

Supplemental Information for

Title: On-Site Classification of Pansteatitis in Mozambique Tilapia (*Oreochromis mossambicus*) using a Portable Lipid-Based Analyzer

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Supplemental Table 1. Final concentration values for total cholesterol (TC) and total triglyceride (TG) measurement on-site with POC device using the whole blood of Mozambique tilapia

Fish ID	Vet Score (0-5)	TG mg dL⁻¹	TC mg dL⁻¹
8652	0	465	235
8656	2	261	171
8657	2	>500	281
8658	5	245	171
8659	0	169	344
8660	2	>500	275
8661	5	400	210
8662	2	392	226
8663	1	89	147
8664	0.5	354	198
8665	0.5	464	276
8666	2	197	194
8668	3	353	210
8669	0.5	274	303
8670	3	433	229
8671	0.5	175	292
8672	4	>500	212
8675	2.5	365	178
8676	1	114	181
8677	1	452	238
8678	4.75	399	253
8679	5	373	252
8680	1.5	>500	215
8681	0	121	229
8682	2	369	253
8683	0	169	228
8684	1.5	366	285
8686	2	426	251
8690	5	274	211
8691	4	410	221
8692	0.5	130	268
8693	0.5	201	353
8694	0	>500	>400
8695	0	>500	363
8696	0.5	>500	267

Supplemental Table 1. Continued.

Fish ID	Date Captured	Sex	Weight (kg)	Length (cm)	Vet Score (0-5)
8697	7/31/2014	F	1.35	386	0.5
8698	7/31/2014	F	1.05	369	0.5
8699	7/31/2014	M	1.30	356	0.5
8700	7/31/2014	F	1.35	387	0.5
8701	7/31/2014	F	1.50	396	3.5
8702	7/31/2014	F	1.45	390	0
8709	7/31/2014	M	1.10	380	0

Vet scores were given on a scale of 0 – 5 (0 is completely healthy). Date captured is the same day as the whole blood measurement.

Supplemental Table 2. Tilapia whole blood TC replicate measurements using the portable lipid-based analyzer on-site

Fish ID	Vet Score (0-5)	TC-1 mg dL⁻¹	TC-2 mg dL⁻¹	TC-3 mg dL⁻¹	Average	Standard Deviation	RSD (%)
8669	0.5	297	319	294	303	14	5
8670	3	237	229	221	229	8	3
8671	0.5	285	293	298	292	7	2
8672	4	200	223	214	212	12	5
8676	1	186	179	177	181	5	3
8677	1	231	245	238	238	7	3
8678	4.75	256	250	254	253	3	1
8679	5	265	240	252	252	13	5
8680	1.5	205	218	221	215	9	4
8681	0	232	224	231	229	4	2
8682	2	256	262	242	253	10	4
8684	1.5	281	288	285	285	4	1
8690	5	203	211	219	211	8	4
8692	0.5	263	273	268	268	5	2
8695	0	347	379	362	363	16	4
8696	0.5	254	266	282	267	14	5
8698	0.5	391	384	396	390	6	2
8699	0.5	275	267	269	270	4	2
8700	0.5	369	364	384	372	10	3
8701	3.5	246	277	268	264	16	6
8702	0	224	234	263	240	20	8
8709	0	205	211	220	212	8	4
					Average	RSD	4 %

RSD = relative standard deviation.

Supplemental Table 2. Continued...

Fish ID	Vet Score (0-5)	TG mg dL⁻¹	TC mg dL⁻¹
8697	0.5	282	>400
8698	0.5	>500	<i>390</i>
8699	0.5	<i>175</i>	<i>270</i>
8700	0.5	<i>335</i>	<i>372</i>
8701	3.5	>500	<i>264</i>
8702	0	<i>307</i>	<i>240</i>
8709	0	<i>65</i>	<i>212</i>

Italics indicate value is the average of three measurements. The notation of > 500 mg dL⁻¹ and > 400 mg dL⁻¹ indicate that the TG and TC values were above the device measurement range, respectively

Supplemental Table 3. Tilapia whole blood TG replicate measurements using the portable lipid-based analyzer on-site

Fish ID	Vet Score (0-5)	TG-1 mg dL⁻¹	TG-2 mg dL⁻¹	TG-3 mg dL⁻¹	Average	Standard Deviation	RSD (%)
8658	5	233	252	250	245	10	4
8659	0	164	174	169	169	5	3
8661	5	431	372	396	400	30	7
8662	2	389	389	399	392	6	1
8663	1	102	84	82	89	11	12
8664	0.5	355	364	344	354	10	3
8665	0.5	481	478	434	464	26	6
8666	2	195	195	200	197	3	1
8668	3	364	333	362	353	17	5
8669	0.5	260	280	281	274	12	4
8670	3	458	410	432	433	24	6
8671	0.5	187	173	166	175	11	6
8675	2.5	375	371	348	365	15	4
8676	1	114	112	117	114	3	2
8677	1	474	433	449	452	21	5
8678	4.75	401	397	399	399	2	1
8679	5	372	364	383	373	10	3
8681	0	121	120	123	121	2	1
8682	2	381	380	346	369	20	5
8683	0	171	170	166	169	3	2
8684	1.5	396	353	348	366	26	7
8686	2	422	428	427	426	3	1
8690	5	246	263	313	274	35	13
8691	4	427	398	404	410	15	4
8692	0.5	124	142	125	130	10	8
8693	0.5	203	194	207	201	7	3
8697	0.5	269	267	310	282	24	9
8699	0.5	170	189	167	175	12	7
8700	0.5	343	325	337	335	9	3
8702	0	316	297		307	13	4
8709	0	73	67	56	65	9	13
					Average	RSD	5 %

Sample 8702 was only analyzed in duplicate. RSD = relative standard deviation.

Supplemental Table 4. Mozambique tilapia (*Oreochromis mossambicus*) sample information

Fish ID	Date Captured	Sex	Weight (kg)	Length (cm)	Vet Score (0-5)
8652	7/28/2014	M	2.10	447	0
8656	7/28/2014	F	1.60	430	2
8657	7/28/2014	F	1.65	410	2
8658	7/29/2014	M	2.35	460	5
8659	7/29/2014	M	1.20	375	0
8660	7/29/2014	M	1.80	437	2
8661	7/29/2014	M	2.25	461	5
8662	7/29/2014	F	1.35	402	2
8663	7/29/2014	M	1.75	428	1
8664	7/29/2014	M	1.95	431	0.5
8665	7/29/2014	M	1.45	403	0.5
8666	7/29/2014	M	2.45	474	2
8668	7/29/2014	M	1.65	440	3
8669	7/29/2014	F	1.50	392	0.5
8670	7/29/2014	M	2.00	440	3
8671	7/29/2014	F	1.55	398	0.5
8672	7/29/2014	F	1.50	396	4
8675	7/30/2014	M	1.80	428	2.5
8676	7/30/2014	M	1.70	425	1
8677	7/30/2014	F	1.65	415	1
8678	7/30/2014	M	1.90	432	4.75
8679	7/30/2014	M	2.60	475	5
8680	7/30/2014	F	1.45	411	1.5
8681	7/30/2014	M	1.50	410	0
8682	7/30/2014	F	1.50	392	2
8683	7/30/2014	M	1.40	410	0
8684	7/30/2014	F	1.90	443	1.5
8686	7/30/2014	F	1.30	383	2
8690	7/31/2014	M	1.95	435	5
8691	7/31/2014	F	1.40	392	4
8692	7/31/2014	M	1.75	422	0.5
8693	7/31/2014	F	1.25	385	0.5
8694	7/31/2014	F	1.30	382	0
8695	7/31/2014	F	1.10	365	0
8696	7/31/2014	F	1.65	400	0.5