

Supplementary Table 1 Treatment outcome of CBC and biochemical examination

	Value (mean $\pm$ SD)			P1	P 2
	Day 0	Day 15	Day 30		
WBC (* 10 ⁹ /L)	10.198 $\pm$ 9.836	4.119 $\pm$ 2.657	5.467 $\pm$ 4.392	0.048	0.076
HBG (g/L)	80.8 $\pm$ 16.8	71.0 $\pm$ 13.3	76.7 $\pm$ 17.6	0.002	0.172
PLT (* 10 ⁹ /L)	93.2 $\pm$ 88.3	60.0 $\pm$ 53.8	87.1 $\pm$ 85.3	0.042	0.234
ALT (U/L)	20.2 $\pm$ 8.9	21.5 $\pm$ 13.0	23.6 $\pm$ 9.5	0.577	0.222
AST (U/L)	20.1 $\pm$ 5.4	22.5 $\pm$ 11.7	24.6 $\pm$ 9.9	0.48	0.154
BUN (mg/dL)	8.53 $\pm$ 9.01	7.81 $\pm$ 7.65	6.75 $\pm$ 4.36	0.809	0.515
Ccr (μ mol/L)	79.82 $\pm$ 60.50	70.46 $\pm$ 38.89	68.73 $\pm$ 37.65	0.392	0.259

WBC: white blood cell; HBG: hemoglobin; PLT: platelet; ALT: alanine aminotransferase; AST: aspartate transaminase; BUN: urea nitrogen; Ccr: creatinine

Supplemental Table 2 List of 390 identified metabolites in serum samples

Super Pathway	Sub Pathway	Biochemical Name	KEGG	HMDB
Amino Acid	Glycine, Serine and Threonine Metabolism	glycine	C00037	HMDB00123
		N-acetylglycine		HMDB00532
		sarcosine	C00213	HMDB00271
		dimethylglycine	C01026	HMDB00092
		betaine	C00719	HMDB00043
		serine	C00065	HMDB00187
		N-acetylserine		HMDB02931
		beta-hydroxypyruvate	C00168	HMDB01352
		threonine	C00188	HMDB00167
		N-acetylthreonine		
	Alanine and Aspartate Metabolism	homoserine	C00263	HMDB00719
		alanine	C00041	HMDB00161
		N-acetylalanine	C02847	HMDB00766
		aspartate	C00049	HMDB00191
		asparagine	C00152	HMDB00168
	Glutamate Metabolism	N-acetylaspargate (NAA)	C01042	HMDB00812
		glutamate	C00025	HMDB00148
		glutamine	C00064	HMDB00641
	Histidine Metabolism	pyroglutamine*		
		histidine	C00135	HMDB00177
		1-methylhistidine	C01152	HMDB00001
		trans-urocanate	C00785	HMDB00301
		imidazole lactate	C05568	HMDB02320
	Lysine Metabolism	lysine	C00047	HMDB00182
		N6-acetyllysine	C02727	HMDB00206
		2-aminoadipate	C00956	HMDB00510
		glutaryl carnitine (C5-DC)		HMDB13130
		pipecolate	C00408	HMDB00070
	Phenylalanine and Tyrosine Metabolism	phenylalanine	C00079	HMDB00159
		phenyllactate (PLA)	C05607	HMDB00779
		phenylacetate	C07086	HMDB00209
		4-hydroxyphenylacetate	C00642	HMDB00020
		tyrosine	C00082	HMDB00158
		3-(4-hydroxyphenyl)lactate	C03672	HMDB00755
		phenol sulfate	C02180	HMDB60015
		p-cresol sulfate	C01468	HMDB11635
		3-methoxytyrosine		HMDB01434
		3-(3-hydroxyphenyl)propionate	C11457	HMDB00375
		tyramine O-sulfate		HMDB06409

Tryptophan Metabolism	tryptophan	C00078	HMDB00929
	indolelactate	C02043	HMDB00671
	indoleacetate	C00954	HMDB00197
	indolepropionate		HMDB02302
	3-indoxyl sulfate		HMDB00682
	kynurenine	C00328	HMDB00684
	kynurenate	C01717	HMDB00715
	indoleacetylglutamine		HMDB13240
	tryptophan betaine	C09213	HMDB61115
	C-glycosyltryptophan		
	leucine	C00123	HMDB00687
	4-methyl-2-oxopentanoate	C00233	HMDB00695
	isovalerate	C08262	HMDB00718
	isovalerylcarnitine (C5)		HMDB00688
Leucine, Isoleucine and Valine Metabolism	beta-hydroxyisovalerate		HMDB00754
	beta-hydroxyisovaleroylcarnitine		
	3-methylglutaryl carnitine (C6)		HMDB00552
	alpha-hydroxyisovalerate		HMDB00407
	isoleucine	C00407	HMDB00172
	allo-isoleucine		
	3-methyl-2-oxobutyrate	C00141	HMDB00019
	3-methyl-2-oxovalerate	C00671	HMDB03736
	2-methylbutyrylcarnitine (C5)		HMDB00378
	3-hydroxy-2-ethylpropionate		HMDB00396
	valine	C00183	HMDB00883
	isobutyrylcarnitine (C4)		HMDB00736
	3-hydroxyisobutyrate	C06001	HMDB00336
	alpha-hydroxyisocaproate	C03264	HMDB00746
Methionine, Cysteine, SAM and Taurine Metabolism	methionine	C00073	HMDB00696
	methionine sulfoxide	C02989	HMDB02005
	homocysteine	C00155	HMDB00742
	alpha-ketobutyrate	C00109	HMDB00005
	2-aminobutyrate	C02261	HMDB00650
	2-hydroxybutyrate (AHB)	C05984	HMDB00008
	cysteine	C00097	HMDB00574
	cystine	C00491	HMDB00192
	S-methylcysteine		HMDB02108
	4-amino-2-hydroxybutyrate		

		arginine	C00062	HMDB00517
		urea	C00086	HMDB00294
		ornithine	C00077	HMDB03374
		proline	C00148	HMDB00162
	Urea cycle;	citrulline	C00327	HMDB00904
	Arginine and	homocitrulline	C02427	HMDB00679
	Proline	dimethylarginine (SDMA		
	Metabolism	+ ADMA)	C03626	HMDB01539
		N-delta-acetylorithine*		
		trans-4-hydroxyproline	C01157	HMDB00725
		pro-hydroxy-pro		HMDB06695
	Creatine	creatine	C00300	HMDB00064
	Metabolism	creatinine	C00791	HMDB00562
	Polyamine	acisoga		
	Metabolism	4-acetamidobutanoate	C02946	HMDB03681
		cysteine-glutathione		HMDB00656
	Glutathione	disulfide		
	Metabolism	cys-gly, oxidized		
		5-oxoproline	C01879	HMDB00267
		gamma-glutamylglutamine	C05283	HMDB11738
		gamma-		HMDB11170
		glutamylisoleucine*		
	Gamma-glutamyl	gamma-glutamylleucine		HMDB11171
	Amino Acid	gamma-		HMDB00594
		glutamylphenylalanine		HMDB11741
		gamma-glutamyltyrosine		HMDB11172
		gamma-glutamylvaline		
	Dipeptide	N-acetylcarnosine		HMDB12881
	Derivative	bradykinin, hydroxy-		HMDB11728
		pro(3)		
		HXGXA*		
		HWESASXX*		
		XHWESASXXR*		
		HWESASLLR		
		ADSGEGDFXAEGGGV		
		R*		
	Fibrinogen	DSGEGDFXAEGGGVR*		
	Cleavage Peptide	ADpSGEGDFXAEGGGV		
		R*		
	Acetylated	phenylacetylglutamine	C04148	HMDB06344
	Peptides			
	Glycolysis,	1,5-anhydroglucitol (1,5-	C07326	HMDB02712
Carbohy	Gluconeogenesis,	AG)		
drate				

	and Pyruvate Metabolism	glucose	C00031	HMDB00122
		1,3-dihydroxyacetone	C00184	HMDB01882
		pyruvate	C00022	HMDB00243
		lactate	C00186	HMDB00190
		glycerate	C00258	HMDB00139
		ribulose	C00309	HMDB00621
		ribose	C00121	HMDB00283
		ribitol	C00474	HMDB00508
		xylonate	C05411	HMDB60256
		xylose	C00181	HMDB00098
	Pentose Metabolism	xylitol	C00379	HMDB02917
		arabinose	C00216	HMDB00646
		threitol	C16884	HMDB04136
		arabitol	C01904	HMDB00568
		fucose	C01018	HMDB00174
		maltotriose	C01835	HMDB01262
		maltose	C00208	HMDB00163
	Glycogen Metabolism	isomaltose	C00252	HMDB02923
	Disaccharides and Oligosaccharides	sucrose	C00089	HMDB00258
		fructose	C00095	HMDB00660
		sorbitol	C00794	HMDB00247
		mannose	C00159	HMDB00169
		mannitol	C00392	HMDB00765
		galactitol (dulcitol)	C01697	HMDB00107
		glucuronate	C00191	HMDB00127
		N-acetylneuraminate	C00270	HMDB00230
		erythronate*		HMDB00613
	Advanced Glycation End- product	erythrulose	C02045	HMDB06293
		citrate	C00158	HMDB00094
		cis-aconitate	C00417	HMDB00072
		alpha-ketoglutarate	C00026	HMDB00208
		succinylcarnitine (C4-DC)		
		succinate	C00042	HMDB00254
		fumarate	C00122	HMDB00134
		malate	C00149	HMDB00156
Energy	TCA Cycle	acetylphosphate	C00227	HMDB01494
		pyrophosphate (PPi)	C00013	HMDB00250
		phosphate	C00009	HMDB01429
		caproate (6:0)	C01585	HMDB00535
		heptanoate (7:0)	C17714	HMDB00666
	Oxidative Phosphorylation			
Lipid	Medium Chain Fatty Acid			

	caprylate (8:0)	C06423	HMDB00482
	pelargonate (9:0)	C01601	HMDB00847
	caprate (10:0)	C01571	HMDB00511
	10-undecenoate (11:1n1)		
	laurate (12:0)	C02679	HMDB00638
	5-dodecenoate (12:1n7)		HMDB00529
	myristate (14:0)	C06424	HMDB00806
	myristoleate (14:1n5)	C08322	HMDB02000
	pentadecanoate (15:0)	C16537	HMDB00826
	palmitate (16:0)	C00249	HMDB00220
	palmitoleate (16:1n7)	C08362	HMDB03229
	margarate (17:0)		HMDB02259
	10-heptadecenoate (17:1n7)		HMDB60038
Long Chain Fatty Acid	stearate (18:0)	C01530	HMDB00827
	oleate (18:1n9)	C00712	HMDB00207
	cis-vaccenate (18:1n7)	C08367	HMDB03231
	nonadecanoate (19:0)	C16535	HMDB00772
	10-nonadecenoate (19:1n9)		HMDB13622
	arachidate (20:0)	C06425	HMDB02212
	eicosenoate (20:1)		HMDB02231
	erucate (22:1n9)	C08316	HMDB02068
	nervonate (24:1n9)	C08323	HMDB02368
	stearidonate (18:4n3)	C16300	HMDB06547
	eicosapentaenoate (EPA; 20:5n3)	C06428	HMDB01999
	docosapentaenoate (n3 DPA; 22:5n3)	C16513	HMDB01976
	docosahexaenoate (DHA; 22:6n3)	C06429	HMDB02183
	linoleate (18:2n6)	C01595	HMDB00673
Polyunsaturated Fatty Acid (n3 and n6)	linolenate [alpha or gamma; (18:3n3 or 6)]	C06426	HMDB03073
	dihomo-linolenate (20:3n3 or n6)	C03242	HMDB02925
	arachidonate (20:4n6)	C00219	HMDB01043
	adrenate (22:4n6)	C16527	HMDB02226
	docosapentaenoate (n6 DPA; 22:5n6)	C16513	HMDB01976
	docosadienoate (22:2n6)	C16533	HMDB61714
	dihomo-linoleate (20:2n6)	C16525	HMDB05060
	mead acid (20:3n9)		HMDB10378
Fatty Acid,	15-methylpalmitate		

Branched	17-methylstearate		
	2-hydroxyglutarate	C02630	HMDB00606
	hexadecanedioate	C19615	HMDB00672
Fatty Acid, Dicarboxylate	octadecanedioate		HMDB00782
	3-carboxy-4-methyl-5-propyl-2-furanpropanoate (CMPF)		HMDB61112
	palmitate, methyl ester	C16995	
Fatty Acid, Methyl Ester	linoleate, methyl ester		
Fatty Acid, Amide	palmitic amide		
	oleamide	C19670	HMDB02117
Fatty Acid, Amino	2-aminoheptanoate		
	2-aminooctanoate		HMDB00991
Fatty Acid	butyrylcarnitine (C4)	C02862	HMDB02013
Metabolism (also BCAA Metabolism)	propionylcarnitine (C3)	C03017	HMDB00824
	acetylcarnitine (C2)	C02571	HMDB00201
	3-hydroxybutyrylcarnitine (1)		HMDB13127
Fatty Acid Metabolism(Acyl Carnitine)	hexanoylcarnitine (C6)		HMDB00705
	octanoylcarnitine (C8)	C02838	HMDB00791
	decanoylcarnitine (C10)		HMDB00651
	cis-4-decenoylcarnitine (C10:1)		
	laurylcarnitine (C12)		HMDB02250
	palmitoylcarnitine (C16)	C02990	HMDB00222
	stearoylcarnitine (C18)		HMDB00848
Carnitine Metabolism	oleoylcarnitine (C18:1)		HMDB05065
	deoxycarnitine	C01181	HMDB01161
	carnitine	C00318	HMDB00062
Ketone Bodies	acetoacetate	C00164	HMDB00060
	3-hydroxybutyrate (BHBA)	C01089	HMDB00357
	2-hydroxydecanoate		
Fatty Acid, Monohydroxy	2-hydroxypalmitate		HMDB31057
	2-hydroxystearate	C03045	
	3-hydroxyoctanoate		HMDB01954
	3-hydroxydecanoate		HMDB02203
Eicosanoid	13-HODE + 9-HODE		
	leukotriene B4	C02165	HMDB01085
	prostaglandin B2	C05954	HMDB04236
	5-HETE	C04805	HMDB11134
	5-KETE	C14732	HMDB10217

Endocannabinoid	oleoyl ethanolamide		HMDB02088
Inositol Metabolism	myo-inositol	C00137	HMDB00211
	chiro-inositol	C19891	HMDB34220
	inositol 1-phosphate (I1P)	C04006	HMDB00213
	choline	C00114	HMDB00097
Phospholipid Metabolism	glycerophosphorylcholine (GPC)	C00670	HMDB00086
Lysolipid	ethanolamine	C00189	HMDB00149
	phosphoethanolamine	C00346	HMDB00224
	1-palmitoyl-GPC (16:0)		HMDB10382
	2-palmitoyl-GPC (16:0)*		HMDB61702
	1-palmitoleoyl-GPC (16:1)*		HMDB10383
	1-stearoyl-GPC (18:0)		HMDB10384
	2-stearoyl-GPC (18:0)*		
	1-oleoyl-GPC (18:1)		HMDB02815
	1-linoleoyl-GPC (18:2)	C04100	HMDB10386
	1-linolenoyl-GPC (18:3)*		
	1-arachidonoyl-GPC (20:4n6)*	C05208	HMDB10395
	1-palmitoyl-GPE (16:0)		HMDB11503
	1-stearoyl-GPE (18:0)		HMDB11130
	1-oleoyl-GPE (18:1)		HMDB11506
	1-linoleoyl-GPE (18:2)*		HMDB11507
	1-arachidonoyl-GPE (20:4n6)*		HMDB11517
	1-palmitoyl-GPI (16:0)*		HMDB61695
Lysoplasmalogen	1-stearoyl-GPI (18:0)		HMDB61696
	1-oleoyl-GPI (18:1)*		
	1-arachidonoyl-GPI (20:4)*		HMDB61690
	1-palmitoyl-GPA (16:0)	C04036	HMDB00327
	1-arachidonoyl-GPA (20:4)		
	1-palmitoyl-GPG (16:0)*		
	1-(1-enyl-palmitoyl)-GPE (P-16:0)*		
	1-(1-enyl-oleoyl)-GPE (P- 18:1)*		
	glycerol	C00116	HMDB00131
	glycerol 3-phosphate	C00093	HMDB00126
Glycerolipid Metabolism	1-palmitoylglycerol (16:0)		HMDB31074
Monoacylglycerol 1	1-stearoylglycerol (18:0)	D01947	HMDB31075
	1-oleoylglycerol (18:1)		HMDB11567

	2-oleoylglycerol (18:1)		
	1-arachidonylglycerol (20:4)	C13857	HMDB11572
Diacylglycerol	1,2-dipalmitoylglycerol		HMDB07098
	palmitoyl sphingomyelin (d18:1/16:0)		
Sphingolipid Metabolism	stearoyl sphingomyelin (d18:1/18:0)	C00550	HMDB01348
	sphingosine	C00319	HMDB00252
	lathosterol	C01189	HMDB01170
	cholesterol	C00187	HMDB00067
	7-alpha-hydroxycholesterol	C03594	HMDB01496
Sterol	7-beta-hydroxycholesterol		HMDB06119
	7-alpha-hydroxy-3-oxo-4-cholestenoate (7-Hoca)	C17337	HMDB12458
	cholestanol	C12978	HMDB00908
	beta-sitosterol	C01753	HMDB00852
	campesterol	C01789	HMDB02869
	pregnenolone sulfate		HMDB00774
	21-hydroxypregnenolone disulfate	C05485	HMDB04026
	5alpha-pregnan-3beta,20alpha-diol disulfate		
	pregnen-diol disulfate*		
	pregn steroid monosulfate*		
	cortisol	C00735	HMDB00063
	dehydroisoandrosterone sulfate (DHEA-S)	C04555	HMDB01032
Steroid	epiandrosterone sulfate	C07635	HMDB00365
	androsterone sulfate		HMDB02759
	androstenediol (3beta,17beta) disulfate (1)*	C04295	HMDB03818
	androstenediol (3beta,17beta) disulfate (2)*	C04295	HMDB03818
	5alpha-androstan-3beta,17alpha-diol disulfate		
	5alpha-androstan-3alpha,17beta-diol		

	disulfate		
	5alpha-androstan-3beta,17beta-diol disulfate	C12525	HMDB00493
	andro steroid monosulfate 2*	C04555	HMDB02759
	cholate	C00695	HMDB00619
	glycocholate	C01921	HMDB00138
Primary Bile	taurocholate	C05122	HMDB00036
Acid Metabolism	chenodeoxycholate	C02528	HMDB00518
	glycochenodeoxycholate	C05466	HMDB00637
	taurochenodeoxycholate	C05465	HMDB00951
	deoxycholate	C04483	HMDB00626
	glycodeoxycholate	C05464	HMDB00631
	glycolithocholate sulfate*	C11301	HMDB02639
Secondary Bile	tauroolithocholate 3-sulfate	C03642	HMDB02580
Acid Metabolism	ursodeoxycholate	C07880	HMDB00946
	glycoursodeoxycholate		HMDB00708
	glycocholenate sulfate*		
	taurocholenate sulfate*		
Purine	inosine	C00294	HMDB00195
Metabolism,	hypoxanthine	C00262	HMDB00157
(Hypo)Xanthine/	xanthine	C00385	HMDB00292
Inosine	urate	C00366	HMDB00289
containing	allantoin	C02350	HMDB00462
Purine	adenosine	C00212	HMDB00050
Metabolism,			
Adenine	N1-methyladenosine	C02494	HMDB03331
containing			
Purine	guanosine	C00387	HMDB00133
Metabolism,	7-methylguanine	C02242	HMDB00897
Guanine			
containing	N2,N2-dimethylguanosine		HMDB04824
Pyrimidine			
Metabolism,			
Orotate	orotate	C00295	HMDB00226
containing			
Pyrimidine	uridine	C00299	HMDB00296
Metabolism,	pseudouridine	C02067	HMDB00767
Uracil containing	beta-alanine	C00099	HMDB00056
	N-acetyl-beta-alanine	C01073	
Pyrimidine	5,6-dihydrothymine	C00906	HMDB00079
Metabolism,			
Thymine	3-aminoisobutyrate	C05145	HMDB03911

Cofactors and Vitamins	containing			
	Nicotinate and Nicotinamide Metabolism	quinolate	C03722	HMDB00232
		nicotinamide	C00153	HMDB01406
		trigonelline (N'- methylnicotinate)	C01004	HMDB00875
		N1-Methyl-2-pyridone-5- carboxamide	C05842	HMDB04193
	Pantothenate and CoA Metabolism	pantothenate	C00864	HMDB00210
	Ascorbate and Aldarate Metabolism	ascorbate (Vitamin C)	C00072	HMDB00044
		threonate	C01620	HMDB00943
		arabonate	C00878	HMDB00539
		oxalate (ethanedioate)	C00209	HMDB02329
	Tocopherol Metabolism	alpha-tocopherol	C02477	HMDB01893
		beta-tocopherol	C14152	HMDB06335
		delta-tocopherol	C14151	HMDB02902
		gamma-tocopherol	C02483	HMDB01492
		gamma-CEHC		HMDB01931
		heme	C00032	HMDB03178
		bilirubin (Z,Z)	C00486	HMDB00054
	Hemoglobin and Porphyrin Metabolism	bilirubin (E,E)*		
		bilirubin (E,Z or Z,E)*		
		biliverdin	C00500	HMDB01008
		I-urobilinogen	C05790	HMDB04157
		D-urobilin	C05795	HMDB04161
	Vitamin B6 Metabolism	pyridoxate	C00847	HMDB00017
	Benzoate Metabolism	hippurate	C01586	HMDB00714
		benzoate	C00180	HMDB01870
		4-hydroxybenzoate	C00156	HMDB00500
		catechol sulfate	C00090	HMDB59724
		O-methylcatechol sulfate		
		4-methylcatechol sulfate		
		methyl-4-hydroxybenzoate	D01400	HMDB32572
Xenobiot ics		4-ethylphenylsulfate	C13637	
		4-vinylphenol sulfate	C05627	HMDB04072
		propyl 4-hydroxybenzoate sulfate		
		caffeine	C07481	HMDB01847
	Xanthine Metabolism	paraxanthine	C13747	HMDB01860
		theobromine	C07480	HMDB02825
		theophylline	C07130	HMDB01889
	Food	1,3-dimethylurate		HMDB01857
		1,6-anhydroglucose		HMDB00640

Component/Plant	2,3-dihydroxyisovalerate	C04039	HMDB12141
	gluconate	C00257	HMDB00625
	N-acetylalliin*		
	ergothioneine	C05570	HMDB03045
	erythritol	C00503	HMDB02994
	piperine	C03882	HMDB29377
	quinat	C00296	HMDB03072
	stachydrine	C10172	HMDB04827
	tartarate	C00898	HMDB00956
	3-(cystein-S-yl)acetaminophen*		
	4-acetaminophen sulfate	C06804	HMDB59911
	4-acetamidophenol	C06804	HMDB01859
	4-acetamidophenylglucuronide		HMDB10316
	furosemide	D00331	HMDB01933
	indomethacin	C01926	HMDB14473
	metformin	C07151	HMDB01921
Drug	metoprolol	D02358	HMDB01932
	metoprolol acid metabolite*		
	ofloxacin	C07321	HMDB01929
	omeprazole	C07324	HMDB01913
	pantoprazole	C11806	HMDB05017
	phenobarbital	C07434	HMDB15305
	1,2-propanediol	C00583	HMDB01881
	O-sulfo-L-tyrosine		
	2-ethylhexanoate		HMDB31230
	2-hydroxyisobutyrate		HMDB00729
Chemical	EDTA	C00284	HMDB15109
	glycerol 2-phosphate	C02979	HMDB02520
	iminodiacetate (IDA)	C19911	HMDB11753
	trizma acetate	C07182	
	N-methylpipercolate		
	4-hydroxychlorothalonil		