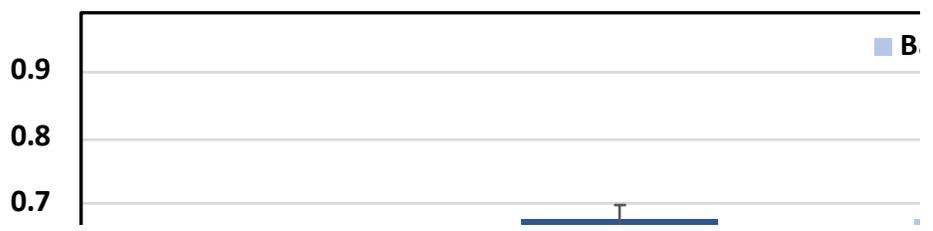


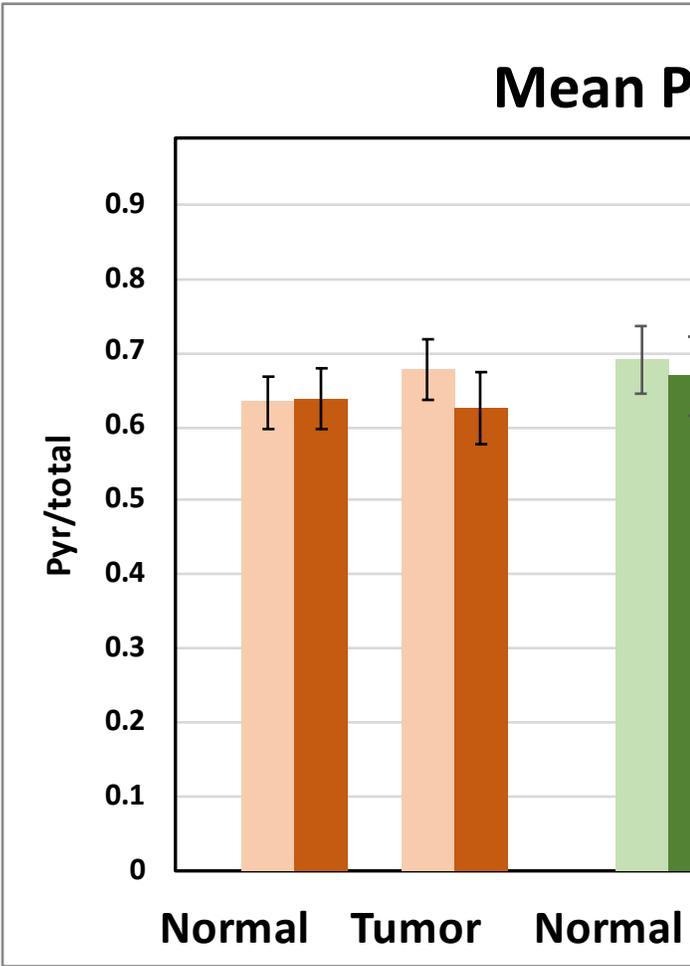
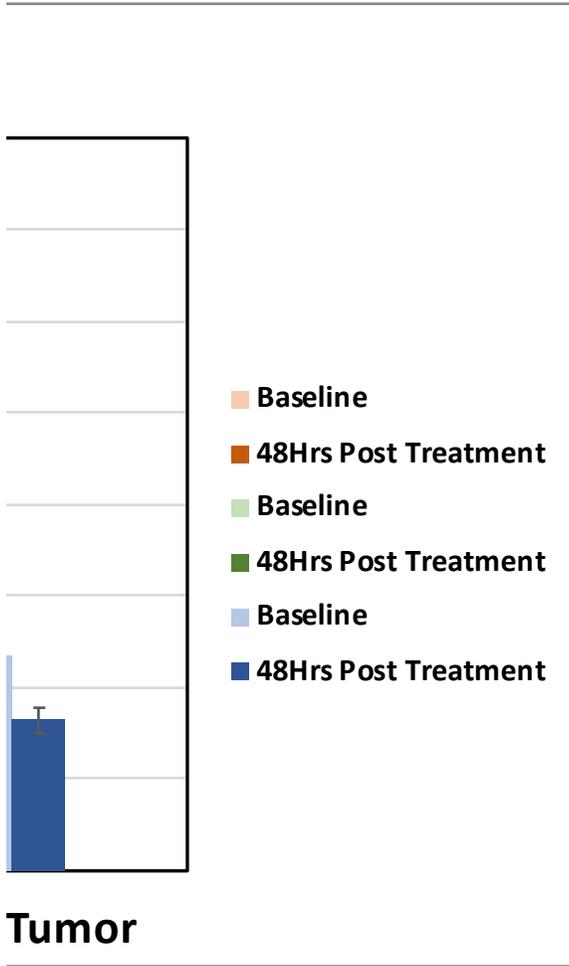
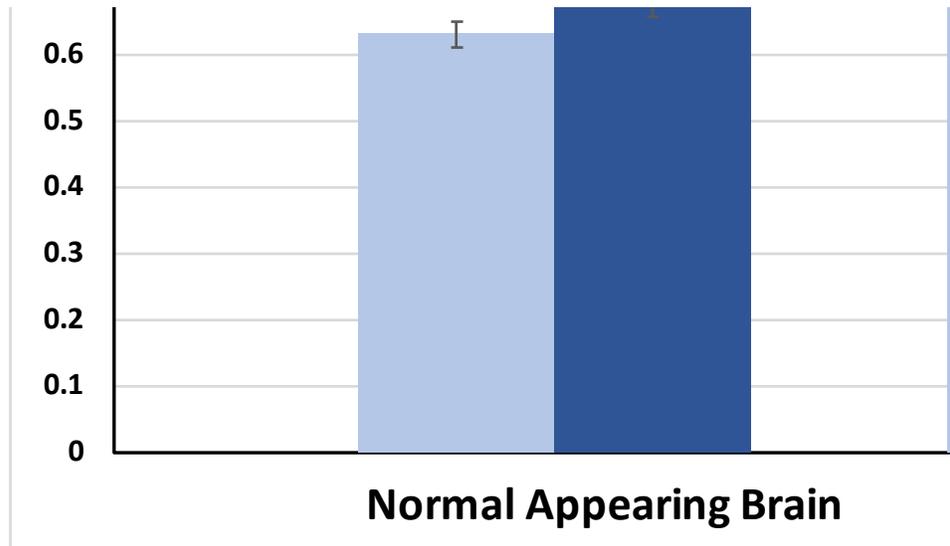
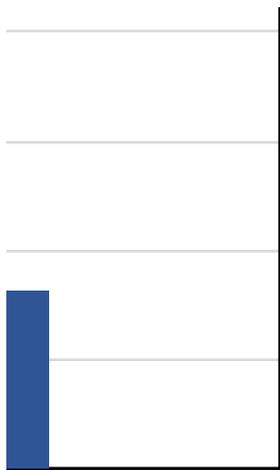
Normal Appearing Brain



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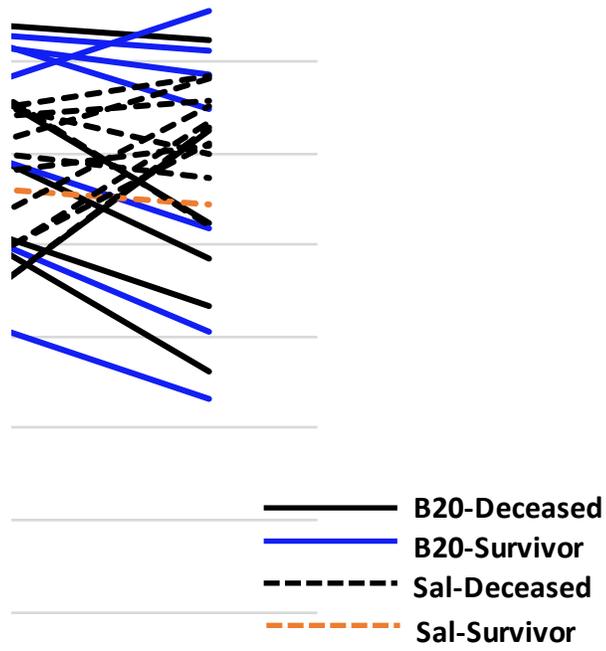
### Pyr/Total of Contro





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umor



ine 48Hrs Post Treatment

0.6

Healthy

0.5

0.4

0.3

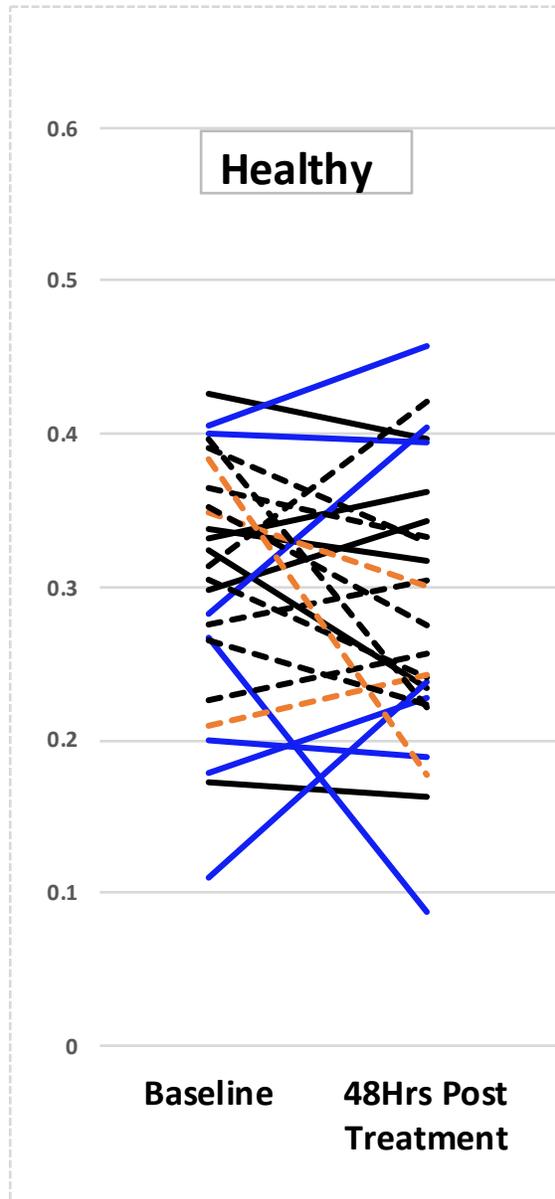
0.2

0.1

0

Baseline

48Hrs Post Treatment



Tumor		Hea	
Baseline	48Hrs Post Treatment	Animal ID	Baseline
0.612657	0.533327	1707	0.331733
0.551144	0.724618	1708	0.337896
0.695211	0.585057	1711	0.324354
0.600081	0.461969	1712	0.425926
0.839746	0.822174	1796	0.172248
0.764195	0.623208	1852	0.298264
0.67717233	0.62505883	Mean	0.31507017
0.04093253	0.04870062	Std.Err.	0.03066598
Baseline	48Hrs Post Treatment	Animal ID	Baseline
0.511506	0.432156	1709	0.400528
0.604682	0.505417	1713	0.406329
0.77575	0.853655	1797	0.266805
0.816524	0.785655	1798	0.199684

0.830214	0.810667
0.821007	0.748171
0.69549	0.618207
0.72216757	0.67913257
0.04335669	0.05692085
Baseline	48Hrs Post Treatment
0.71084	0.781314
0.740616	0.757017
0.661159	0.643579
0.700472	0.67434
0.748732	0.784077
0.769583	0.621174
0.753324	0.699045
0.677865	0.708092
0.629517	0.751052
0.585117	0.73358
0.589106	0.71122
0.551281	0.728315
0.67646767	0.71606708
0.02037181	0.0140972

1799	0.109859
1849	0.177624
1851	0.282707
Mean	0.26336229
Std.Err.	0.03902098
Animal ID	Baseline
2140	0.390829
2141	0.275376
2142	0.348651
2143	0.352211
2144	0.304685
2145	0.314028
2264	0.209204
2265	0.364684
2266	0.225921
2267	0.383507
2268	0.396571
2269	0.264569
Mean	0.31918633
Std.Err.	0.017721

Tumor				Hea	
Baseline	48Hrs Post Treatment			Animal ID	Baseline
0.56159972	0.82793296	0.56160214	0.82793108	1707	5.41456384
0.70587723	0.35405414	0.70587571	0.35405374	1708	4.65158795
0.40107392	0.66246195	0.40107327	0.66246224	1711	5.05299071
0.61100251	1.10671495	0.61100045	0.90357908	1712	7.91364821
0.17668557	0.20585424	0.17668531	0.2058545	1796	6.48851454
0.29212047	0.57876022	0.29212091	0.57876064	1852	7.96185961
0.4580599	0.62262974			Mean	6.24719414
0.07554987	0.12085732	0.07554972	0.10049178	Std.Err.	0.53853548
Baseline	48Hrs Post Treatment			Animal ID	Baseline
0.88470712	1.18478281	0.88470522	0.84403856	1709	5.09310641
0.59035989	0.91604754	0.59036059	0.91604452	1713	5.39488167
0.27361779	0.15521259	0.27361728	0.15521298	1797	10.0679232
0.20328857	0.242161	0.20328839	0.24216124	1798	6.2885072

0.18539678	0.20632393	0.18539633	0.2063234
0.19496545	0.28492951	0.19496484	0.28492951
0.38982588	0.54620863	0.38982555	0.54620931
0.38888021	0.50509514		
0.09182697	0.14010469		

1799	3.26158532
1849	5.20020728
1851	6.36924006

Mean	5.95363588
Std.Err.	0.72954745

Baseline	48Hrs Post Treatment
0.38353497	0.26685686
0.31600181	0.30141067
0.47202413	0.51367897
0.4049755	0.45785954
0.31503529	0.26126133
0.28058182	0.57247245
0.29824219	0.3997611
0.45061332	0.39542319
0.54449522	0.31422991
0.64710135	0.34018648
0.63665622	0.37951407
0.76455564	0.35552611
0.45948479	0.37984839
0.04372569	0.02650897

Animal ID	Baseline
2140	6.94112382
2141	7.23985898
2142	7.07542977
2143	6.32687851
2144	6.62141341
2145	6.02774435
2264	5.47981518
2265	8.16298939
2266	4.91070691
2267	6.60243399
2268	6.64152884
2269	6.91687277
Mean	6.57889966
Std.Err.	0.23277621

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Lac/Bic

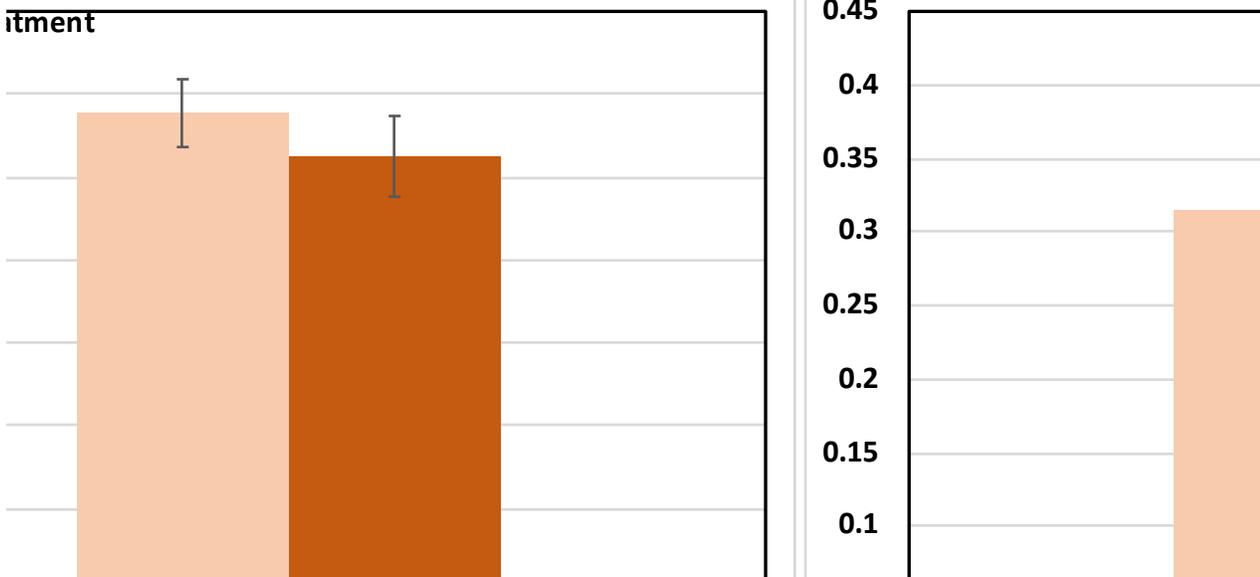
	Normal		Tun
	Baseline	48Hrs Post Treatment	Baseline
Mean	6.24719414	5.53373511	11.0774936
Std.Err.	0.53853548	0.56733904	1.46700519
Mean	5.95363588	6.18002696	10.7667495
Std.Err.	0.72954745	0.40586503	1.18325204
Mean	6.57889966	6.54209423	13.5661277
Std.Err.	0.23277621	0.4820968	0.885146

Bic/Pyr				Lac/Bic		
Normal		Tumor		Normal		Tur
Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment	Baseline
0.087±0.013	0.1±0.019	0.05±0.013	0.036±0.007	6.247±0.539	5.534±0.567	11.078±1.467

0.075±0.018	0.078±0.015	0.037±0.008	0.056±0.013	5.954±0.73	6.18±0.406	10.767±1.183
0.079±0.006	0.067±0.007	0.036±0.004	0.023±0.002	6.579±0.233	6.542±0.482	13.566±0.885

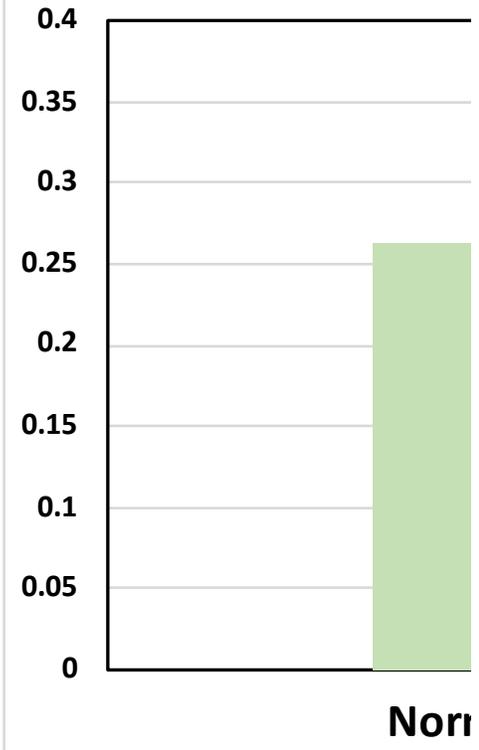
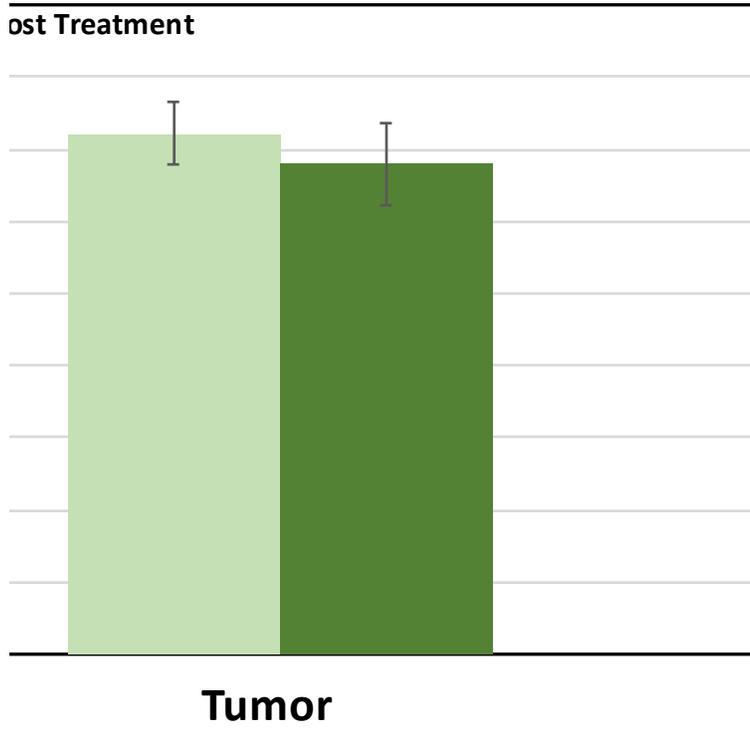
## eased (N=6)

itment

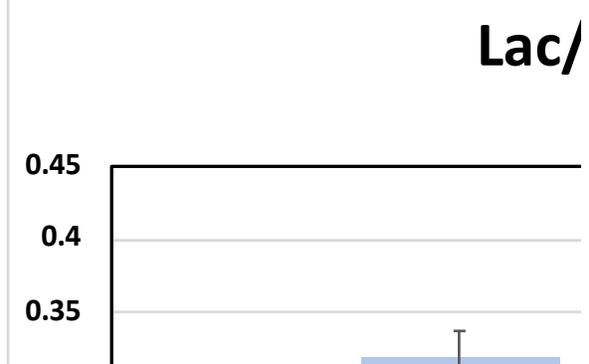
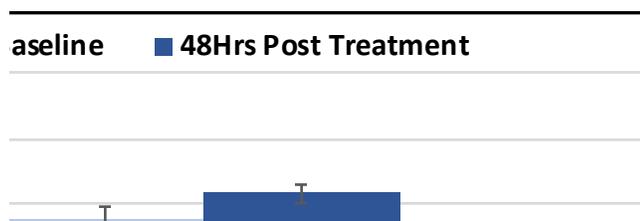


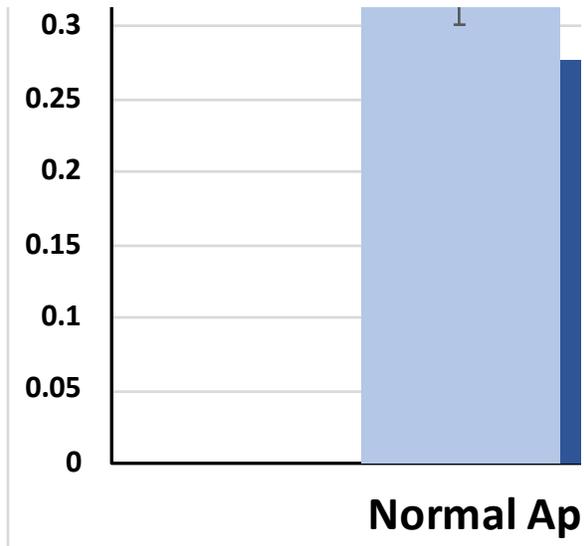
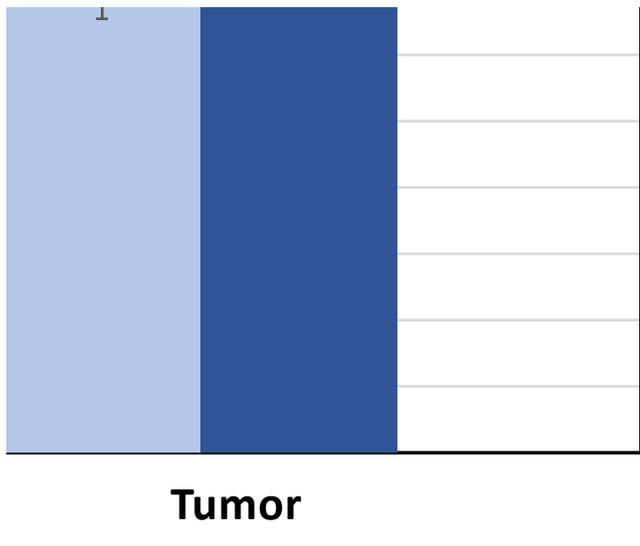


### Markers (N=7)

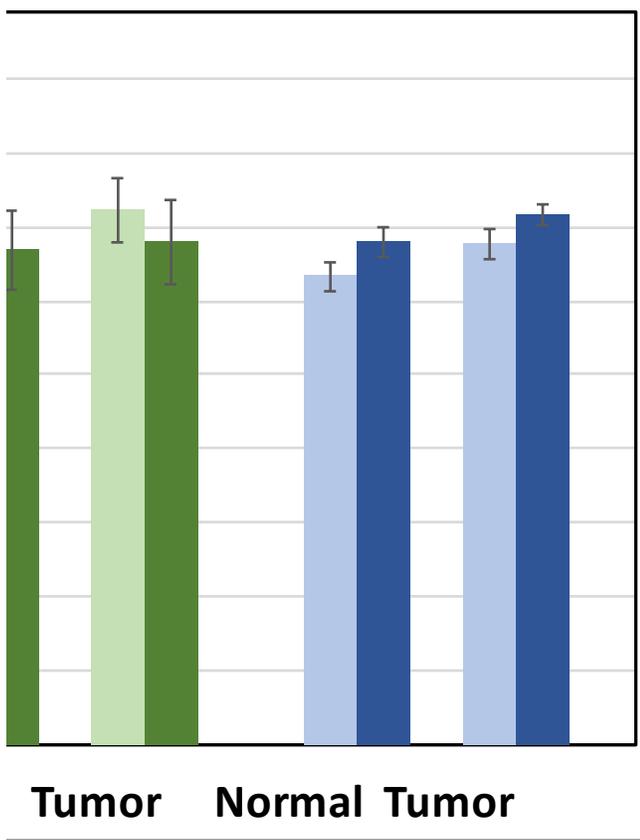


### Markers (N=12)

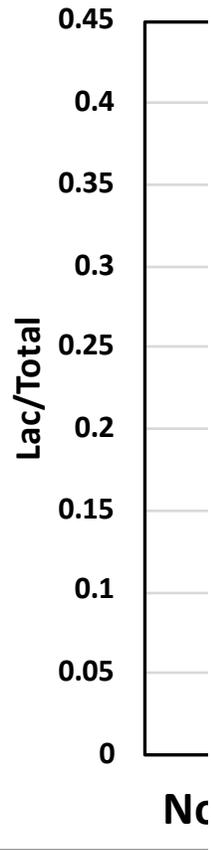




**yr/Total**

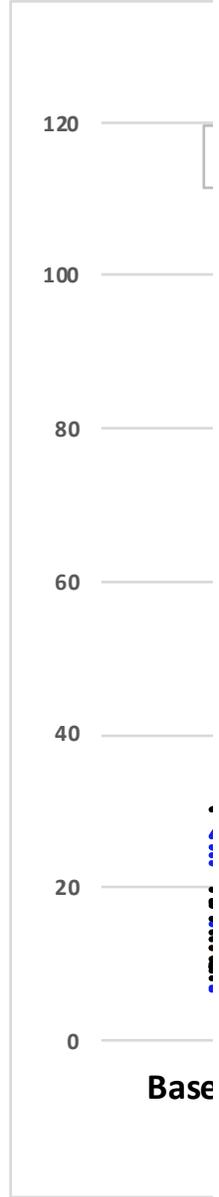
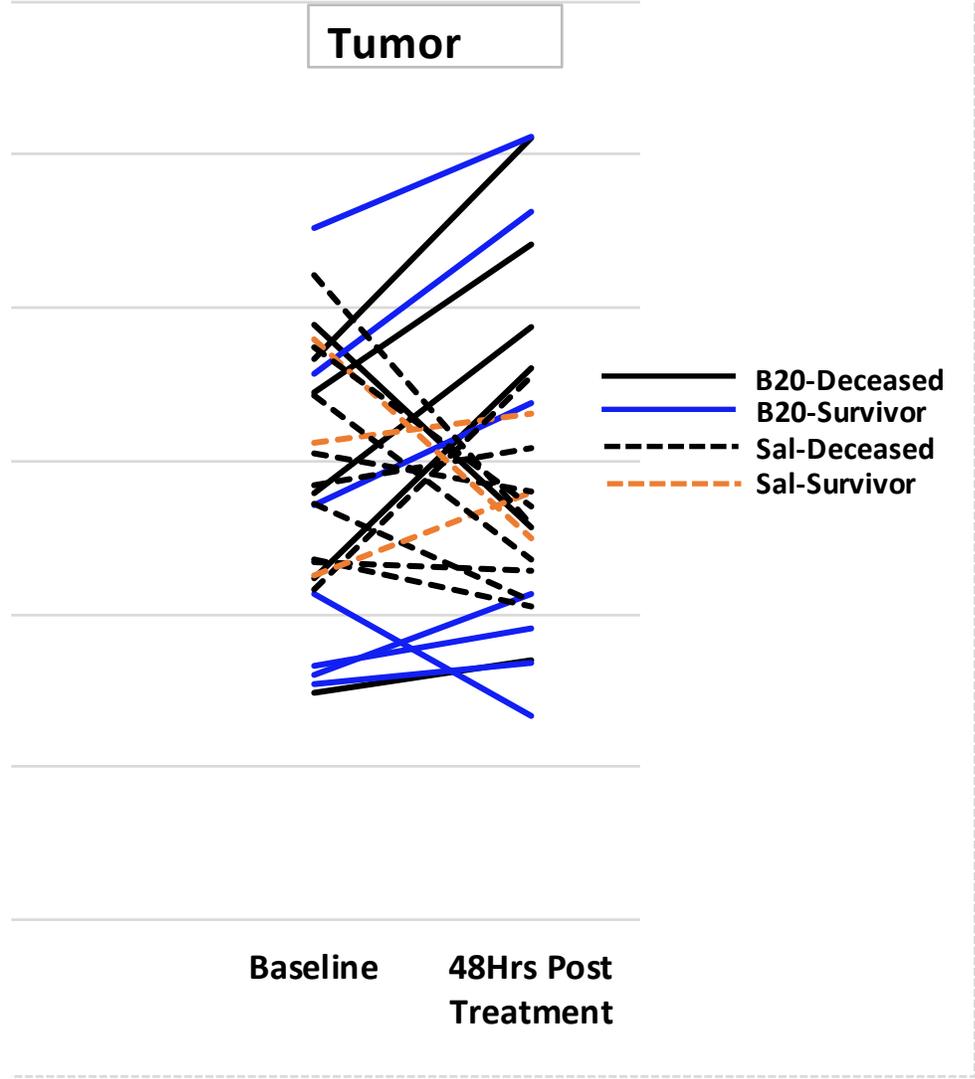


- Baseline
- 48Hrs Post Treatment
- Baseline
- 48Hrs Post Treatment
- Baseline
- 48Hrs Post Treatment



# Lac/Total Carbon

Tumor



Sum of Good SNR Frames

Lac/Total			
lthy		Tumor	
48Hrs Post Treatment		Baseline	48Hrs Post Treatment
0.361324		0.344068	0.441559
0.316579		0.38904	0.256554
0.233876		0.278831	0.387578
0.396557		0.366651	0.511268
0.16356		0.148371	0.169248
0.343404		0.223237	0.360688
0.30255		0.29169967	0.3544825
0.03257125		0.0346535	0.04630804
48Hrs Post Treatment		Baseline	48Hrs Post Treatment
0.39453		0.452533	0.512011
0.456838		0.35698	0.462986
0.087474		0.212259	0.132498
0.188437		0.16599	0.190255

0.237855		0.153919	0.16726
0.227447		0.160068	0.213176
0.404314		0.27112	0.33767
0.28527071		0.253267	0.28797943
0.04730198		0.04006043	0.05291114
48Hrs Post Treatment		Baseline	48Hrs Post Treatment
0.329096		0.272632	0.208499
0.304206		0.234036	0.228173
0.300447		0.312083	0.330593
0.274933		0.283674	0.308753
0.241423		0.235877	0.204849
0.421149		0.215931	0.355605
0.243268		0.224673	0.279451
0.331962		0.305455	0.279996
0.256152		0.342769	0.236003
0.177106		0.37863	0.249554
0.221267		0.375058	0.269918
0.223001		0.421485	0.258935
0.27700083		0.30019192	0.26752742
0.01799827		0.01878234	0.01293418

Sum of Good SNR Frames				
Lac/Bic		Tumor		Ratio of Post Treatment/baseline
lthy		Baseline	48Hrs Post Treatment	
48Hrs Post Treatment		Baseline	48Hrs Post Treatment	
3.97897549		7.9507888	17.5822552	2.21138502
5.66923226		6.50397805	13.6259055	2.095010997
4.57426959		10.7413728	14.1635848	1.318600989
5.11784186		11.0210983	19.1031816	1.733328301
8.37210731		12.4856732	19.7317615	1.580352231
5.48998417		17.7620503	22.3972777	1.260962411
5.53373511		11.0774936	17.7673277	1.699939992
0.56733904		1.46700519	1.26109008	0.146362742
48Hrs Post Treatment		Baseline	48Hrs Post Treatment	
5.78470228		12.5838888	9.17048314	0.728747949
7.63327886		9.31146104	14.652754	1.573625661
6.77615016		17.7012309	9.5692681	0.540599021
6.57856243		9.49246562	7.89777374	0.832004461

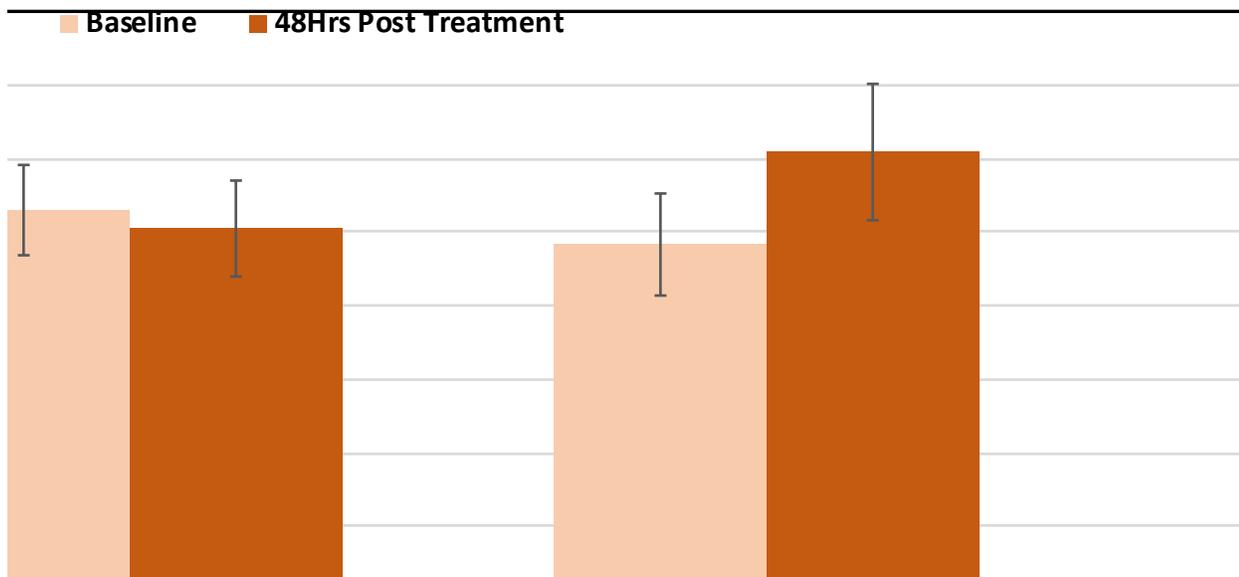
4.59379961	9.70032898	7.57748049	0.781157062
4.79265615	8.45792911	5.51515026	0.652068632
7.10103921	8.11994226	7.65280337	0.942470171
6.18002696	10.7667495	8.86224473	
0.40586503	1.18325204	1.0037837	
48Hrs Post Treatment	Baseline	48Hrs Post Treatment	
7.28683372	16.4944611	20.4667622	
5.73905366	9.23280851	15.407621	
5.11212067	11.6633405	12.7997414	
8.36219246	17.8928977	18.2616282	
6.76611213	15.3255453	18.4990292	
6.37673633	14.9062882	15.3137421	
4.99282687	10.210599	12.9954845	
11.0142937	18.3131988	23.5049781	
5.33051428	12.3680811	18.2309273	
5.06800512	10.444274	14.7957502	
6.77355562	10.4658392	14.3096922	
5.68288618	15.4761992	20.3091053	
6.54209423	13.5661277	17.0745385	
0.4820968	0.885146	0.91940723	

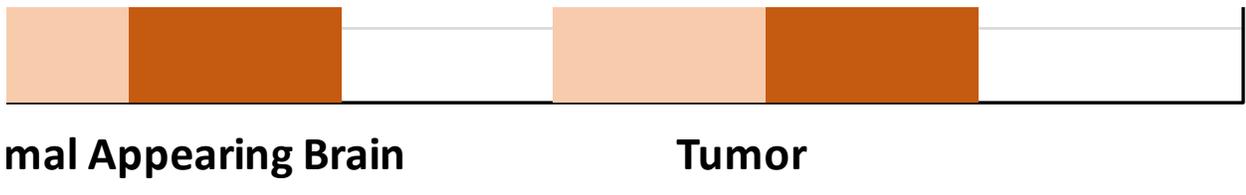
			Bic
nor			
48Hrs Post Treatment			
17.7673277	Mean	0.08702121	0.10046169
1.26109008	Std.Err.	0.01284441	0.01922898
8.86224473	Mean	0.07481897	0.07796135
1.0037837	Std.Err.	0.01785124	0.01512681
17.0745385	Mean	0.07870146	0.06653817
0.91940723	Std.Err.	0.00565614	0.00698428

	Lac/Pyr			
nor	Normal		Tumor	
48Hrs Post Treatment	Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment
17.767±1.261	0.522±0.073	0.504±0.077	0.458±0.076	0.623±0.121

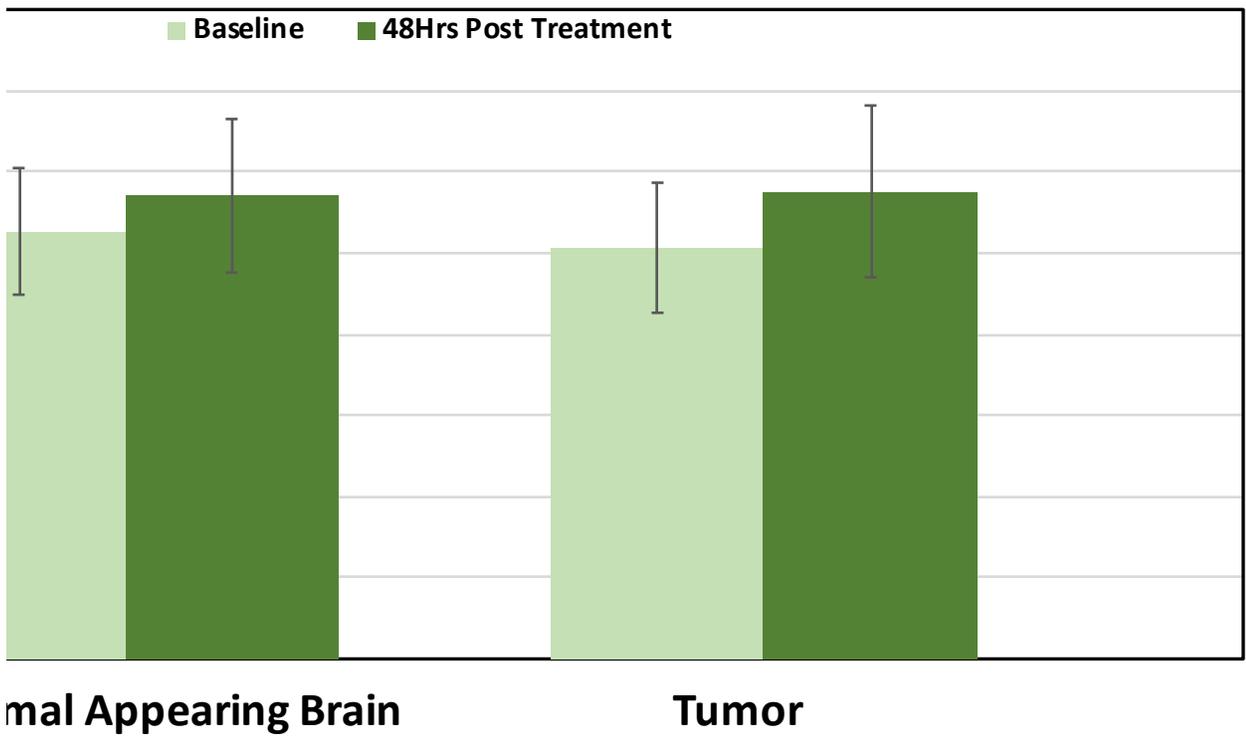
8.862±1.004	0.423±0.091	0.488±0.111	0.389±0.092	0.505±0.14
17.075±0.919	0.521±0.043	0.423±0.043	0.459±0.044	0.38±0.027

## Lac/Total of Deceased (N=6)



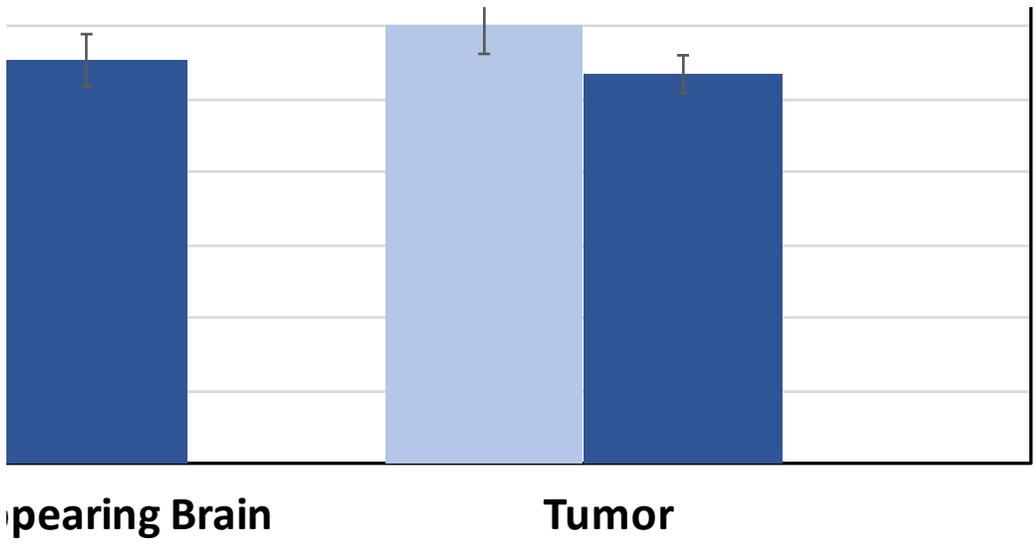


## Lac/Total of Survivors (N=7)

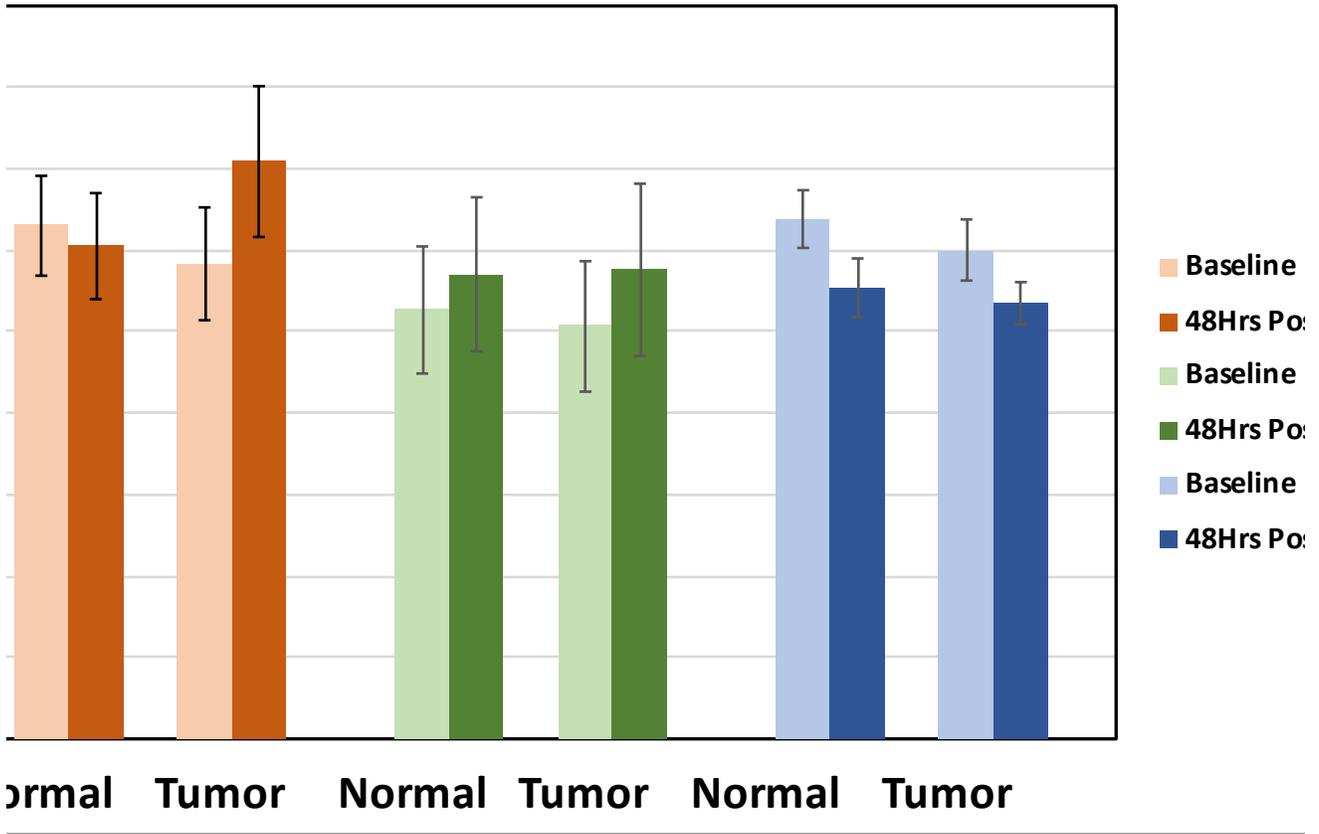


## 'Total of Controls (N=12)





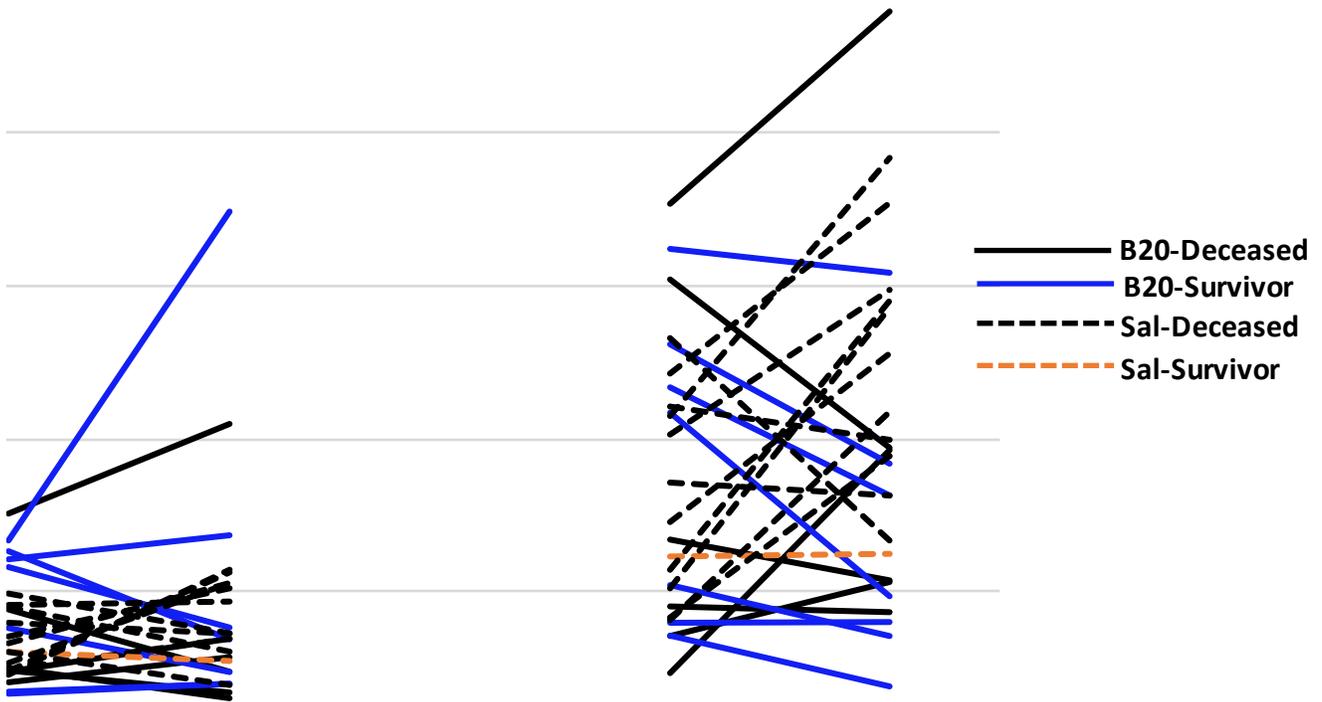
### Mean Lac/Total



# Pyr/Bic

Healthy

Tumor



Baseline

48Hrs Post Treatment

Baseline

48Hrs Post Treatment



1799	25.4272	13.7197		52.3221	36.7261
1849	23.0763	15.2789		43.3816	19.3562
1851	15.1603	9.46214		20.8297	14.0108
Mean	18.2914157	21.6335957		36.8453571	26.87079
Std.Err.	3.04742354	7.7800952		6.95035898	6.46180932
Animal ID	Baseline	48Hrs Post Treatment		Baseline	48Hrs Post Treatment
2140	9.81888	13.8551		43.0065	76.6953
2141	18.0509	12.1266		29.2176	51.1185
2142	12.2183	10.9029		24.7092	24.9178
2143	10.6364	21.0532		44.1826	39.8848
2144	14.1106	20.2599		48.647	70.8067
2145	12.1672	7.76455		53.1264	26.7501
2264	19.7138	14.5312		34.2359	32.5081
2265	13.2208	21.1651		40.6406	59.4425
2266	15.8257	14.4795		22.7148	58.0179
2267	9.61352	22.5477		16.1401	43.493
2268	9.10586	22.839		16.4388	37.7054
2269	18.227	18.8008		20.2421	57.124
Mean	13.55908	16.6937958		32.7751333	48.2053417
Std.Err.	1.01059479	1.39430529		3.57897356	4.62767554

Bic/Pyr					
		Healthy		Tumor	
Animal ID	Baseline	48Hrs Post Treatment		Baseline	48Hrs Post Treatment
1707	0.10093384	0.16574842		0.07063444	0.04708918
1708	0.12323254	0.08897905		0.10853003	0.02598395
1711	0.10497982	0.07150876		0.03733921	0.04677225
1712	0.10345316	0.14732205		0.05543913	0.0579334
1796	0.03313332	0.02391509		0.01415106	0.01043263
1852	0.05639458	0.10529674		0.01644626	0.02584059
Mean	0.08702121	0.10046169		0.05042335	0.03567533
Std.Err.	0.01284441	0.01922898		0.01338671	0.0066179
Animal ID	Baseline	48Hrs Post Treatment		Baseline	48Hrs Post Treatment
1709	0.15099194	0.1269427		0.0703047	0.12919513
1713	0.14530153	0.12382889		0.06340149	0.06251719
1797	0.03749925	0.01434955		0.01545755	0.01621986
1798	0.04131583	0.03658635		0.0214158	0.03066187

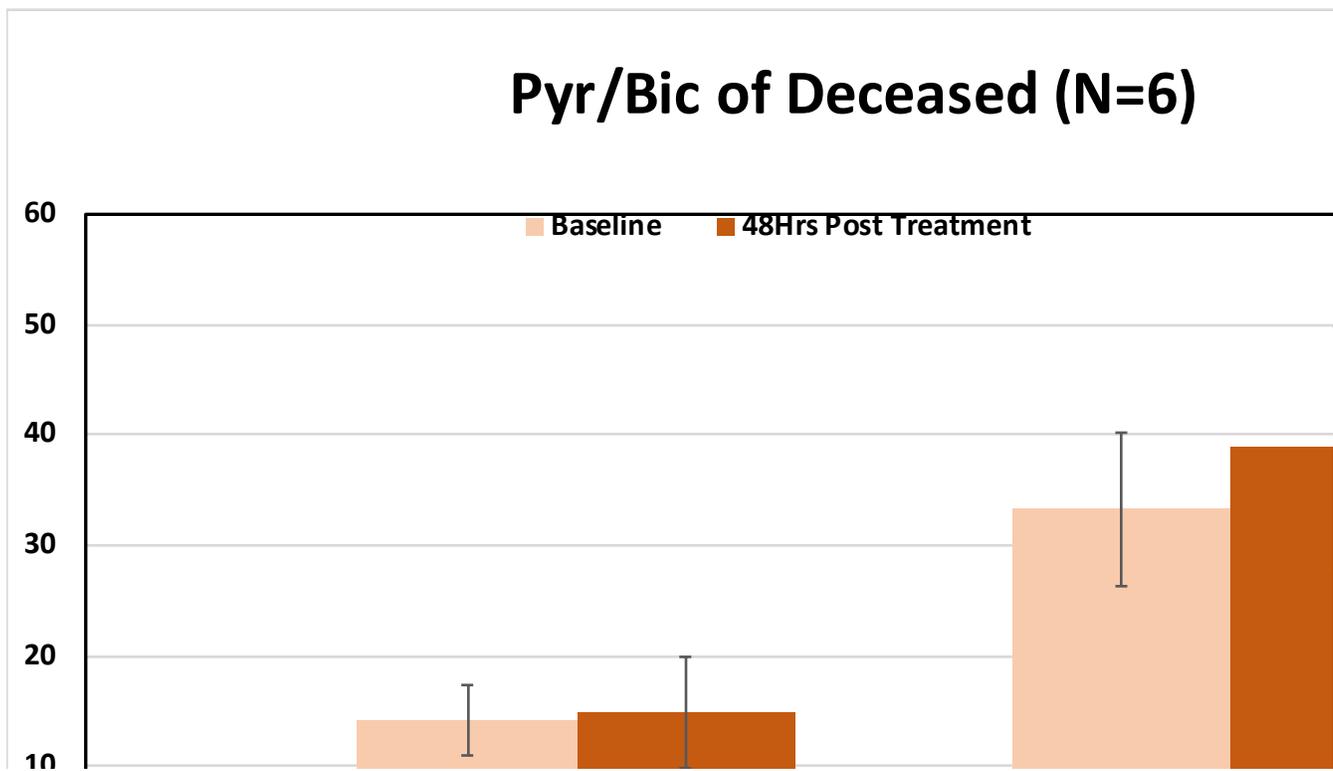
1799	0.03932796	0.07288789		0.01911238	0.02722859
1849	0.0433345	0.06544974		0.02305125	0.05166303
1851	0.06596176	0.10568434		0.04800837	0.07137351
Mean	0.07481897	0.07796135		0.03725022	0.05555131
Std.Err.	0.01785124	0.01512681		0.00801589	0.01332944
Animal ID	Baseline	48Hrs Post Treatment		Baseline	48Hrs Post Treatment
2140	0.10184461	0.07217559		0.0232523	0.01303861
2141	0.0553989	0.08246335		0.03422595	0.01956239
2142	0.08184445	0.09171872		0.04047076	0.04013195
2143	0.09401677	0.04749872		0.02263334	0.02507221
2144	0.07086871	0.04935859		0.02055625	0.01412296
2145	0.08218818	0.12879046		0.01882303	0.03738304
2264	0.05072589	0.06881744		0.02920911	0.03076156
2265	0.07563839	0.04724759		0.02460594	0.01682298
2266	0.06318836	0.06906316		0.04402416	0.01723606
2267	0.10402017	0.04435042		0.06195748	0.02299221
2268	0.10981939	0.04378475		0.06083169	0.0265214
2269	0.05486366	0.05318923		0.04940199	0.01750578
Mean	0.07870146	0.06653817		0.03583267	0.02342926
Std.Err.	0.00565614	0.00698428		0.00425561	0.00245305

/Pyr

Tumor			Normal
Baseline	48Hrs Post Treatment		Baseline
0.05042335	0.03567533	Mean	6.2472
0.01338671	0.0066179	Std.Err.	0.53853412
0.03725022	0.05555131	Mean	5.95363429
0.00801589	0.01332944	Std.Err.	0.72954485
0.03583267	0.02342926	Mean	6.57889667
0.00425561	0.00245305	Std.Err.	0.23277733

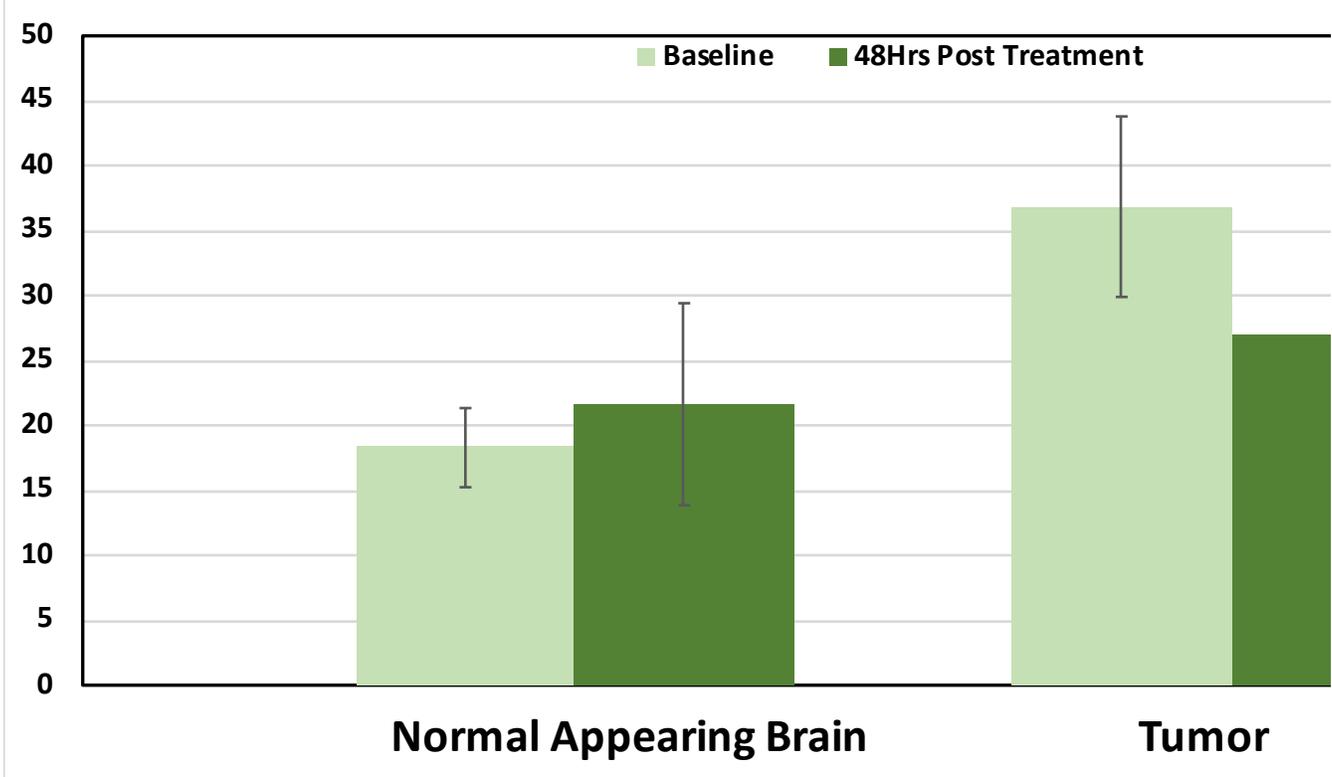
Tumor Vol (mm <sup>3</sup> )		
	Baseline	48Hrs Post Treatment
Deceased (N=6)	136.8±24.4	217.2±31.9

	<b>Survivors (N=7)</b>	<b>141.6±21.6</b>	<b>152.8±29</b>
	<b>Controls (N=12)</b>	<b>129.5±22.9</b>	<b>168±33.1</b>



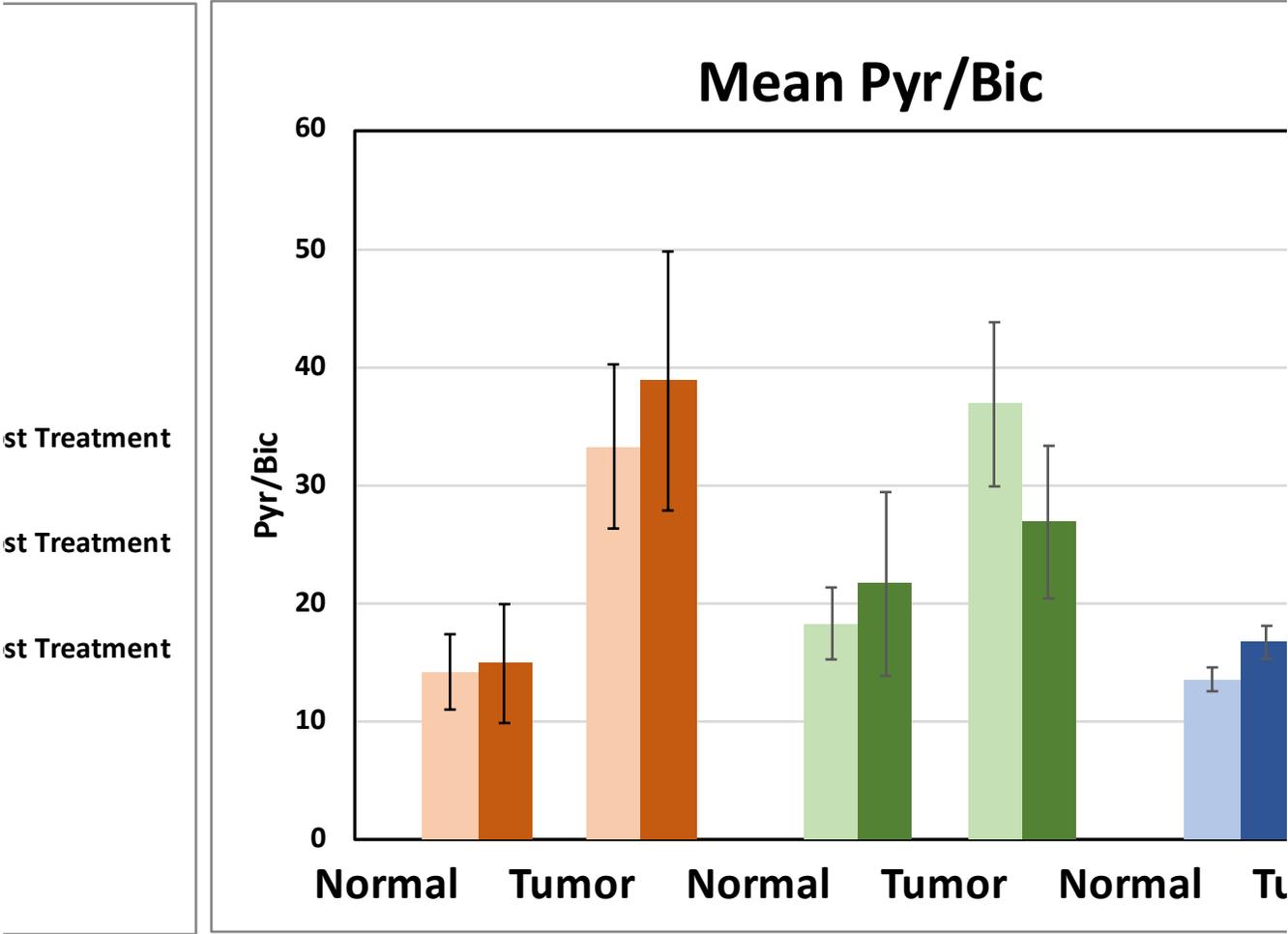
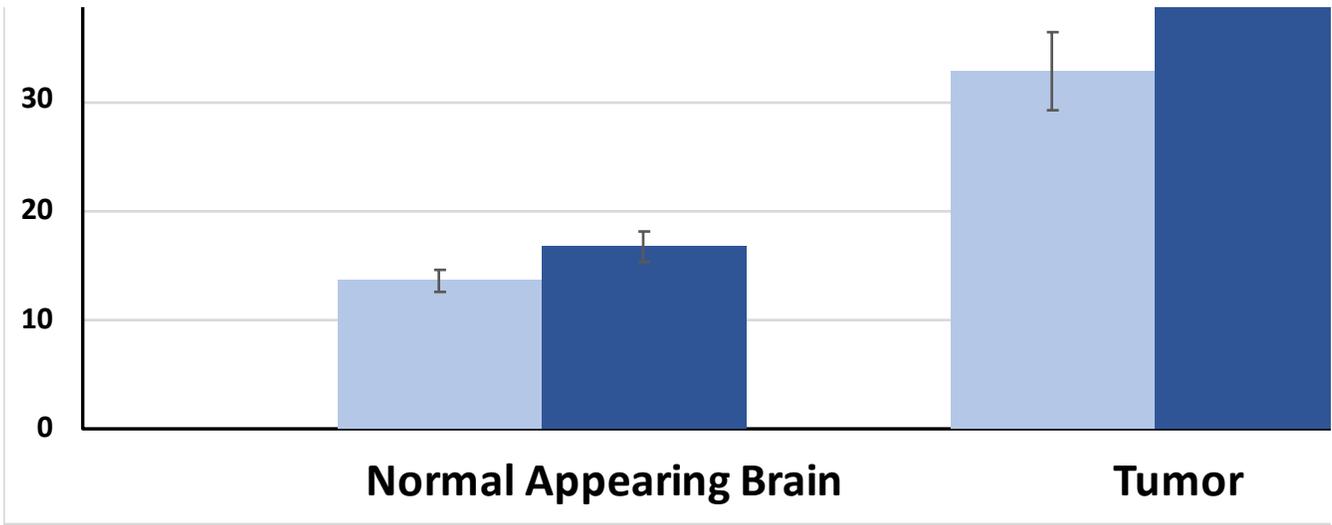


### Pyr/Bic of Survivors (N=7)

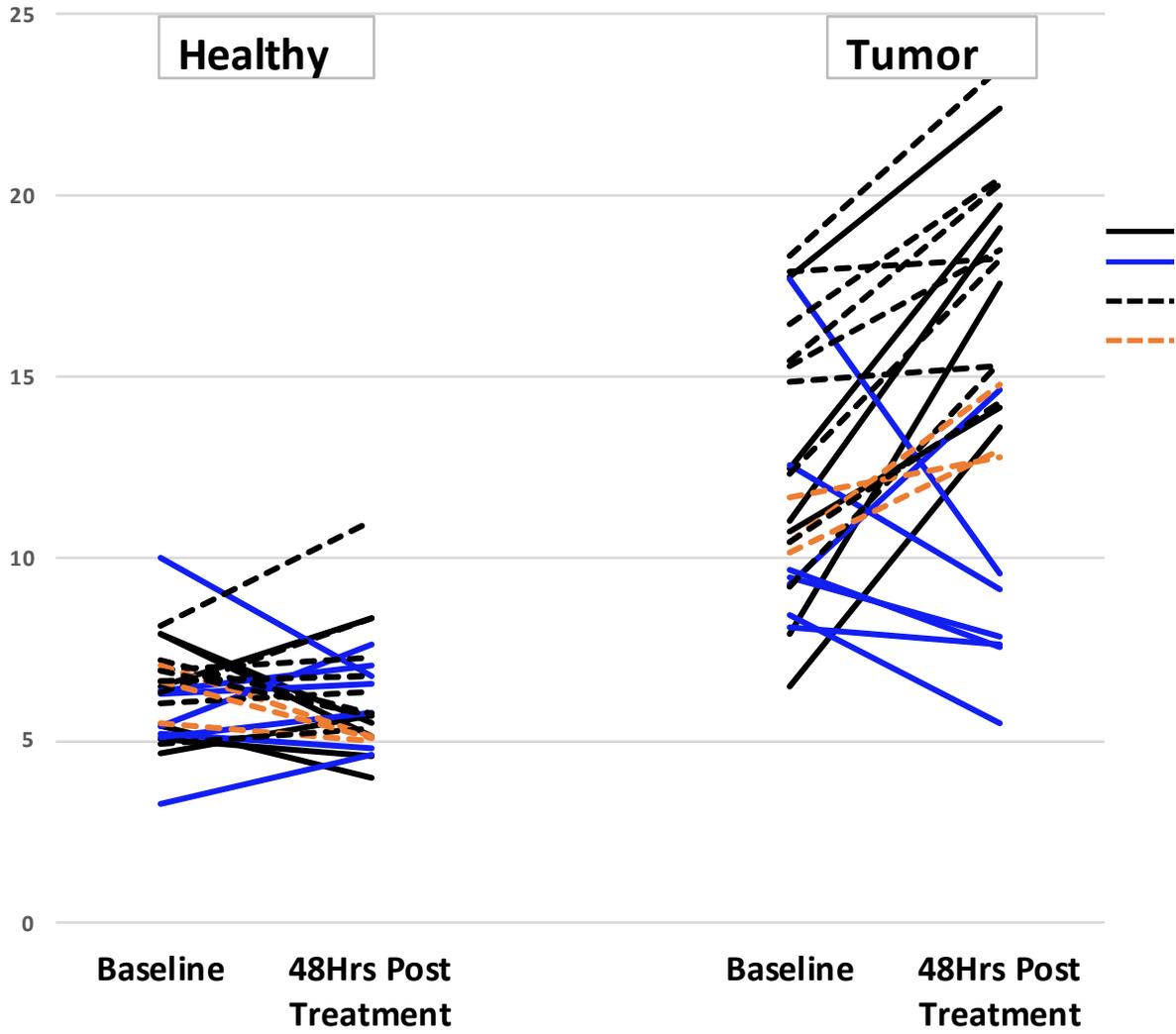


### Pyr/Bic of Controls (N=12)





# Lac/Bic





Lac/Bic				
		Healthy		Tun
Animal ID	Baseline	48Hrs Post Treatment		Baseline
1707	5.41457	3.97897		7.95079
1708	4.65159	5.66922		6.50397
1711	5.053	4.57428		10.7414
1712	7.91364	5.11783		11.0211
1796	6.48854	8.37209		12.4857
1852	7.96186	5.48998		17.7621
Mean	6.2472	5.53372833		11.07751
Std.Err.	0.53853412	0.56733673		1.46701265
Animal ID	Baseline	48Hrs Post Treatment		Baseline
1709	5.09311	5.7847		12.5839
1713	5.39488	7.63328		9.31147
1797	10.0679	6.77615		17.7012
1798	6.28852	6.57857		9.49246

	1799	3.26158	4.5938		9.70033
	1849	5.20022	4.79267		8.45789
	1851	6.36923	7.10104		8.11994
Mean		5.95363429	6.18003		10.7667414
Std.Err.		0.72954485	0.40586434		1.18325024
<b>Animal ID</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>		<b>Baseline</b>
	2140	6.94113	7.28684		16.4945
	2141	7.23986	5.73906		9.2328
	2142	7.07542	5.11212		11.6634
	2143	6.32687	8.36219		17.8929
	2144	6.62141	6.76611		15.3255
	2145	6.02775	6.37672		14.9063
	2264	5.4798	4.99282		10.2106
	2265	8.163	11.0143		18.3132
	2266	4.9107	5.33052		12.3681
	2267	6.60243	5.06801		10.4443
	2268	6.64153	6.77355		10.4658
	2269	6.91686	5.6829		15.4762
Mean		6.57889667	6.542095		13.5661333
Std.Err.		0.23277733	0.48209694		0.88514604

Lac/Bic					
Healthy					
Tun					
<b>Animal ID</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>		<b>Baseline</b>
	1707	5.41457	3.97897		7.95079
	1708	4.65159	5.66922		6.50397
	1711	5.053	4.57428		10.7414
	1712	7.91364	5.11783		11.0211
	1796	6.48854	8.37209		12.4857
	1852	7.96186	5.48998		17.7621
Mean		6.2472	5.53372833		11.07751
Std.Err.		0.53853412	0.56733673		1.46701265
<b>Animal ID</b>		<b>Baseline</b>	<b>48Hrs Post Treatment</b>		<b>Baseline</b>
	1709	5.09311	5.7847		12.5839
	1713	5.39488	7.63328		9.31147
	1797	10.0679	6.77615		17.7012
	1798	6.28852	6.57857		9.49246

1799	3.26158	4.5938		9.70033
1849	5.20022	4.79267		8.45789
1851	6.36923	7.10104		8.11994
Mean	5.95363429	6.18003		10.7667414
Std.Err.	0.72954485	0.40586434		1.18325024
Animal ID	Baseline	48Hrs Post Treatment		Baseline
2140	6.94113	7.28684		16.4945
2141	7.23986	5.73906		9.2328
2142	7.07542	5.11212		11.6634
2143	6.32687	8.36219		17.8929
2144	6.62141	6.76611		15.3255
2145	6.02775	6.37672		14.9063
2264	5.4798	4.99282		10.2106
2265	8.163	11.0143		18.3132
2266	4.9107	5.33052		12.3681
2267	6.60243	5.06801		10.4443
2268	6.64153	6.77355		10.4658
2269	6.91686	5.6829		15.4762
Mean	6.57889667	6.542095		13.5661333
Std.Err.	0.23277733	0.48209694		0.88514604

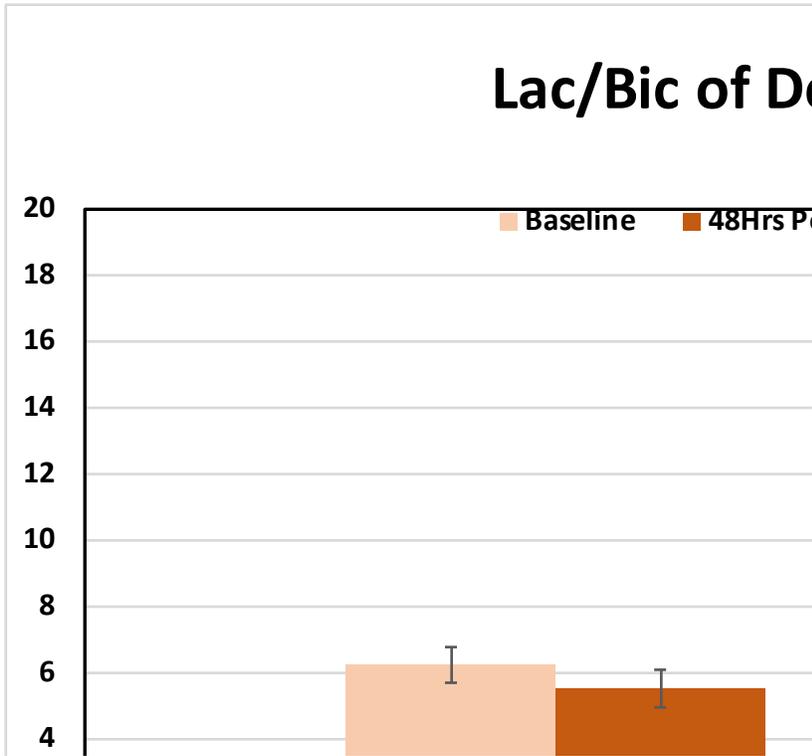
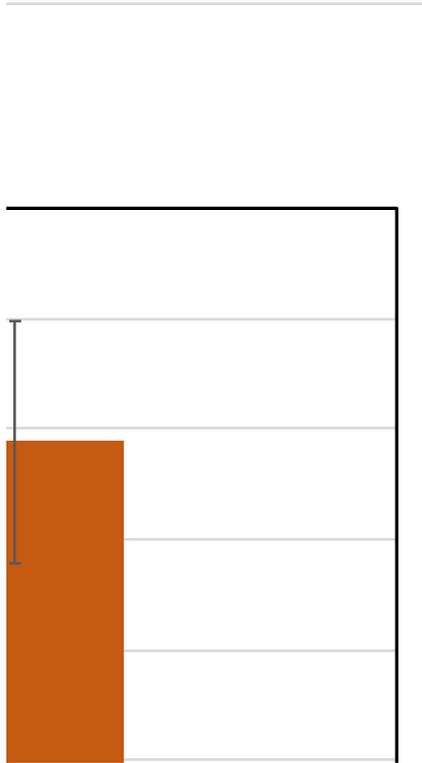
Lac/Bic		
mal	Tumor	
48Hrs Post Treatment	Baseline	48Hrs Post Treatment
5.53372833	11.07751	17.76735
0.56733673	1.46701265	1.26109368
6.18003	10.7667414	8.86225571
0.40586434	1.18325024	1.00379032
6.542095	13.5661333	17.0745417
0.48209694	0.88514604	0.91940717

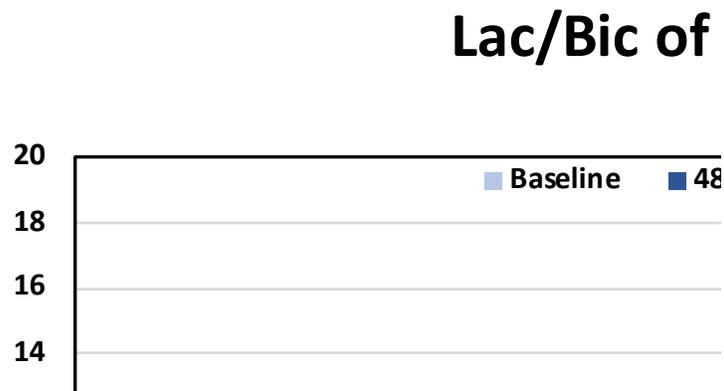
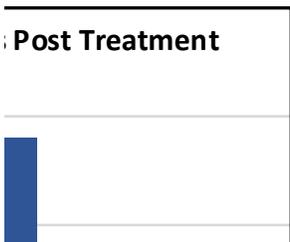
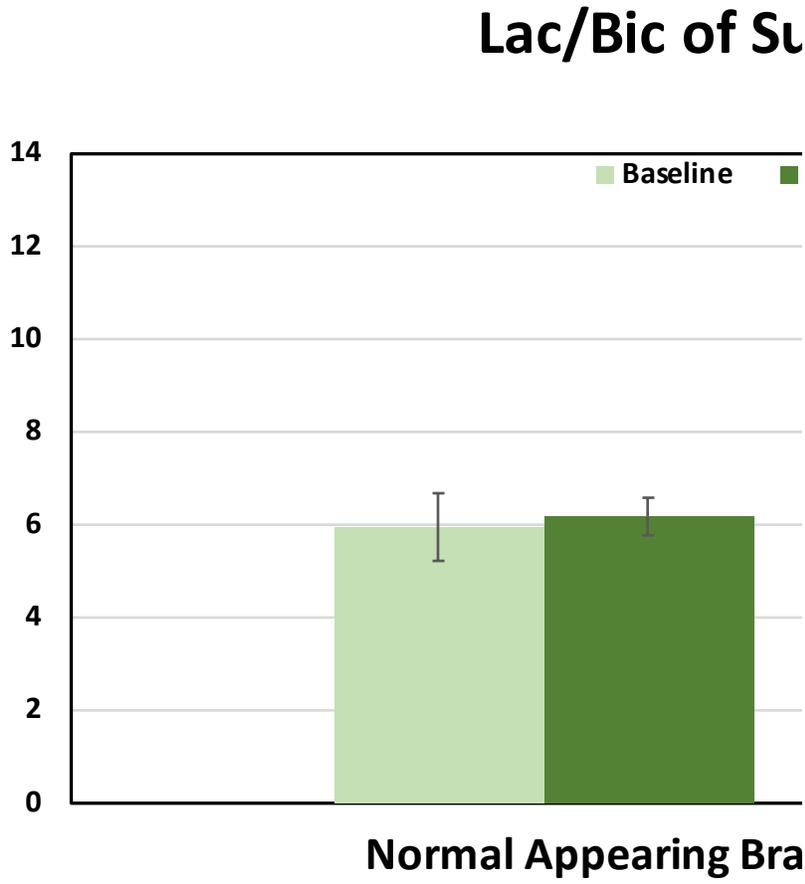
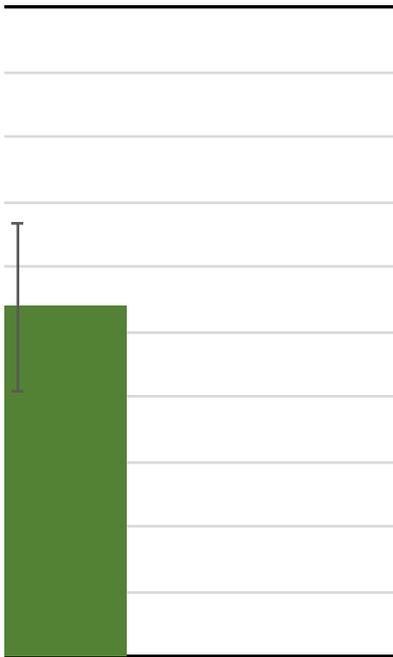
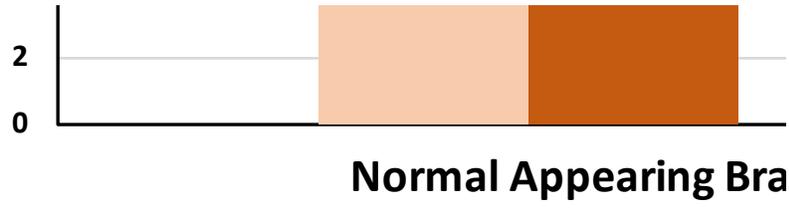
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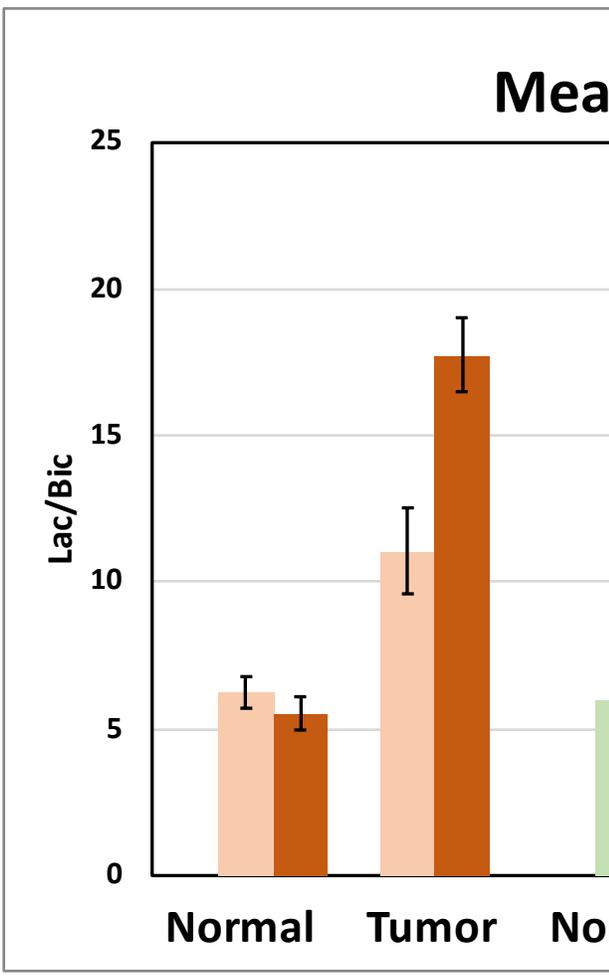
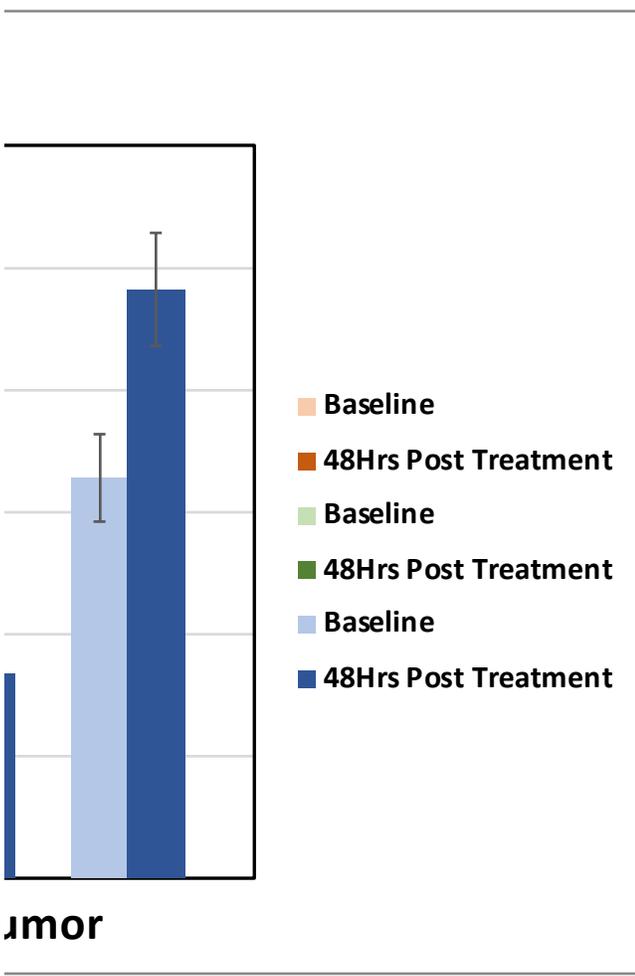
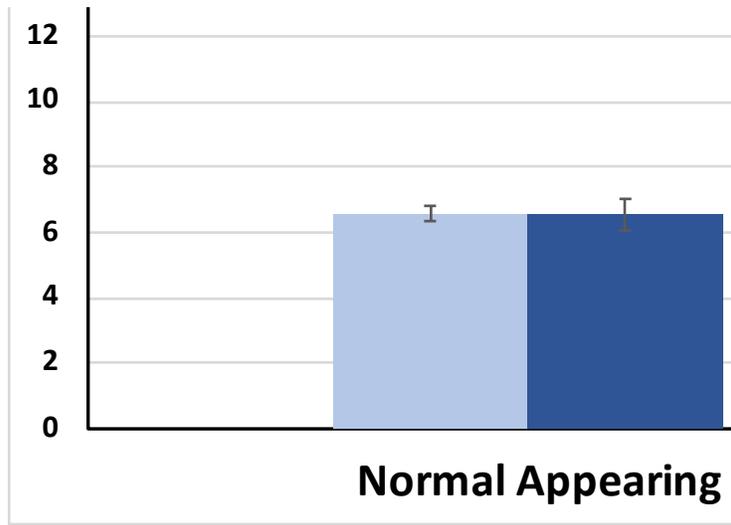
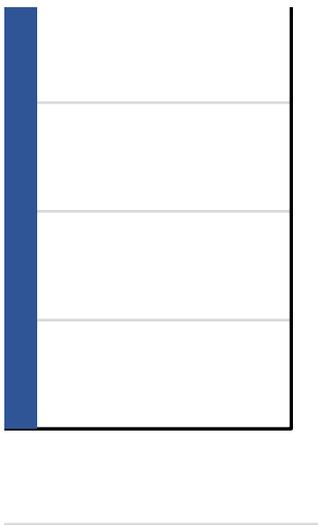


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Mean  
Std.Err.  
Mean  
Std.Err.  
Mean  
Std.Err.





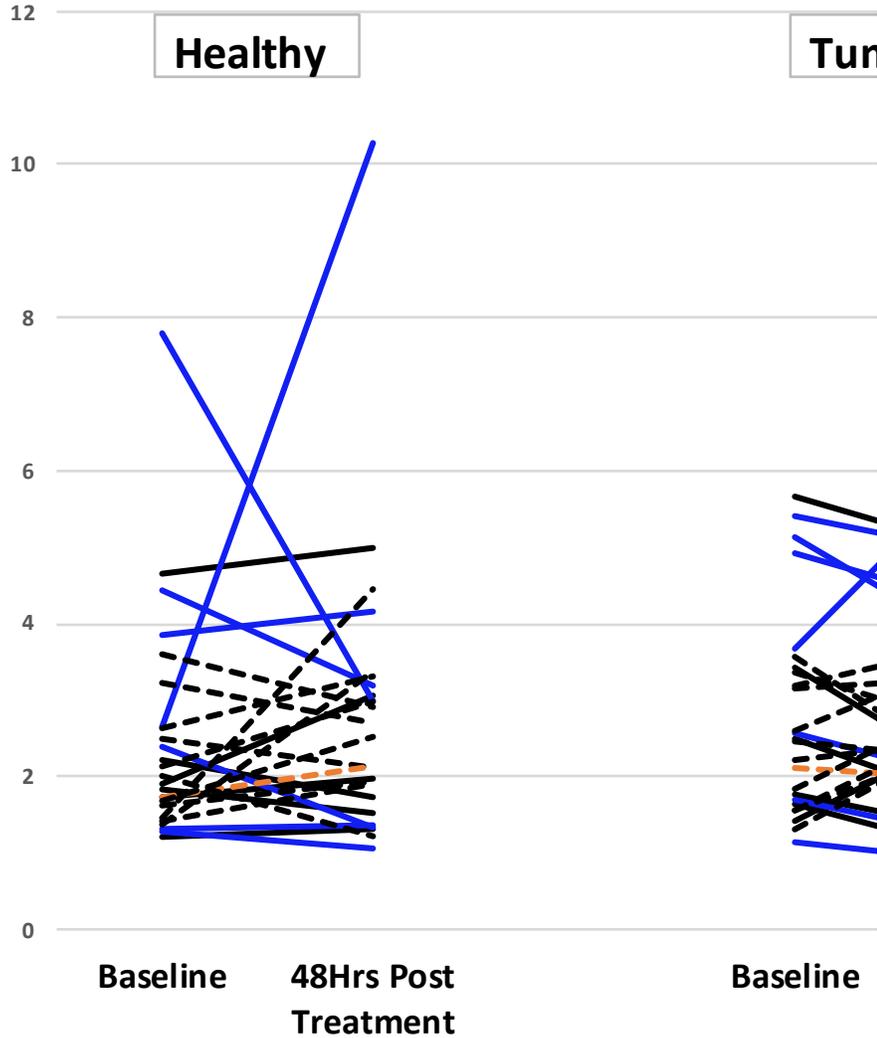


# Pyr/Lac

Healthy

Tumor

- B20-Deceased
- B20-Survivor
- - - Sal-Deceased
- - - Sal-Survivor





		Healthy	
nor		Baseline	48Hrs Post Treatment
48Hrs Post Treatment	<b>Animal ID</b>		
17.5823	1707	1.82978	1.51628
13.6259	1708	1.74451	1.98238
14.1636	1711	1.88515	3.05715
19.1032	1712	1.22146	1.32631
19.7318	1796	4.65145	4.99452
22.3973	1852	2.22714	1.72987
17.76735	Mean	2.259915	2.43441833
1.26109368	Std.Err.	0.45307621	0.51944212
48Hrs Post Treatment	<b>Animal ID</b>	Baseline	48Hrs Post Treatment
9.17049	1709	1.30036	1.36179
14.6528	1713	1.2757	1.05795
9.56931	1797	2.64873	10.2844
7.89779	1798	3.84889	4.1548

7.57746	1799	7.79599	2.98656
5.51515	1849	4.43756	3.18797
7.65279	1851	2.38023	1.3325
8.86225571	Mean	3.38392286	3.48085286
1.00379032	Std.Err.	0.79701519	1.1253015
48Hrs Post Treatment	Animal ID	Baseline	48Hrs Post Treatment
20.4666	2140	1.41459	1.90139
15.4077	2141	2.49327	2.113
12.7997	2142	1.72686	2.13276
18.2617	2143	1.68115	2.51766
18.4991	2144	2.13105	2.99432
15.3137	2145	2.01853	1.21764
12.9955	2264	3.59754	2.91041
23.505	2265	1.6196	1.9216
18.231	2266	3.22269	2.71633
14.7957	2267	1.45606	4.44901
14.3097	2268	1.37105	3.3718
20.3091	2269	2.63516	3.30831
17.0745417	Mean	2.1139625	2.62951917
0.91940717	Std.Err.	0.20259849	0.23706244

nor			Healthy
48Hrs Post Treatment	Animal ID	Baseline	48Hrs Post Treatment
17.5823	1707	0.54651379	0.6595088
13.6259	1708	0.57322687	0.50444415
14.1636	1711	0.53046177	0.32710204
19.1032	1712	0.81869238	0.75397155
19.7318	1796	0.21498672	0.20021944
22.3973	1852	0.44900635	0.57807812
17.76735	Mean	0.52214798	0.50388735
1.26109368	Std.Err.	0.07282173	0.07741159
48Hrs Post Treatment	Animal ID	Baseline	48Hrs Post Treatment
9.17049	1709	0.76901781	0.73432761
14.6528	1713	0.78388336	0.94522425
9.56931	1797	0.37753942	0.09723465
7.89779	1798	0.25981517	0.24068547

7.57746	1799	0.12827107	0.33483339
5.51515	1849	0.22534907	0.31367924
7.65279	1851	0.42012747	0.75046904
8.86225571	Mean	0.42342905	0.48806481
1.00379032	Std.Err.	0.09086872	0.11123895
<b>48Hrs Post Treatment</b>	<b>Animal ID</b>	<b>Baseline</b>	<b>48Hrs Post Treatment</b>
20.4666	2140	0.70691861	0.52593103
15.4077	2141	0.40107971	0.47326077
12.7997	2142	0.57908574	0.46887601
18.2617	2143	0.59483092	0.39719422
18.4991	2144	0.46925225	0.33396564
15.3137	2145	0.49541003	0.8212608
12.9955	2264	0.27796772	0.3435942
23.505	2265	0.6174364	0.52039967
18.231	2266	0.31029978	0.36814378
14.7957	2267	0.68678489	0.22476911
14.3097	2268	0.729368	0.2965775
20.3091	2269	0.3794836	0.30226913
17.0745417	Mean	0.5206598	0.42302015
0.91940717	Std.Err.	0.04288153	0.04338823

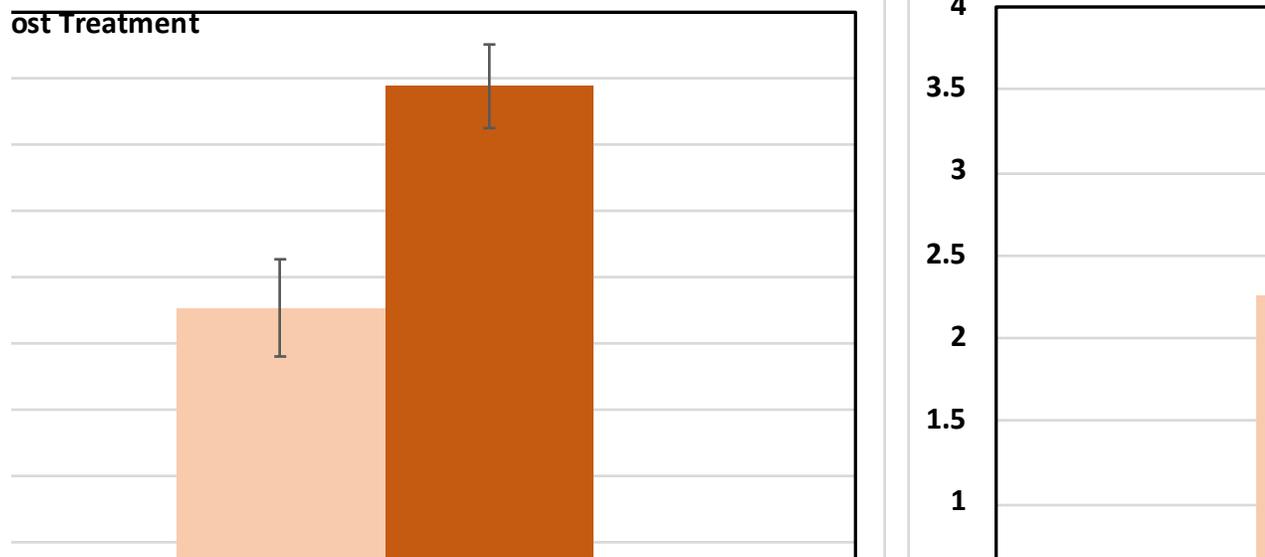
Lac/Pyr			
Normal		Tumor	
Baseline	48Hrs Post Treatment	Baseline	48Hrs Post Treatment
0.52214798	0.50388735	0.45805963	0.62262925
0.07282173	0.07741159	0.07554972	0.12085705
0.42342905	0.48806481	0.38887974	0.5050948
0.09086872	0.11123895	0.09182686	0.14010448
0.5206598	0.42302015	0.45948473	0.37984858
0.04288153	0.04338823	0.04372573	0.02650901

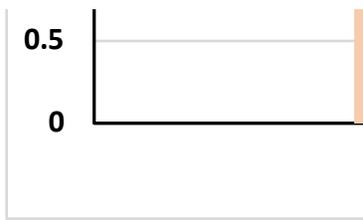
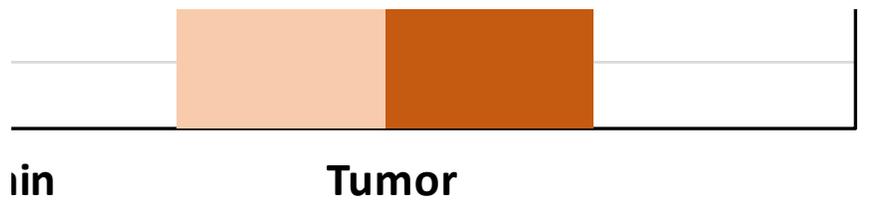
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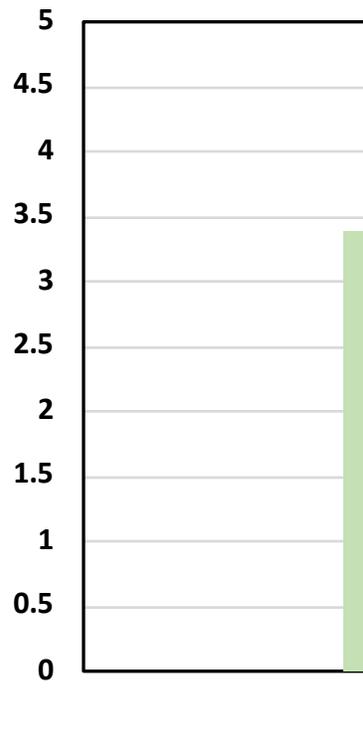
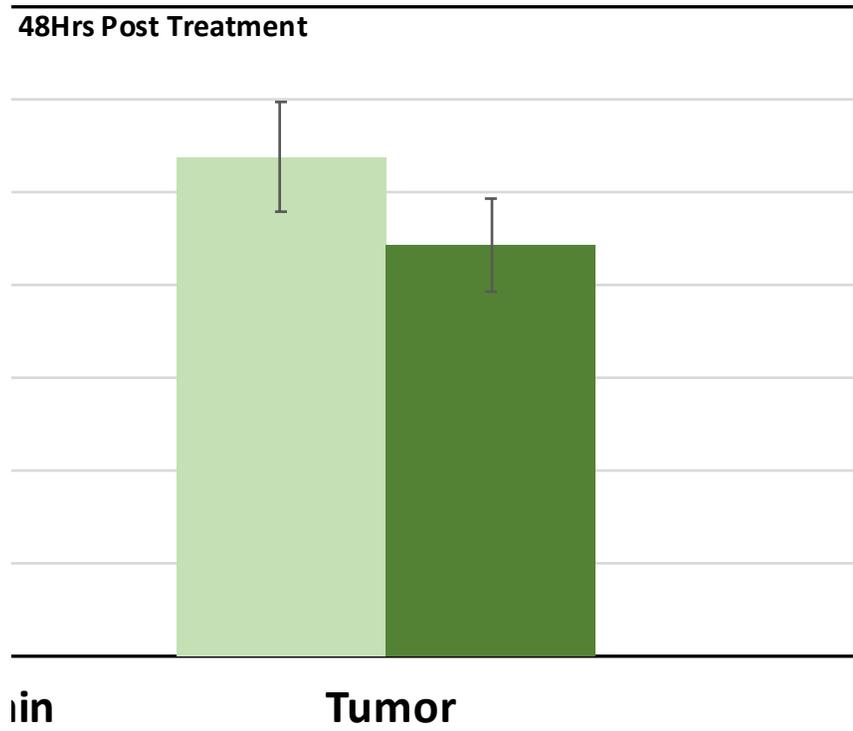
**ceased (N=6)**

ost Treatment

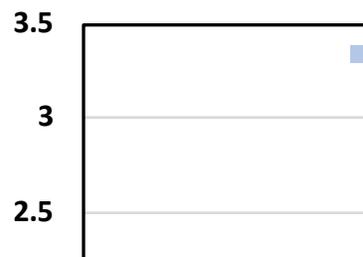
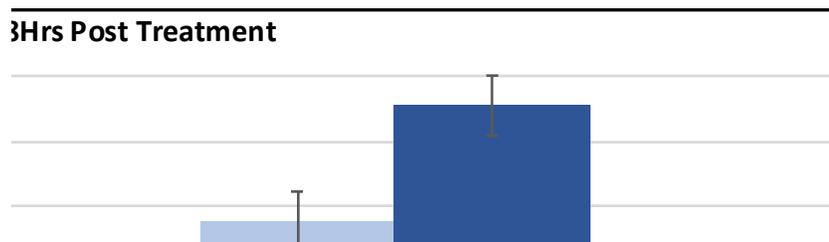


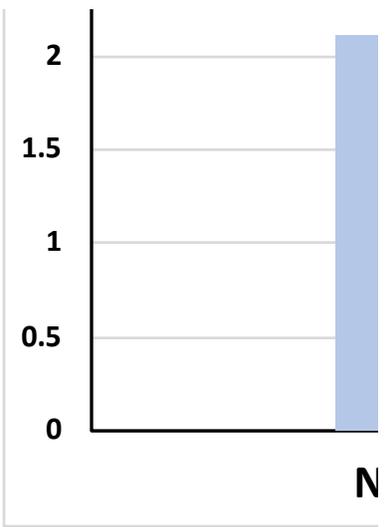
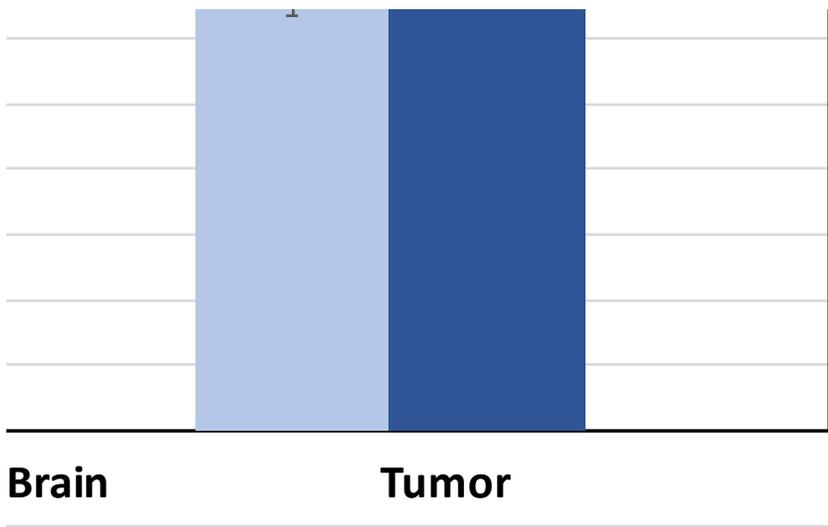


## Survivors (N=7)

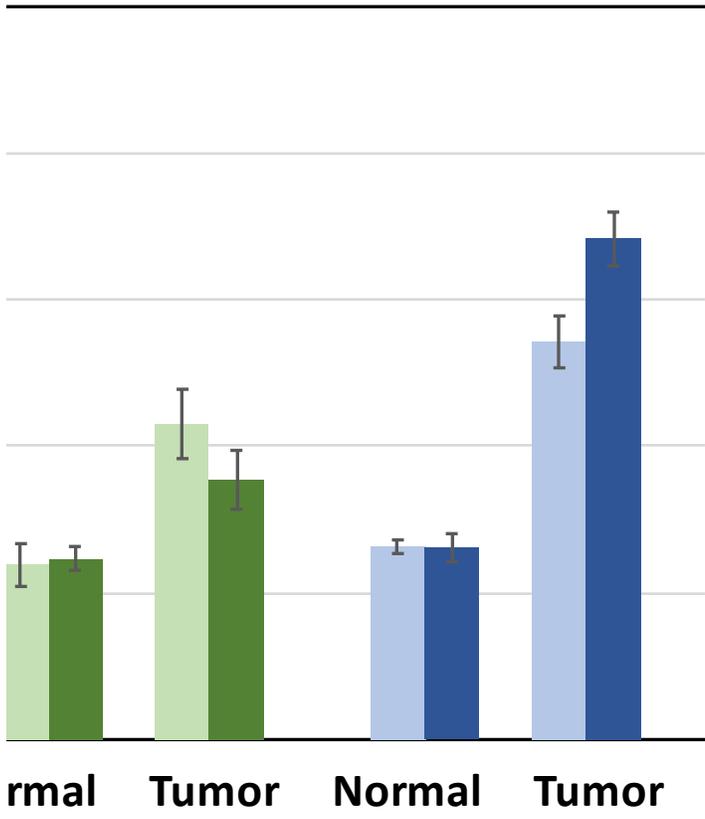


## Controls (N=12)

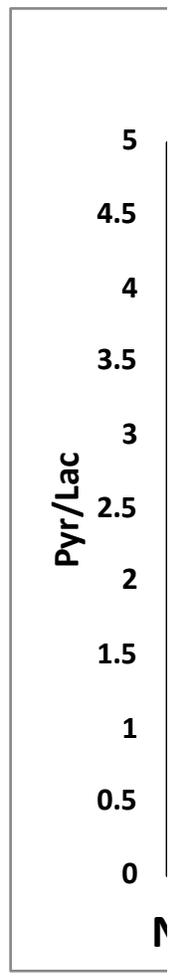




n Lac/Bic

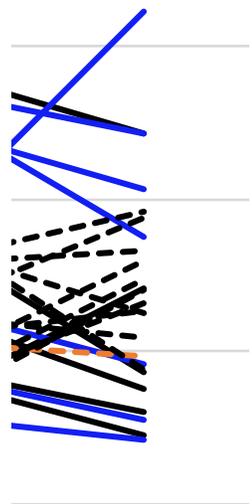


- Baseline
- 48Hrs Post Treatment
- Baseline
- 48Hrs Post Treatment
- Baseline
- 48Hrs Post Treatment



nor

- B20-Deceased
- B20-Survivor
- - - Sal-Deceased
- - - Sal-Survivor



48Hrs Post Treatment



NOTE: The cells highlighted with red are probably due to an error in MATLAB code wherein if Lac/Pyr ratio is > 1 it is not setting Pyr/Lac ratio correctly. I have copied these by taking ratio of ratios (ie Pyr/Bic over Lac/Bic) from previous columns

Pyr/Lac			
Pyr/Lac			
	Tumor		
	Baseline	48Hrs Post Treatment	
	1.78062	1.20783	
	1.41668	2.82443	
	2.49331	1.50952	
	1.63666	0.90357636	0.90357636
	5.65978	4.8578	
	3.42324	1.72783	
	2.73504833	2.17183106	
	0.5995736	0.54807429	
	Baseline	48Hrs Post Treatment	
	1.13032	0.84403669	0.84403669
	1.69388	1.09165	
	3.65474	6.44276	
	4.91912	4.12948	

	5.39385	4.84676
	5.12913	3.50964
	2.56525	1.8308
	3.49804143	3.24216096
	0.60659239	0.72906271
	Baseline	48Hrs Post Treatment
	2.60733	3.74734
	3.16454	3.31773
	2.11853	1.94674
	2.46928	2.18407
	3.17425	3.82758
	3.56403	1.74681
	3.35299	2.50149
	2.2192	2.52893
	1.83656	3.18238
	1.54535	2.93957
	1.57071	2.63495
	1.30795	2.81273
	2.41089333	2.78086
	0.2130076	0.18237131

Lac/Pyr		
	Tumor	
	Baseline	48Hrs Post Treatment
	0.56160214	0.82793108
	0.70587571	0.35405374
	0.40107327	0.66246224
	0.61100045	1.10671332
	0.17668531	0.2058545
	0.29212091	0.57876064
	0.45805963	0.62262925
	0.07554972	0.12085705
	Baseline	48Hrs Post Treatment
	0.88470522	1.18478262
	0.59036059	0.91604452
	0.27361728	0.15521298
	0.20328839	0.24216124

	0.18539633	0.2063234
	0.19496484	0.28492951
	0.38982555	0.54620931
	0.38887974	0.5050948
	0.09182686	0.14010448
	Baseline	48Hrs Post Treatment
	0.38353411	0.26685596
	0.31600169	0.3014109
	0.47202541	0.51367928
	0.40497635	0.45786078
	0.31503505	0.26126168
	0.28058125	0.57247211
	0.29824127	0.39976174
	0.45061283	0.39542415
	0.54449623	0.31423023
	0.6471026	0.34018581
	0.63665476	0.37951384
	0.76455522	0.35552648
	0.45948473	0.37984858
	0.04372573	0.02650901

Animal ID	Tumor Vol (mm <sup>3</sup> )	
	Baseline	48Hrs Post Treatment
Mean	136.843333	217.208333
Std.Err.	24.351682	31.9169897
Mean	141.594571	152.764
Std.Err.	21.5771489	29.0288005
Mean	129.53125	167.958333
Std.Err.	22.851741	33.1283618

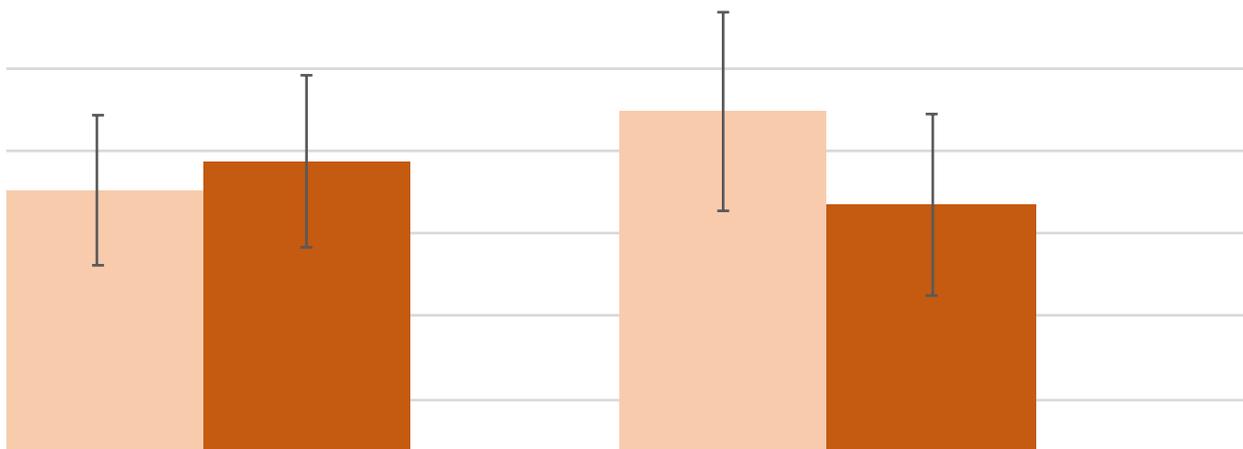
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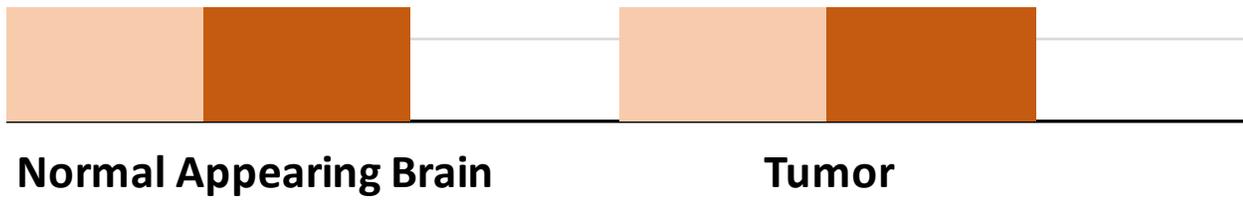
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## Pyr/Lac of Deceased (N=6)

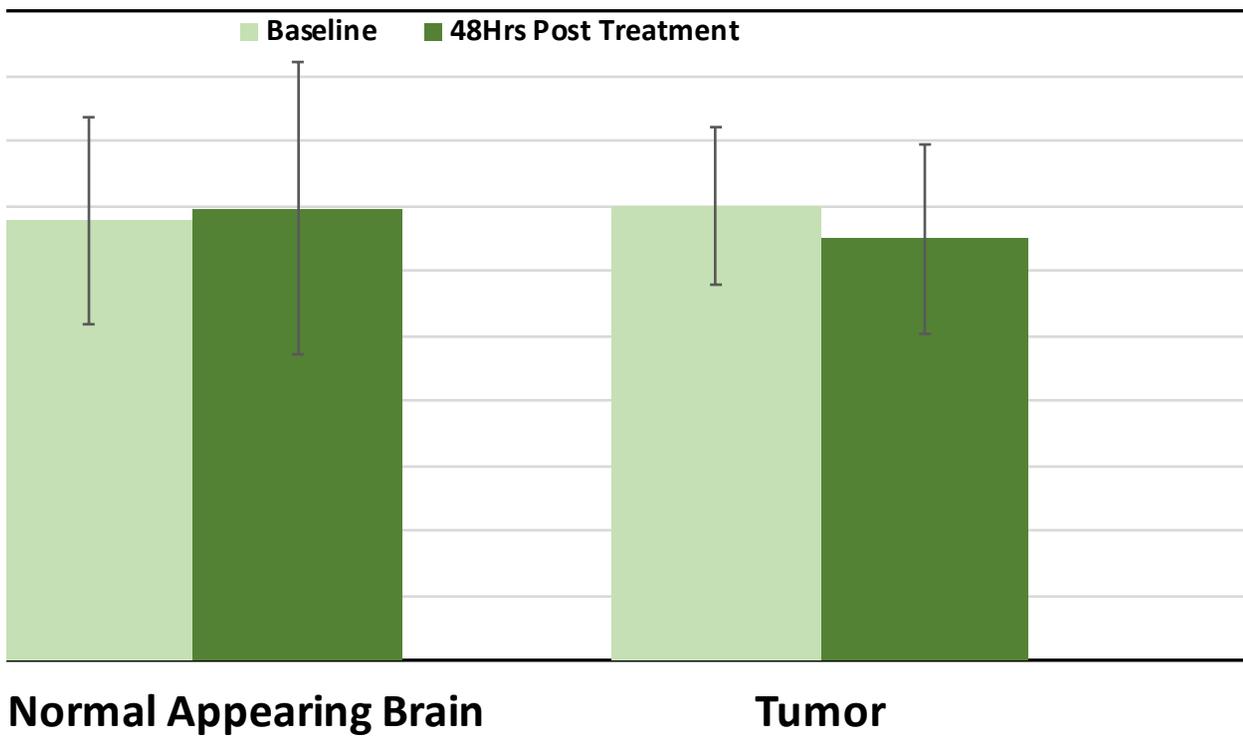
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■ Baseline ■ 48Hrs Post Treatment

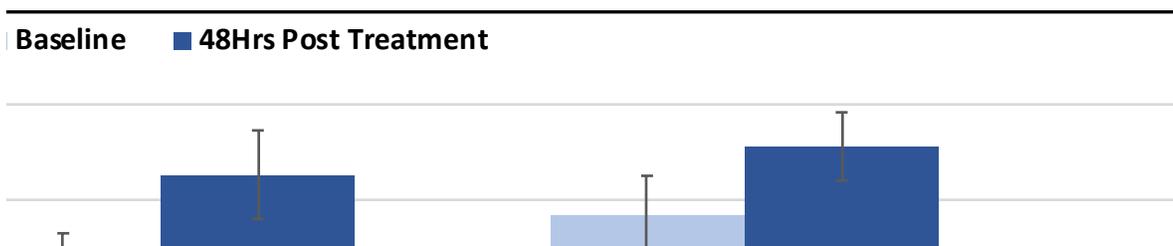


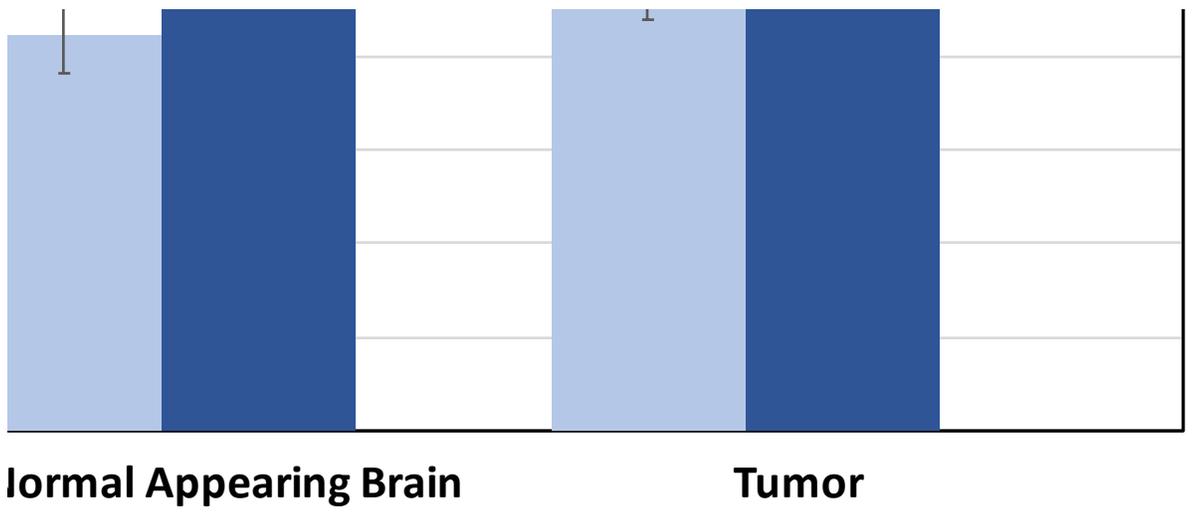


## Pyr/Lac of Survivors (N=7)

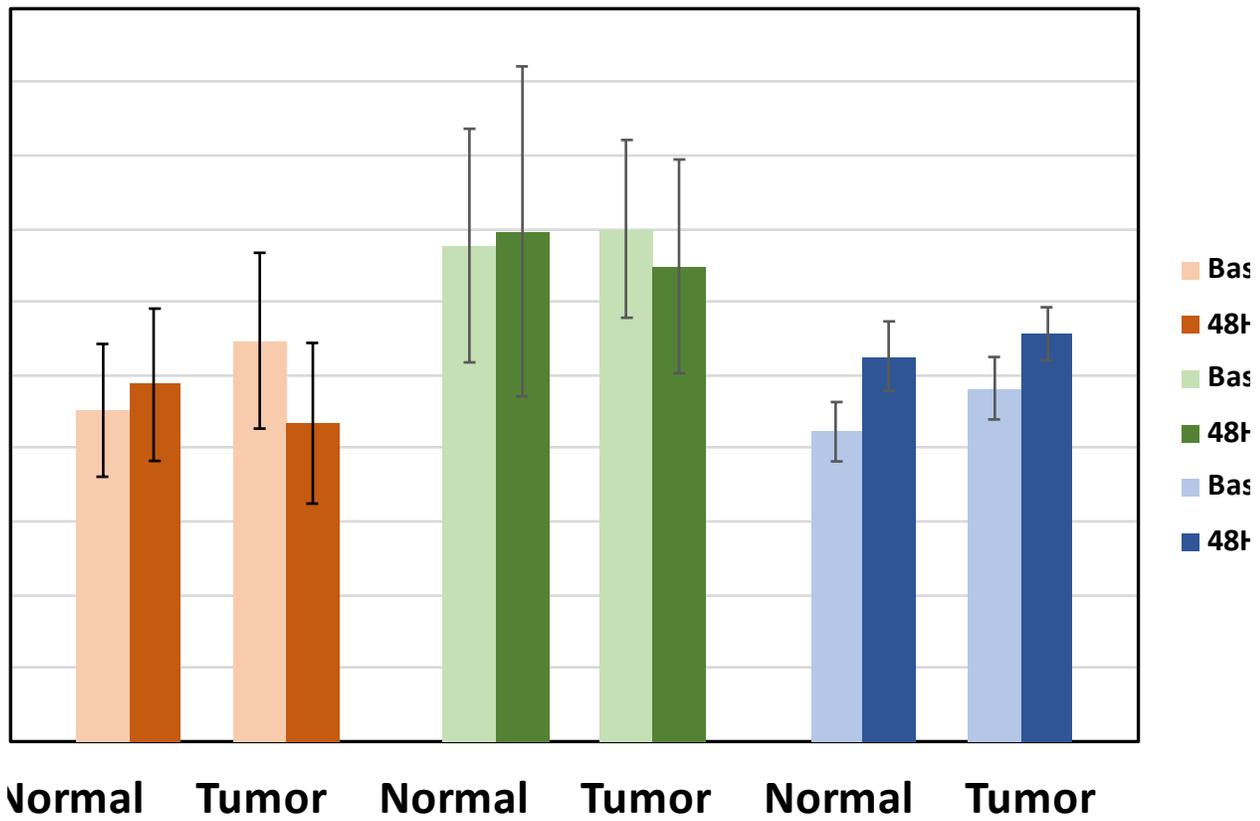


## Pyr/Lac of Controls (N=12)

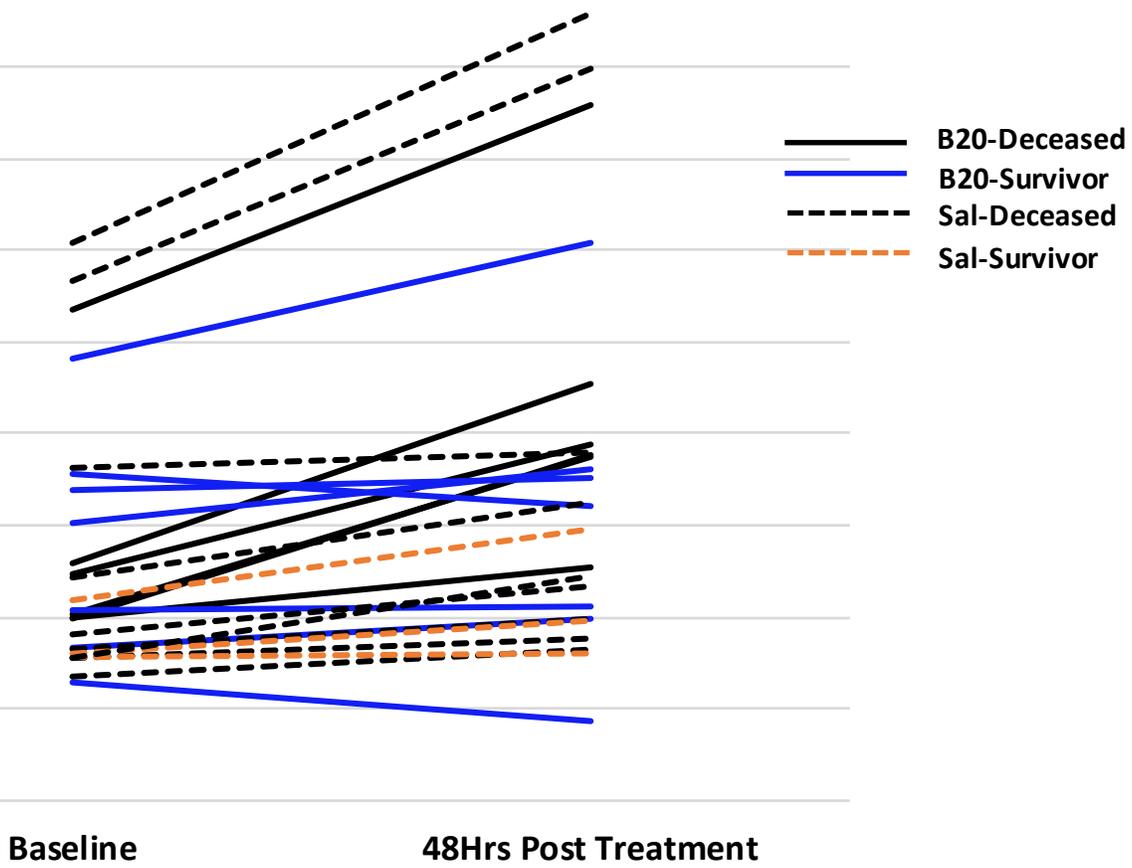




### Mean Pyr/Lac



# Tumor Volume (mm<sup>3</sup>)



		Tumor Vol (mm <sup>3</sup> )		
Animal ID	Baseline	48Hrs Post Treatment		
1707	129.375	227.125	75.5555556	
1708	101.625	187.375	84.3788438	
1711	99.25	188.375	89.7984887	
1712	123.5	194.125	57.1862348	
1796	99.756	127.148	27.459	
1852	267.554	379.102	41.6917706	
Mean	136.843333	217.208333		
Std.Err.	24.351682	31.9169897		
Animal ID	Baseline	48Hrs Post Treatment		
1709	151.312	180.625	19.3725547	
1713	240.875	304	26.2065387	
1797	178.052	160.547	-9.8313976	
1798	103.857	105.835	1.90454182	

1799	83.35	99.128	18.929814
1849	64.453	43.359	-32.727724
1851	169.263	175.854	3.8939402
Mean	141.594571	152.764	
Std.Err.	21.5771489	29.0288005	
Animal ID	Baseline	48Hrs Post Treatment	
2140	121.625	162.5	33.6073998
2141	90.625	116.875	28.9655172
2142	109.25	148	35.4691076
2143	77.75	88.375	13.6655949
2144	82.625	99	19.8184569
2145	67.625	82.375	21.8114603
2264	78.25	80.25	2.55591054
2265	181.375	189.75	4.61750517
2266	283.25	398.875	40.8208297
2267	80.125	98.125	22.4648986
2268	77.875	122.375	57.1428571
2269	304	429	41.1184211
Mean	129.53125	167.958333	
Std.Err.	22.851741	33.1283618	

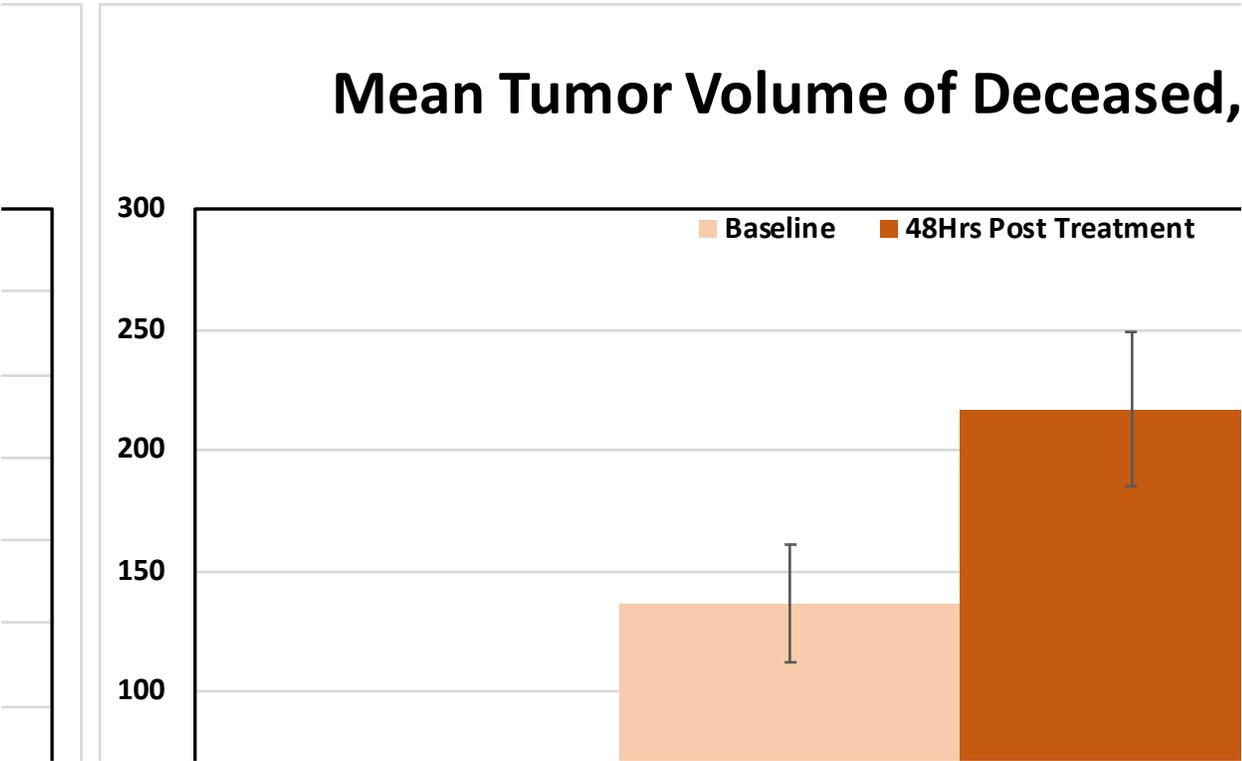
Tumor Vol (mm <sup>3</sup> )			
Animal ID	Baseline	48Hrs Post Treatment	
1707	129.375	227.125	75.5555556
1708	101.625	187.375	84.3788438
1711	99.25	188.375	89.7984887
1712	123.5	194.125	57.1862348
1796	99.756	127.148	27.459
1852	267.554	379.102	41.6917706
Mean	136.843333	217.208333	
Std.Err.	24.351682	31.9169897	
Animal ID	Baseline	48Hrs Post Treatment	
1709	151.312	180.625	19.3725547
1713	240.875	304	26.2065387
1797	178.052	160.547	-9.8313976
1798	103.857	105.835	1.90454182

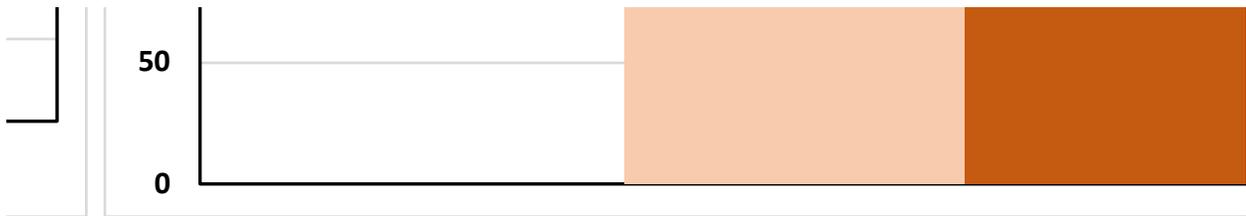
1799	83.35	99.128	18.929814
1849	64.453	43.359	-32.727724
1851	169.263	175.854	3.8939402
Mean	141.594571	152.764	
Std.Err.	21.5771489	29.0288005	
Animal ID	Baseline	48Hrs Post Treatment	
2140	121.625	162.5	33.6073998
2141	90.625	116.875	28.9655172
2142	109.25	148	35.4691076
2143	77.75	88.375	13.6655949
2144	82.625	99	19.8184569
2145	67.625	82.375	21.8114603
2264	78.25	80.25	2.55591054
2265	181.375	189.75	4.61750517
2266	283.25	398.875	40.8208297
2267	80.125	98.125	22.4648986
2268	77.875	122.375	57.1428571
2269	304	429	41.1184211
Mean	129.53125	167.958333	
Std.Err.	22.851741	33.1283618	

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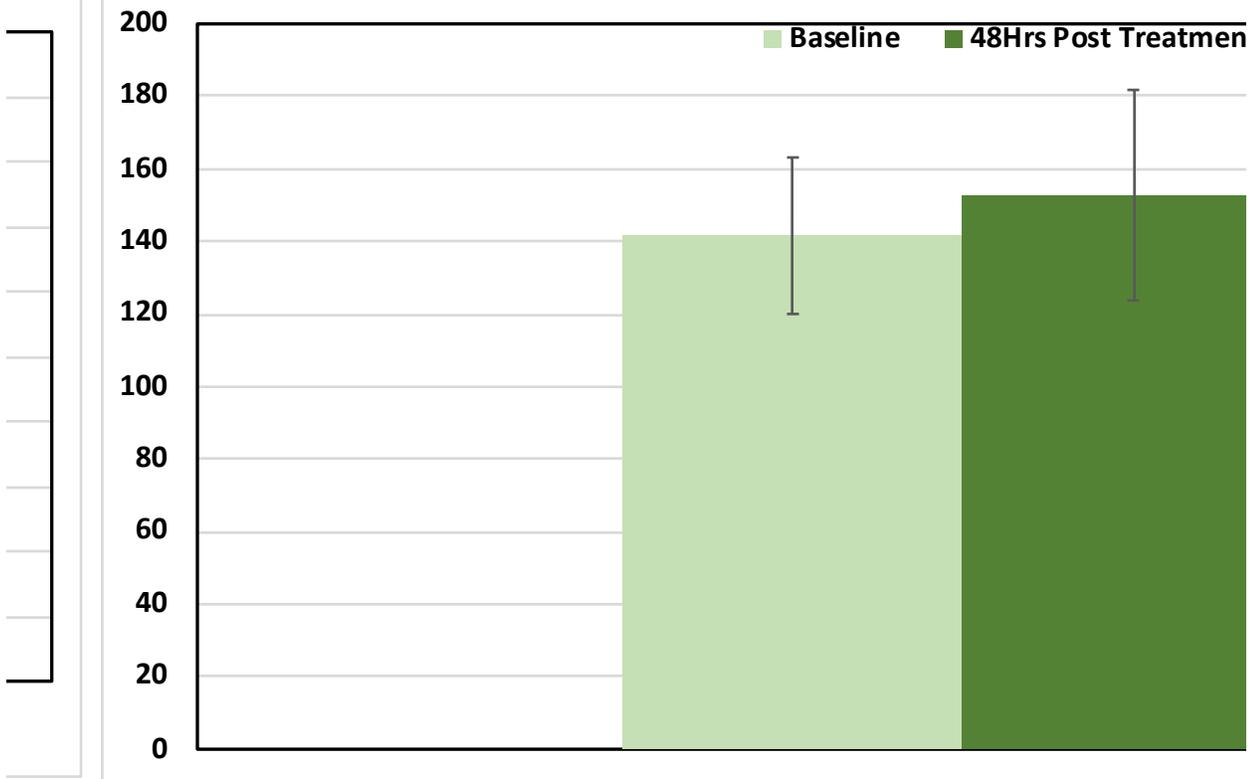
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## Mean Tumor Volume of Deceased,



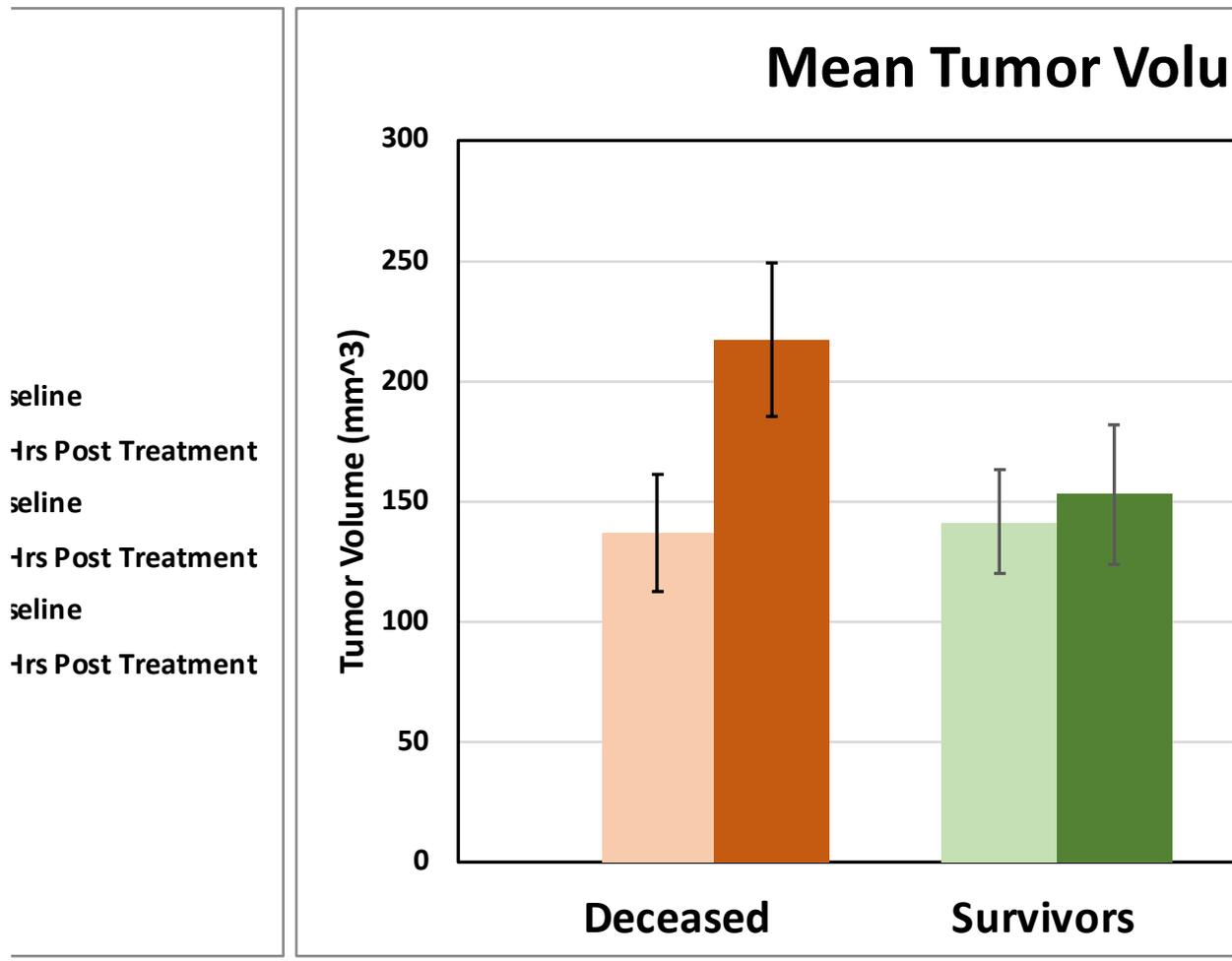
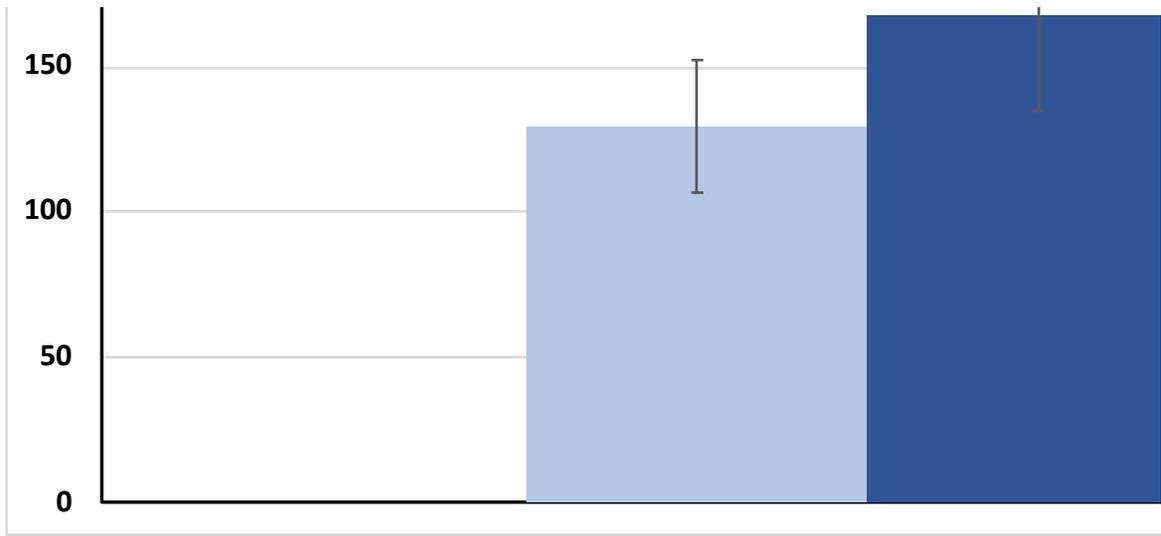


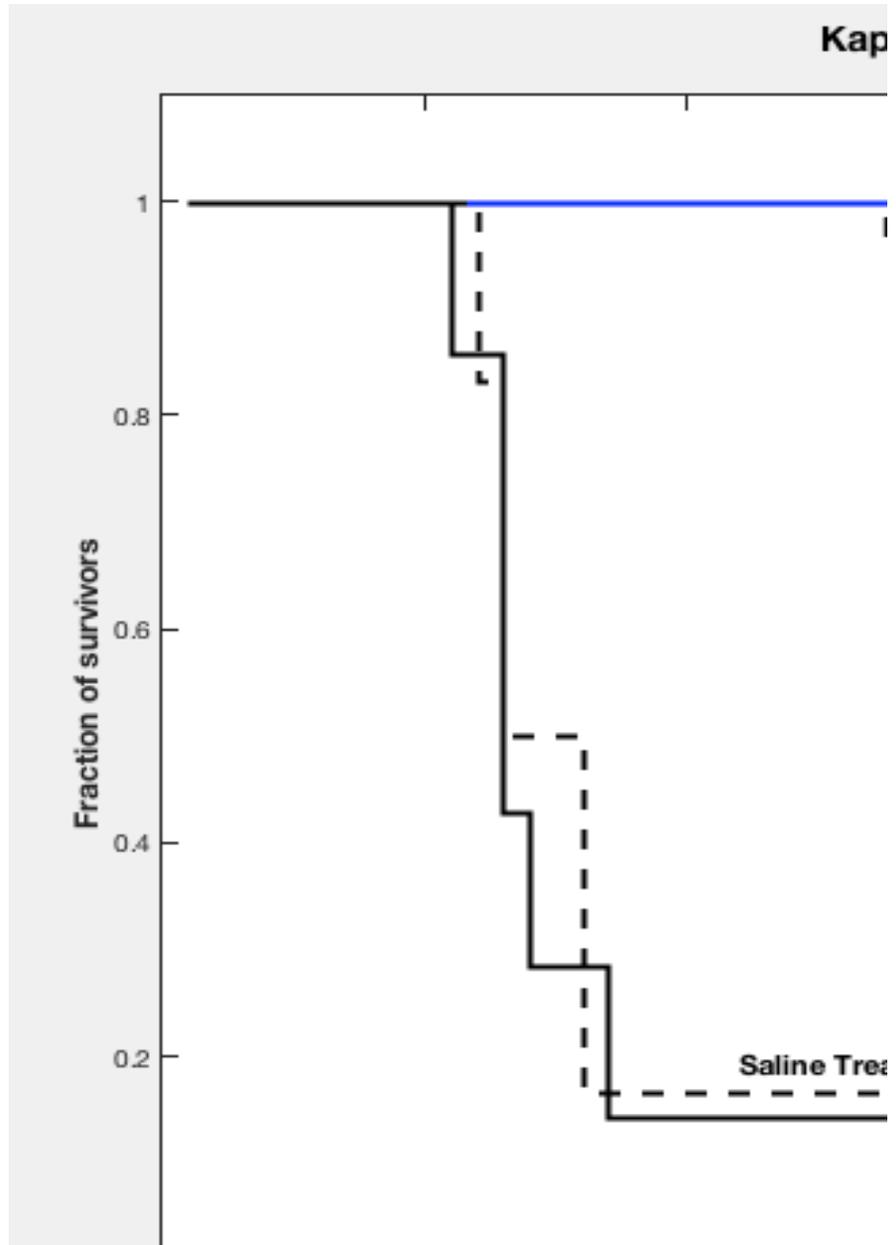
## Mean Tumor Volume of Survivors, r

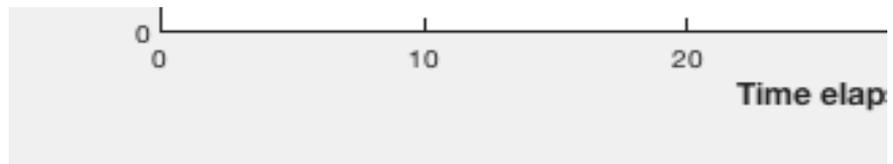


## Mean Tumor Volume of Controls,



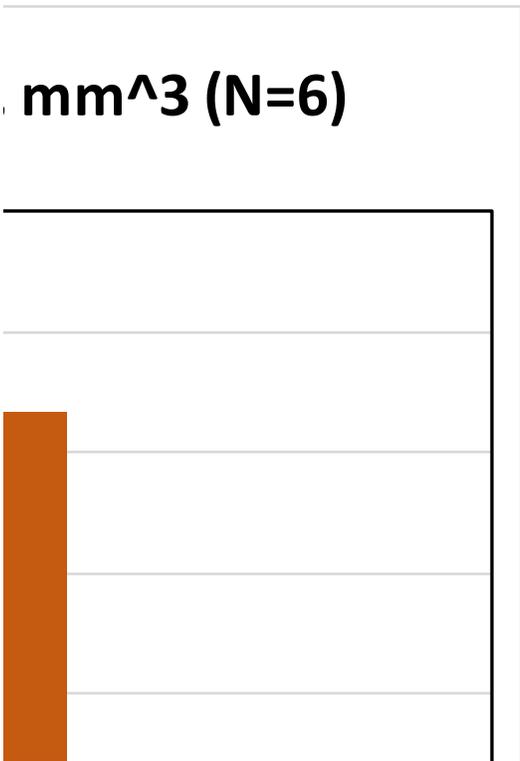






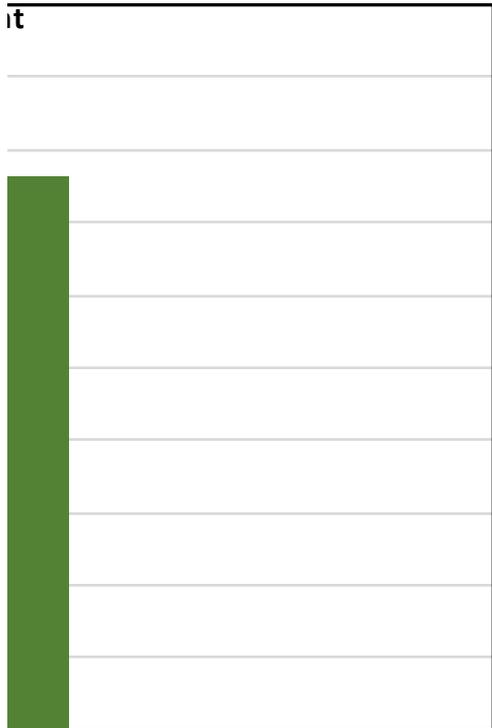






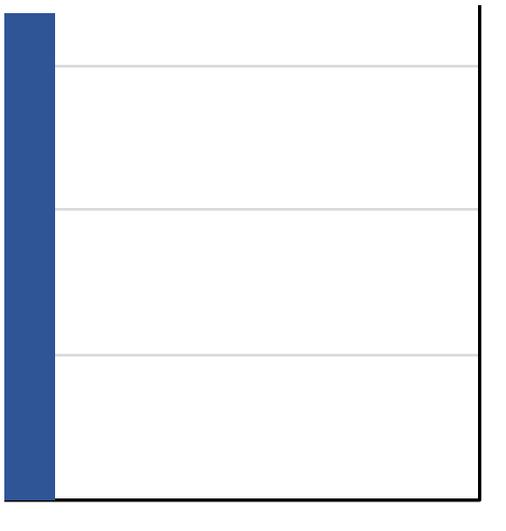


**$nm^3$  (N=7)**

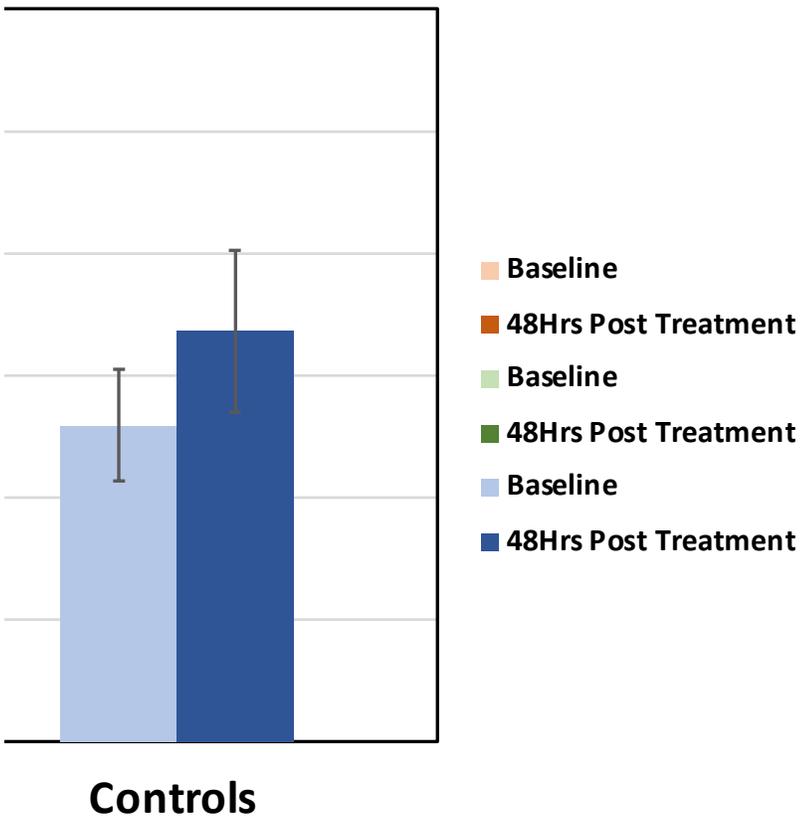


**$mm^3$  (N=12)**

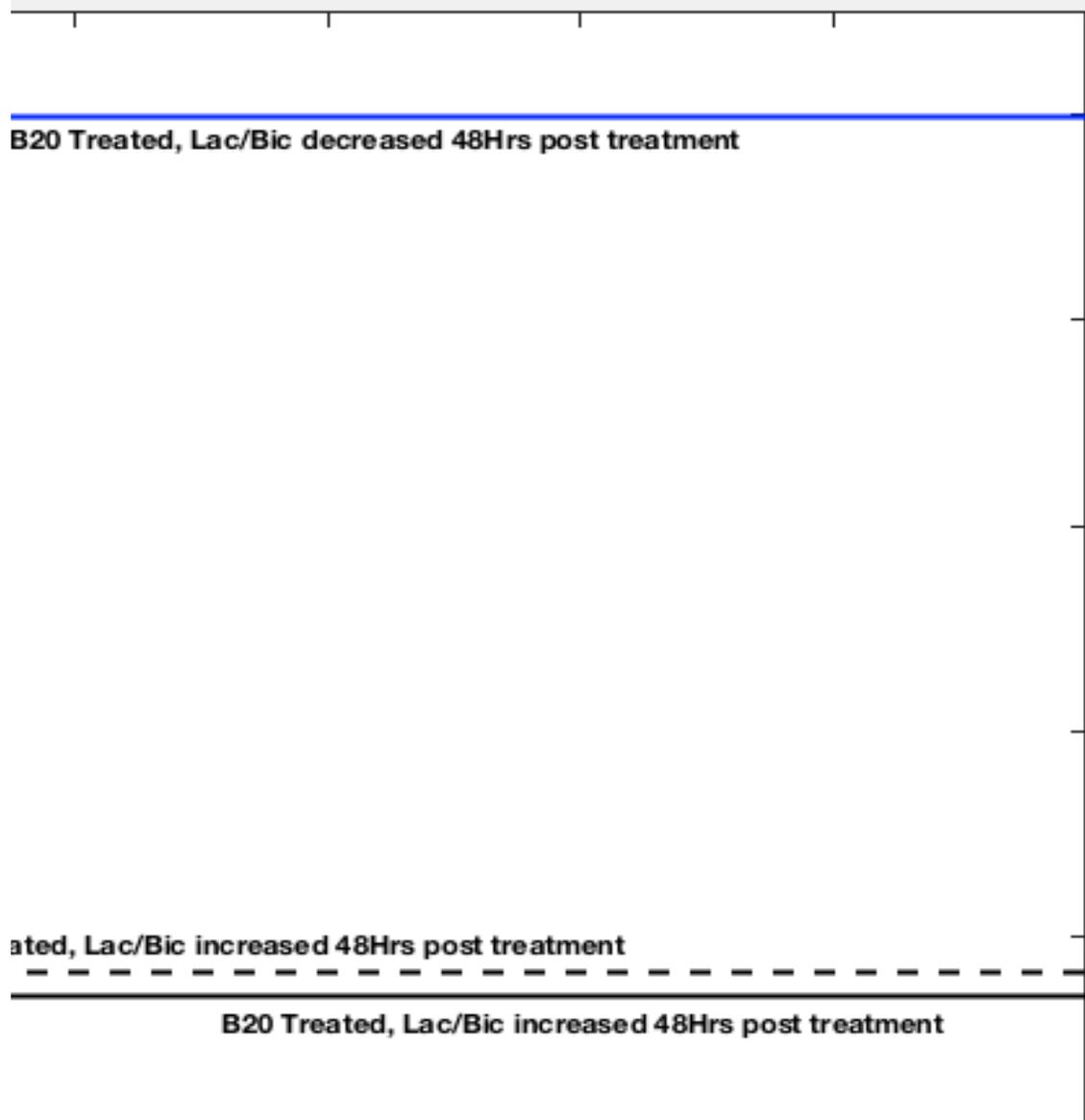




me, mm<sup>3</sup>



## Kaplan-Meier Survival Plot



**B20 Treated, Lac/Bic decreased 48Hrs post treatment**

**B20 Treated, Lac/Bic increased 48Hrs post treatment**

**B20 Treated, Lac/Bic increased 48Hrs post treatment**

30

40

50

60

70

Days post tumor implantation (Days)





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