

fig1C
weight

weeks	Control					HFD					HFD+Surgery				
4	427	400	377	345	359	425	480	400	450	467	402	430	397	432	445
8	431	479.6	443.36	396.26	432	521.7	461.4	482.3	487.2	494	479.4	469.4	483.1	472.1	478
12	484.2	475.6	436.8	453.4	490.5	543.2	579.2	540.5	531.2	585.8	552.5	484.8	513.2	556.1	532.3
16	544	546	537	536	518.4	657.9	675.7	632	670.2	672.2	654.2	575.9	628.7	657.9	629.2

fig1D

Penile organ index (%)

	Control					HFD					HFD+Surgery				
4	0.086651	0.0875	0.098143	0.098551	0.086351	0.077647	0.077083	0.08	0.075556	0.072805	0.094527	0.067442	0.095718	0.071759	0.07191
8	0.106729	0.125104	0.085709	0.090849	0.074074	0.082423	0.091027	0.10367	0.088259	0.082996	0.073008	0.083085	0.066239	0.065664	0.079498
12	0.101198	0.118167	0.10989	0.101456	0.077472	0.075479	0.07424	0.094357	0.092244	0.088767	0.072398	0.066007	0.060405	0.075526	0.06951
16	0.106066	0.088626	0.092365	0.10194	0.125579	0.075391	0.069794	0.067168	0.076097	0.074353	0.052186	0.067373	0.079529	0.047819	0.063414

fig2B
MAX ICP/MAP

	Control					HFD					HFD+Surgery				
4	0.814663	0.981301	0.862278	0.859855	0.690864	1.038631	0.906096	0.894647	0.77376	0.662525	0.822802	0.728908	0.799404	0.942878	0.88925
8	1.059223	0.758275	0.809396	0.850402	0.883896	0.950992	0.760123	0.826248	0.756418	0.699837	0.73663	0.788854	0.658564	0.694889	0.559076
12	0.886736	0.901946	0.929688	0.724966	0.688649	0.635659	0.6058	0.625651	0.652072	0.59906	0.510147	0.534746	0.428216	0.591481	0.436999
16	0.899492	0.853347	0.756099	0.836652	0.721117	0.532217	0.497528	0.669506	0.442266	0.551845	0.377932	0.378275	0.371949	0.484819	0.45966

fig2C
Intromission frequency (n)

	Control					HFD					HFD+Surgery				
4	13	8	9	6	12	8	10	8	10	7	10	8	7	6	11
8	10	13	8	13	10	10	12	8	7	8	7	9	8	10	7
12	10	14	8	10	9	8	7	7	8	6	5	6	4	6	8
16	11	9	8	9	12	5	8	4	6	4	6	5	5	4	5

fig3A Serum TG		Control					HFD					HFD+Surgery				
	4	0.493277	0.516697	0.423018	0.411308	0.528407	0.622085	0.598666	0.692345	0.528407	0.657215	0.563536	0.493277	0.563536	0.657215	0.575246
	8	0.528407	0.610376	0.516697	0.575246	0.610376	0.949961	1.113899	1.406645	1.348096	1.172448	1.394935	0.832863	0.879702	1.149028	0.949961
	12	0.774313	0.563536	0.504987	0.633795	0.692345	1.711101	1.617422	1.500324	1.547163	1.746231	1.383225	1.418355	1.441775	1.558873	1.629132
	16	0.704054	0.750894	0.797733	0.657215	0.715764	1.617422	2.109236	1.968718	1.898459	2.050687	1.980427	1.558873	2.027267	1.828199	1.746231
fig3B Serum TC		Control					HFD					HFD+Surgery				
	4	1.24306	1.299563	1.44082	1.101803	1.214809	1.271311	1.356066	1.412568	1.497322	1.525574	1.271311	1.327814	1.356066	1.384317	1.214809
	8	1.412568	1.356066	1.497322	1.24306	1.356066	1.86459	1.751585	1.892842	1.638579	1.977596	1.836339	1.553825	1.977596	1.610328	1.723333
	12	1.497322	1.469071	1.412568	1.44082	1.497322	2.06235	2.627377	3.051148	2.740383	2.090601	2.175355	3.051148	2.429617	2.06235	1.808087
	16	1.695082	1.666831	1.384317	1.610328	1.553825	2.994645	3.418415	3.164153	3.333661	2.853388	2.542623	2.740383	2.966393	2.796885	3.531421
fig3C Serum HDL		Control					HFD					HFD+Surgery				
	4	1.087391	0.90913	0.748696	0.784348	0.873478	0.766522	0.606087	0.962609	1.051739	0.926957	0.90913	0.748696	0.766522	0.784348	0.962609
	8	1.016087	0.873478	0.82	0.926957	0.695217	0.641739	0.570435	0.748696	0.766522	0.623913	0.695217	0.748696	0.748696	0.73087	0.713043
	12	0.73087	0.837826	0.855652	0.802174	0.90913	0.534783	0.677391	0.516957	0.552609	0.588261	0.659565	0.552609	0.677391	0.623913	0.73087
	16	0.784348	0.82	0.73087	0.784348	0.695217	0.427826	0.481304	0.338696	0.552609	0.445652	0.606087	0.552609	0.445652	0.570435	0.516957
fig3D Serum LDL		Control					HFD					HFD+Surgery				
	4	0.438022	0.368337	0.457933	0.378292	0.368337	0.517663	0.647079	0.507708	0.497753	0.428067	0.497753	0.527618	0.607258	0.348427	0.557483
	8	0.398202	0.318562	0.497753	0.378292	0.477843	0.666989	0.90591	0.876045	0.82627	0.517663	0.796404	0.666989	0.786449	0.567438	0.716764
	12	0.487798	0.477843	0.388247	0.537573	0.477843	1.194607	0.96564	1.055236	0.92582	1.224472	0.80636	0.796404	1.294157	0.816315	1.075146
	16	0.666989	0.557483	0.487798	0.527618	0.657034	1.314067	1.025371	0.82627	1.552989	1.085101	0.955685	1.075146	1.124921	1.333978	1.075146
fig3E SerumT		Control					HFD					HFD+Surgery				
	4	4929.2	5343	5597.4	5711.9	4624.6	4017.7	3992.3	2948.8	4812	6002.6	4413.5	5769.6	5455.5	5963.5	3966.9
	8	4553.9	5047.5	5399.2	3840.7	4197	3924.7	4562.7	4154.1	2706	2447.6	3282.6	4154.1	3649.4	3600	3035.5
	12	3059.2	4111.3	4509.9	5315.1	4317.8	2296.9	2599.1	3106.8	1383.8	2645.9	1956.5	1767.8	1602.9	2447.6	2622.9
	16	4396.1	4492.3	3395.7	3550.7	3674.2	1767.8	2342	2715.2	887.77	1767.8	1782.2	1971.2	1854.6	1409	892.51
fig3F Serum NO		Control					HFD					HFD+Surgery				
	4	42.88	44.16	35.84	45.76	43.52	40.64	34.56	37.76	50.88	45.12	42.24	48.64	50.24	46.08	39.04
	8	37.12	43.52	44.16	48.96	51.52	28.48	36.16	27.84	37.12	43.84	26.88	37.12	33.92	26.88	29.12
	12	35.52	48	42.24	45.12	51.52	23.36	27.84	24.96	26.56	24.32	23.04	15.04	22.72	20.48	23.36
	16	42.56	40	40.96	42.56	48.64	22.4	20.48	16	21.44	23.04	17.28	16.32	17.92	8.96	15.04
fig3G Serum IL-6		Control					HFD					HFD+Surgery				
	4	48.36788	47.61204	49.50164	50.25748	48.93476	58.94964	64.99644	80.49108	90.88388	64.99636	61.406	62.162	64.996	64.618	63.674
	8	51.95812	51.39124	48.55684	50.44644	52.525	64.996	67.075	69.153	68.398	67.642	85.78196	84.08132	87.86052	89.93908	89.18324
	12	52.71396	51.39124	54.22564	52.90292	53.65876	63.10676	69.15344	81.62484	98.44228	77.84564	101.4656	106.7565	104.1111	99.00916	102.7884
	16	54.98148	54.22564	57.43796	55.54836	56.87108	90.88388	68.39872	79.54628	91.07284	93.52932	122.8181	125.6525	121.3064	123.9519	127.7311
fig3H Serum TNF- α		Control					HFD					HFD+Surgery				
	4	96.62751	98.11496	99.30492	101.3874	100.1974	101.0899	102.5773	102.2798	103.1723	101.6848	104.3623	106.1472	102.5773	106.7422	117.1543
	8	101.0899	102.5773	102.2798	103.1723	101.6848	130.5414	134.4087	138.2761	141.251	142.1435	164.7527	168.9176	162.0753	165.0502	160.5879
	12	106.7422	109.4196	108.2296	113.287	112.3945	165.9427	167.7276	168.9176	171.595	170.7025	203.7239	197.4766	202.2365	190.3369	196.2867
	16	110.3121	114.4769	112.3945	121.3192	118.0468	214.4336	203.4264	204.3189	203.4264	203.1289	249.2399	247.4549	232.283	226.6306	244.1826

fp4B
Smooth muscle/Collagen

Control														HFD+ Surgery													
4	0.358152	0.409629	0.435427	0.275078	0.365636	0.329631	0.431091	0.438772	0.251942	0.372490	0.354218	0.401291	0.304838	0.327181	0.345178	0.330824	0.371602	0.26824	0.341582	0.326431	0.42773	0.267144	0.26281	0.343577	0.321539	0.277685	0.316182
8	0.374634	0.310006	0.35251	0.344921	0.302103	0.196765	0.327486	0.212034	0.376393	0.25982	0.293014	0.265062	0.243044	0.270931	0.300061	0.233314	0.243176	0.281948	0.232992	0.230109	0.162028	0.192756	0.236819	0.252032	0.186188	0.187199	0.260772
12	0.343453	0.352409	0.366993	0.339164	0.344025	0.338103	0.282925	0.256539	0.236929	0.273313	0.173213	0.166973	0.307158	0.161953	0.255263	0.197047	0.239189	0.191219	0.09979	0.230109	0.148608	0.112599	0.136057	0.132405	0.114435	0.17653	0.139517
16	0.290558	0.273804	0.330234	0.239971	0.334273	0.260545	0.301247	0.289042	0.305055	0.153337	0.145685	0.120561	0.194849	0.184845	0.138576	0.15757	0.17094	0.171551	0.084791	0.09473	0.081755	0.07644	0.086342	0.064307	0.108387	0.105004	0.089439

fp4C
GSH

	Control					HFD					HFD+ Surgery				
4	73.641761	71.79518	63.526177	65.63118	63.23974	68.23606	59.33347	67.75599	54.60993	64.23269	65.65753	57.26344	51.61586	67.65443	70.16999
8	67.30354	73.56039	72.59079	68.42749	71.53408	54.62769	55.51401	53.22209	63.47171	59.05778	53.78951	49.8953	44.97639	53.87596	57.30538
12	60.65447	71.17584	63.46313	75.11537	63.52874	59.87471	49.91539	53.42633	45.35765	54.24528	46.37352	44.94172	51.77833	45.20291	49.20291
16	54.87177	65.38496	65.98428	75.61443	72.19439	59.568	37.82282	49.848	43.90113	35.49242	34.34385	33.64984	31.77867	27.85018	29.94844

fp4D
MDA

	Control					HFD					HFD+ Surgery				
4	1.429273	0.915176	0.809358	0.663097	0.778519	1.173188	0.838218	0.871284	0.933021	1.307771	1.467834	0.747845	1.134055	1.052816	1.457806
8	0.684225	1.057472	0.750331	1.363531	0.894496	1.570187	1.302189	1.37745	1.563235	1.898538	2.452263	1.845325	1.700909	1.603729	1.685858
12	0.981538	0.524713	0.78127	0.774989	1.594874	1.322189	1.992339	1.705126	2.298973	1.951588	1.918595	2.711038	3.092319	2.927473	2.114891
16	1.198565	1.141047	0.80072	1.160933	0.584053	1.377452	2.359354	2.131285	1.966933	2.529171	2.778377	2.304446	2.418326	3.402153	3.520789

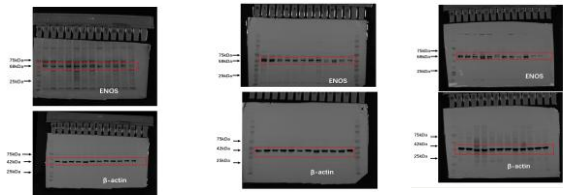
fp4E
SOD

	Control					HFD					HFD+ Surgery				
4	284.3378	308.807	240.4233	272.5199	248.6879	255.6994	210.9951	264.1614	200.7032	243.9887	211.0611	207.8928	198.811	216.1782	233.432
8	207.6897	302.3719	269.9228	250.961	268.1133	217.3924	192.6536	210.4238	205.7177	215.482	190.8106	182.6832	184.5903	179.392	180.5962
12	221.8571	269.8915	246.8311	274.3349	225.7404	187.1208	202.0987	193.4398	178.5948	193.6263	170.8928	176.9688	184.9327	155.7879	158.6964
16	221.8199	237.5785	229.0443	257.2198	243.8892	193.0378	171.8884	167.2392	184.4171	166.2499	162.5265	136.1256	146.4141	102.8129	161.8631

fig5A-E

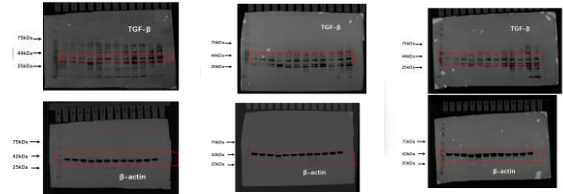
ENOS

	Control			HFD			HFD+Surgery		
4	0.96739	0.96298	0.9046	0.89626	0.88382	0.87448	0.86673	0.80478	0.8245
8	0.94322	0.95522	0.9454	0.8206	0.83657	0.92051	0.65077	0.68608	0.58331
12	0.91059	0.91746	0.84499	0.64424	0.61458	0.63304	0.40092	0.3837	0.4191
16	0.88612	0.82281	0.86119	0.53361	0.4461	0.44479	0.20239	0.2198	0.25707



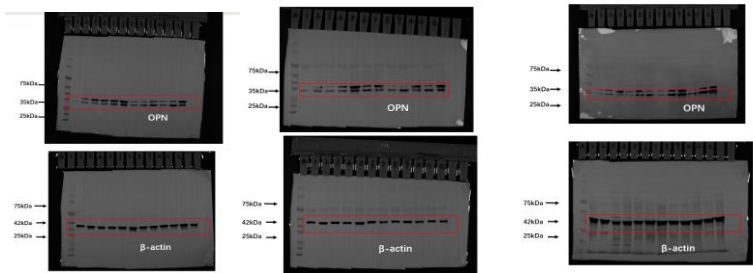
TGF-β

	Control			HFD			HFD+Surgery		
4	0.30763	0.28075	0.27737	0.29164	0.2828	0.26248	0.30035	0.29174	0.28318
8	0.32058	0.31751	0.32123	0.33891	0.35442	0.33112	0.42945	0.43857	
12	0.32614	0.31257	0.33769	0.49001	0.5748	0.5127	0.71783	0.68854	0.68518
16	0.32694	0.36271	0.33181	0.73737	0.70336	0.69557	1.0154	0.95652	0.93162



OPN

	Control			HFD			HFD+Surgery		
4	0.2656	0.31295	0.30787	0.27459	0.31409	0.31946	0.29042	0.32257	0.30208
8	0.28503	0.31377	0.34991	0.37911	0.33575	0.38209	0.46436	0.48529	0.49148
12	0.32083	0.38867	0.34306	0.53467	0.59414	0.54798	0.65717	0.69653	0.67875
16	0.43357	0.42276	0.42811	0.668	0.6726	0.71693	0.76296	0.85723	0.88733



CAL

	Control			HFD			HFD+Surgery		
4	0.95911	0.99436	0.97355	0.8915	0.96957	0.92813	0.67127	0.63361	0.6920
8	0.98119	0.98504	0.95246	0.85915	0.77803	0.83272	0.50661	0.53175	0.51433
12	0.82906	0.78019	0.84424	0.5172	0.4884	0.37497	0.29263	0.33503	0.29647
16	0.78648	0.71058	0.61787	0.30385	0.36018	0.33296	0.18612	0.22004	0.22276

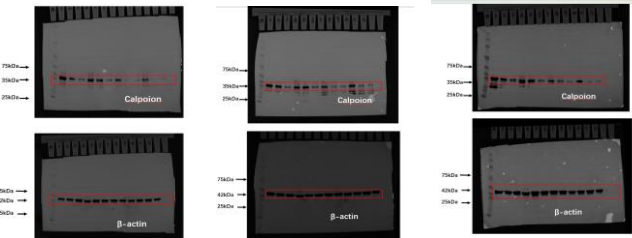


fig 5G

c3d1

	Control												HFD										HFD+Surgery											
4	147.548	116.507	146.2	129.067	138.822	127.446	150.454	153.213	156.004	111.013	133.408	140.897	132.915	129.82	176.957	139.135	117.196	102.962	84.7143	97.223	72.456	148.236	117.25	134.087	88.9662	159.925	180.534							
8	119.527	112.968	110.302	171.063	161.046	175.488	115.225	83.021	137.302	102.571	115.84	98.067	102.131	136.454	121.001	98.309	114.752	119.898	79.736	93.7	98.355	96.03	85.039	91.635	99.527	83.968	81.302							
12	105.742	134.021	140.515	148.273	148.091	117.535	172.59	145.13	119.641	102.698	95.756	93.131	88.013	98.734	86.264	81.370	77.699	99.01	54.577	75.09	70.812	67.323	64.334	54.51	61.061	63.763	68.07							
16	84.714	120.703	75.537	148.236	117.25	134.087	139.135	117.196	102.962	86.259	67.397	92.832	72.834	67.99	71.017	86.701	61.028	70.66	41.817	35.724	42.468	38.9	38.68	35.432	39.153	41.342	40.701							

fig 5H

α-SMA

	Control												HFD										HFD+Surgery											
4	186.771	201.214	199.033	181.179	141.562	139.602	145.342	158.391	136.347	164.387	181.297	193.212	195.062	168.316	180.514	143.731	106.285	108.281	154.92	157.047	144.882	135.062	138.316	130.514	139.714	132.733	160.48							
8	137.798	136.73	120.818	134.859	193.035	159.128	131.698	146.103	151.632	181.297	139.888	126.288	172.787	192.401	177.268	135.571	144.064	128.911	116.11	111.103	132.211	88.697	117.014	158.44	85.952	132.235	112.909							
12	113.367	108.495	135.096	165.668	158.949	159.133	139.214	174.876	138.608	193.212	116.42	141.082	116.018	106.873	98.701	120.894	114.168	102.282	164.582	111.144	81.049	95.954	92.957	85.844	102.031	84.708	99.474							
16	110.264	133.445	130.256	173.546	169.275	151.173	109.341	168.176	189.739	97.9	67.806	97.241	68.664	71.634	90.515	88.201	79.166	86.425	71.069	61.572	69.743	55.057	57.489	47.486	68.133	49.996	73.602							