

Supplementary Figure 1: Equipotent doses of antibiotics had the same effects on *Chlamydia* and *Hi* infection.

A

One way ANOVA (Total cells)	Mean Diff.	Summary	P Value
Sal vs. Ova	-29.66	****	< 0.0001
Sal vs. Ova/Dex	-7.919	**	0.0058
Sal vs. Ova/Clari	-15.5	****	< 0.0001
Sal vs. Ova/Clari/Dex	-15.16	****	< 0.0001
Sal vs. Ova/Amox	-24.42	****	< 0.0001
Sal vs. Ova/Amox/Dex	-6.136	*	0.0369
Ova vs. Ova/Dex	21.74	****	< 0.0001
Ova vs. Ova/Clari	14.16	***	0.0001
Ova vs. Ova/Clari/Dex	14.5	****	< 0.0001
Ova vs. Ova/Amox	5.237	ns	0.1002
Ova vs. Ova/Amox/Dex	23.52	****	< 0.0001
Ova/Dex vs. Ova/Clari	-7.585	*	0.0155
Ova/Dex vs. Ova/Clari/Dex	-7.243	*	0.0205
Ova/Dex vs. Ova/Amox	-16.5	****	< 0.0001
Ova/Dex vs. Ova/Amox/Dex	1.784	ns	0.5553
Ova/Clari vs. Ova/Clari/Dex	0.3416	ns	0.9131
Ova/Clari vs. Ova/Amox	-8.919	**	0.0066
Ova/Clari vs. Ova/Amox/Dex	9.368	**	0.0045
Ova/Clari/Dex vs. Ova/Amox	-9.26	**	0.005
Ova/Clari/Dex vs. Ova/Amox/Dex	9.027	**	0.0061
Ova/Amox vs. Ova/Amox/Dex	18.29	****	< 0.0001

B

One way ANOVA (Neutrophils)	Mean Diff.	Summary	P Value
Sal vs. Ova	-6.929	****	< 0.0001
Sal vs. Ova/Dex	-3.139	**	0.002
Sal vs. Ova/Clari	-3.552	***	0.0009
Sal vs. Ova/Clari/Dex	-4.421	***	0.0001
Sal vs. Ova/Amox	-4.118	***	0.0002
Sal vs. Ova/Amox/Dex	-2.591	*	0.0122
Ova vs. Ova/Dex	3.79	***	0.0005
Ova vs. Ova/Clari	3.377	**	0.0021
Ova vs. Ova/Clari/Dex	2.508	*	0.0246
Ova vs. Ova/Amox	2.811	**	0.0091
Ova vs. Ova/Amox/Dex	4.339	***	0.0001
Ova/Dex vs. Ova/Clari	-0.4132	ns	0.6764
Ova/Dex vs. Ova/Clari/Dex	-1.282	ns	0.2228
Ova/Dex vs. Ova/Amox	-0.9792	ns	0.3254
Ova/Dex vs. Ova/Amox/Dex	0.5483	ns	0.5801
Ova/Clari vs. Ova/Clari/Dex	-0.869	ns	0.4216
Ova/Clari vs. Ova/Amox	-0.5659	ns	0.5821
Ova/Clari vs. Ova/Amox/Dex	0.9616	ns	0.3517
Ova/Clari/Dex vs. Ova/Amox	0.3031	ns	0.7784
Ova/Clari/Dex vs. Ova/Amox/Dex	1.831	ns	0.0954
Ova/Amox vs. Ova/Amox/Dex	1.528	ns	0.1427

C

One way ANOVA (Eosinophils)	Mean Diff.	Summary	P Value
Sal vs. Ova	-9.495	****	< 0.0001
Sal vs. Ova/Dex	-0.6594	ns	0.3838
Sal vs. Ova/Clari	-3.165	***	0.0002
Sal vs. Ova/Clari/Dex	-0.834	ns	0.324
Sal vs. Ova/Amox	-0.771	ns	0.3326
Sal vs. Ova/Amox/Dex	-0.1742	ns	0.8257
Ova vs. Ova/Dex	8.835	****	< 0.0001
Ova vs. Ova/Clari	6.329	***	0.0001
Ova vs. Ova/Clari/Dex	8.661	****	< 0.0001
Ova vs. Ova/Amox	8.724	****	< 0.0001
Ova vs. Ova/Amox/Dex	9.321	****	< 0.0001
Ova/Dex vs. Ova/Clari	-2.506	**	0.0059
Ova/Dex vs. Ova/Clari/Dex	-0.1746	ns	0.8483
Ova/Dex vs. Ova/Amox	-0.1115	ns	0.8977
Ova/Dex vs. Ova/Amox/Dex	0.4852	ns	0.5765
Ova/Clari vs. Ova/Clari/Dex	2.331	*	0.0172
Ova/Clari vs. Ova/Amox	2.394	*	0.0107
Ova/Clari vs. Ova/Amox/Dex	2.991	**	0.0018
Ova/Clari/Dex vs. Ova/Amox	0.06309	ns	0.9467
Ova/Clari/Dex vs. Ova/Amox/Dex	0.6599	ns	0.4857
Ova/Amox vs. Ova/Amox/Dex	0.5968	ns	0.5083

D

One way ANOVA (Macrophages)	Mean Diff.	Summary	P Value
Sal vs. Ova	-11.2	****	< 0.0001
Sal vs. Ova/Dex	-3.736	*	0.0291
Sal vs. Ova/Clari	-7.779	****	< 0.0001
Sal vs. Ova/Clari/Dex	-9.316	****	< 0.0001
Sal vs. Ova/Amox	-18.71	****	< 0.0001
Sal vs. Ova/Amox/Dex	-3.038	ns	0.0858
Ova vs. Ova/Dex	7.468	***	0.0002
Ova vs. Ova/Clari	3.425	ns	0.0774
Ova vs. Ova/Clari/Dex	1.888	ns	0.3462
Ova vs. Ova/Amox	-7.504	**	0.0058
Ova vs. Ova/Amox/Dex	8.166	***	0.0001
Ova/Dex vs. Ova/Clari	-4.043	*	0.0322
Ova/Dex vs. Ova/Clari/Dex	-5.581	**	0.0059
Ova/Dex vs. Ova/Amox	-14.97	****	< 0.0001
Ova/Dex vs. Ova/Amox/Dex	0.6974	ns	0.7034
Ova/Clari vs. Ova/Clari/Dex	-1.537	ns	0.4421
Ova/Clari vs. Ova/Amox	-10.93	****	< 0.0001
Ova/Clari vs. Ova/Amox/Dex	4.741	*	0.0164
Ova/Clari/Dex vs. Ova/Amox	-9.391	****	< 0.0001
Ova/Clari/Dex vs. Ova/Amox/Dex	6.278	**	0.003
Ova/Amox vs. Ova/Amox/Dex	15.67	****	< 0.0001

Supplementary Figure 2: Bronchoalveolar lavage fluid (BALF) full statistical analyses for all steroid-sensitive allergic airways disease (AAD) groups.

A

One way ANOVA (Total cells)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-36.72	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-42.94	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Clari	-18.2	**	0.0053
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-16.81	**	0.0095
Sal/Cmu vs. Ova/Cmu/Amox	-26.15	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-3.443	ns	0.5581
Ova/Cmu vs. Ova/Cmu/Dex	-6.224	ns	0.2874
Ova/Cmu vs. Ova/Cmu/Clari	18.52	**	0.0058
Ova/Cmu vs. Ova/Cmu/Clari/Dex	19.91	**	0.0032
Ova/Cmu vs. Ova/Cmu/Amox	10.57	ns	0.0865
Ova/Cmu vs. Ova/Cmu/Amox/Dex	33.28	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/Clari	24.74	***	0.0004
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	26.13	***	0.0002
Ova/Cmu/Dex vs. Ova/Cmu/Amox	16.79	**	0.0081
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	39.5	****	< 0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	1.391	ns	0.8396
Ova/Cmu/Clari vs. Ova/Cmu/Amox	-7.947	ns	0.2314
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	14.76	*	0.0298
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	-9.338	ns	0.1612
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	13.37	*	0.0478
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	22.71	***	0.0008

B

One way ANOVA (Neutrophils)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-15.84	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-20.39	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Clari	-8.185	*	0.0185
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-14.08	***	0.0001
Sal/Cmu vs. Ova/Cmu/Amox	-4.783	ns	0.1368
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-3.688	ns	0.2484
Ova/Cmu vs. Ova/Cmu/Dex	-4.555	ns	0.1681
Ova/Cmu vs. Ova/Cmu/Clari	7.651	*	0.031
Ova/Cmu vs. Ova/Cmu/Clari/Dex	1.759	ns	0.6089
Ova/Cmu vs. Ova/Cmu/Amox	11.05	**	0.0016
Ova/Cmu vs. Ova/Cmu/Amox/Dex	12.15	***	0.0006
Ova/Cmu/Dex vs. Ova/Cmu/Clari	12.21	**	0.0014
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	6.314	ns	0.0816
Ova/Cmu/Dex vs. Ova/Cmu/Amox	15.61	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	16.7	****	< 0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-5.892	ns	0.1182
Ova/Cmu/Clari vs. Ova/Cmu/Amox	3.402	ns	0.3408
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	4.497	ns	0.2101
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	9.294	*	0.0123
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	10.39	**	0.0056
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	1.095	ns	0.7463

C

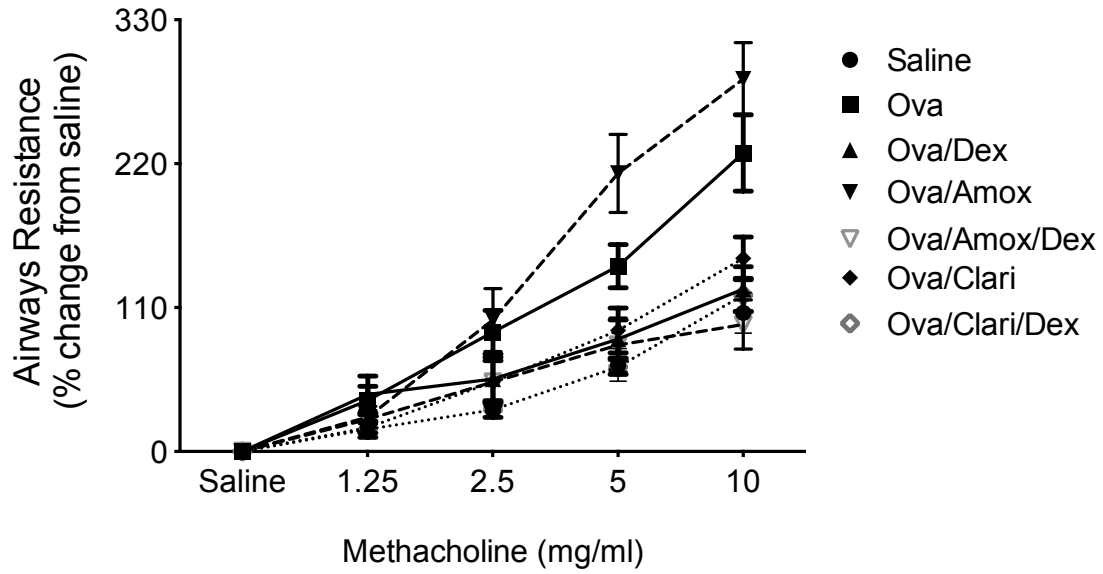
One way ANOVA (Eosinophils)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-1.437	***	0.0005
Sal/Cmu vs. Ova/Cmu/Dex	-0.9842	*	0.0166
Sal/Cmu vs. Ova/Cmu/Clari	-1.87	***	0.0001
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-0.6603	ns	0.1353
Sal/Cmu vs. Ova/Cmu/Amox	-0.2568	ns	0.5348
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-0.1702	ns	0.6803
Ova/Cmu vs. Ova/Cmu/Dex	0.453	ns	0.256
Ova/Cmu vs. Ova/Cmu/Clari	-0.4331	ns	0.3232
Ova/Cmu vs. Ova/Cmu/Clari/Dex	0.777	ns	0.0805
Ova/Cmu vs. Ova/Cmu/Amox	1.18	**	0.0065
Ova/Cmu vs. Ova/Cmu/Amox/Dex	1.267	**	0.0037
Ova/Cmu/Dex vs. Ova/Cmu/Clari	-0.8861	ns	0.0534
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	0.3239	ns	0.4706
Ova/Cmu/Dex vs. Ova/Cmu/Amox	0.7274	ns	0.0931
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	0.814	ns	0.0614
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	1.21	*	0.016
Ova/Cmu/Clari vs. Ova/Cmu/Amox	1.614	**	0.0012
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	1.7	***	0.0007
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	0.4035	ns	0.3855
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	0.4901	ns	0.293
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	0.08658	ns	0.8444

D

One way ANOVA (Macrophages)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-16.4	***	0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-12.37	**	0.0012
Sal/Cmu vs. Ova/Cmu/Clari	-6.777	ns	0.0897
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-1.073	ns	0.7986
Sal/Cmu vs. Ova/Cmu/Amox	-20.12	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Amox/Dex	0.4851	ns	0.8959
Ova/Cmu vs. Ova/Cmu/Dex	4.023	ns	0.2769
Ova/Cmu vs. Ova/Cmu/Clari	9.619	*	0.0212
Ova/Cmu vs. Ova/Cmu/Clari/Dex	15.32	***	0.001
Ova/Cmu vs. Ova/Cmu/Amox	-3.72	ns	0.3332
Ova/Cmu vs. Ova/Cmu/Amox/Dex	16.88	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/Clari	5.596	ns	0.1695
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	11.3	*	0.012
Ova/Cmu/Dex vs. Ova/Cmu/Amox	-7.743	*	0.0486
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	12.86	**	0.0017
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	5.704	ns	0.2203
Ova/Cmu/Clari vs. Ova/Cmu/Amox	-13.34	**	0.0026
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	7.262	ns	0.087
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	-19.04	***	0.0001
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	1.558	ns	0.7254
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	20.6	****	< 0.0001

Supplementary Figure 3: BALF full statistical analyses for all severe, steroid-insensitive AAD groups (SSIAAD).

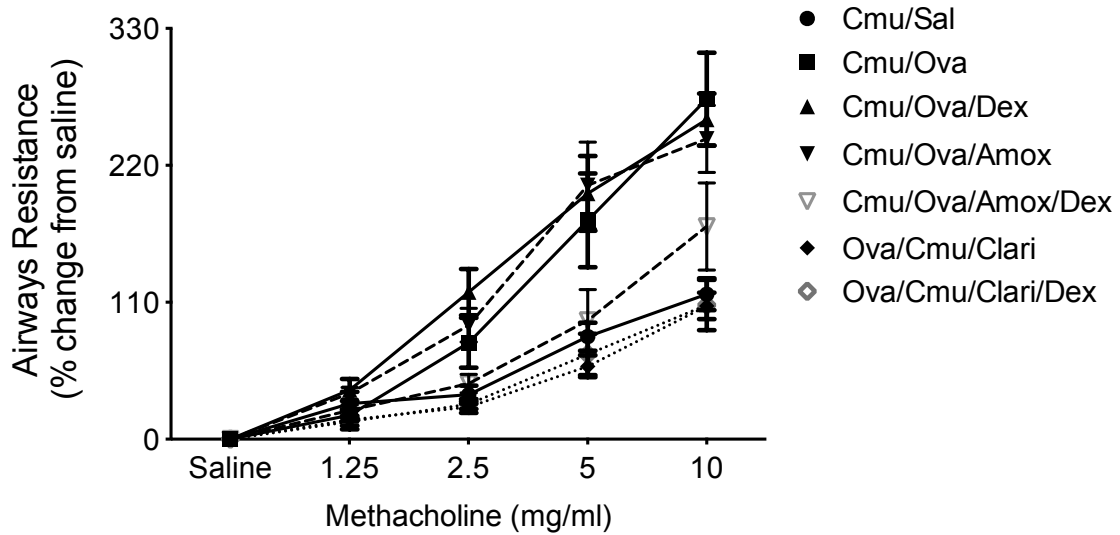
A



B

One way ANOVA (10mg/ml Mch)	Mean Diff.	Summary	P Value
Sal vs. Ova	-122.3	***	0.0001
Sal vs. Ova/Dex	-18.22	ns	0.5587
Sal vs. Ova/Clari	-41.77	ns	0.1471
Sal vs. Ova/Clari/Dex	-13.66	ns	0.6734
Sal vs. Ova/Amox	-178.7	****	< 0.0001
Sal vs. Ova/Amox/Dex	8.873	ns	0.7682
Ova vs. Ova/Dex	104.1	**	0.0017
Ova vs. Ova/Clari	80.51	**	0.0076
Ova vs. Ova/Clari/Dex	108.6	**	0.0016
Ova vs. Ova/Amox	-56.46	ns	0.0573
Ova vs. Ova/Amox/Dex	131.2	***	0.0001
Ova/Dex vs. Ova/Clari	-23.55	ns	0.4503
Ova/Dex vs. Ova/Clari/Dex	4.564	ns	0.8952
Ova/Dex vs. Ova/Amox	-160.5	****	< 0.0001
Ova/Dex vs. Ova/Amox/Dex	27.09	ns	0.4064
Ova/Clari vs. Ova/Clari/Dex	28.11	ns	0.3867
Ova/Clari vs. Ova/Amox	-137	****	< 0.0001
Ova/Clari vs. Ova/Amox/Dex	50.64	ns	0.0963
Ova/Clari/Dex vs. Ova/Amox	-165.1	****	< 0.0001
Ova/Clari/Dex vs. Ova/Amox/Dex	22.53	ns	0.5052
Ova/Amox vs. Ova/Amox/Dex	187.6	****	< 0.0001

C



D

One Way ANOVA (10mg/ml Mch)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-156.7	***	0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-126.7	***	0.0007
Sal/Cmu vs. Ova/Cmu/Clari	9.503	ns	0.7934
Sal/Cmu vs. Ova/Cmu/Clari/Dex	8.657	ns	0.8114
Sal/Cmu vs. Ova/Cmu/Amox	-124.8	**	0.001
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-42.36	ns	0.2599
Ova/Cmu vs. Ova/Cmu/Dex	30.05	ns	0.3841
Ova/Cmu vs. Ova/Cmu/Clari	166.2	***	0.0001
Ova/Cmu vs. Ova/Cmu/Clari/Dex	165.4	***	0.0001
Ova/Cmu vs. Ova/Cmu/Amox	31.92	ns	0.3684
Ova/Cmu vs. Ova/Cmu/Amox/Dex	114.4	**	0.0026
Ova/Cmu/Dex vs. Ova/Cmu/Clari	136.2	***	0.0003
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	135.3	***	0.0003
Ova/Cmu/Dex vs. Ova/Cmu/Amox	1.867	ns	0.9579
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	84.31	*	0.0239
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-0.8453	ns	0.9814
Ova/Cmu/Clari vs. Ova/Cmu/Amox	-134.3	***	0.0005
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	-51.86	ns	0.169
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	-133.5	***	0.0005
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	-51.02	ns	0.1759
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	82.45	*	0.0308

Supplementary Figure 4: Clarithromycin and not amoxicillin suppresses airways hyperresponsiveness (AHR) in both steroid-sensitive and SSI AAD groups.

A

One Way ANOVA (LN IL-5)	Mean Diff.	Summary	P Value
Sal vs. Ova	-16.5	***	0.0001
Sal vs. Ova/Dex	-6.815	ns	0.1059
Sal vs. Ova/Amox	-13.68	**	0.002
Sal vs. Ova/Amox/Dex	-6.887	ns	0.0802
Sal vs. Ova/Clari	-4.893	ns	0.2594
Sal vs. Ova/Clari/Dex	-6.145	ns	0.2723
Ova vs. Ova/Dex	9.682	**	0.0057
Ova vs. Ova/Amox	2.818	ns	0.3968
Ova vs. Ova/Amox/Dex	9.61	**	0.0023
Ova vs. Ova/Clari	11.6	**	0.0021
Ova vs. Ova/Clari/Dex	10.35	*	0.0429
Ova/Dex vs. Ova/Amox	-6.864	ns	0.07
Ova/Dex vs. Ova/Amox/Dex	-0.07223	ns	0.9829
Ova/Dex vs. Ova/Clari	1.922	ns	0.6209
Ova/Dex vs. Ova/Clari/Dex	0.6695	ns	0.8982
Ova/Amox vs. Ova/Amox/Dex	6.792	ns	0.0505
Ova/Amox vs. Ova/Clari	8.786	*	0.0288
Ova/Amox vs. Ova/Clari/Dex	7.533	ns	0.1559
Ova/Amox/Dex vs. Ova/Clari	1.994	ns	0.5777
Ova/Amox/Dex vs. Ova/Clari/Dex	0.7417	ns	0.8823
Ova/Clari vs. Ova/Clari/Dex	-1.253	ns	0.8153

B

One Way ANOVA (LN IL-13)	Mean Diff.	Summary	P Value
Sal vs. Ova	-18.43	****	< 0.0001
Sal vs. Ova/Dex	4.385	ns	0.2444
Sal vs. Ova/Amox	2.256	ns	0.5274
Sal vs. Ova/Amox/Dex	2.5	ns	0.4962
Sal vs. Ova/Clari	3.65	ns	0.3994
Sal vs. Ova/Clar/Dex	-0.117	ns	0.98
Ova vs. Ova/Dex	22.82	****	< 0.0001
Ova vs. Ova/Amox	20.69	****	< 0.0001
Ova vs. Ova/Amox/Dex	20.93	****	< 0.0001
Ova vs. Ova/Clari	22.08	****	< 0.0001
Ova vs. Ova/Clar/Dex	18.31	***	0.0001
Ova/Dex vs. Ova/Amox	-2.129	ns	0.454
Ova/Dex vs. Ova/Amox/Dex	-1.884	ns	0.5258
Ova/Dex vs. Ova/Clari	-0.735	ns	0.844
Ova/Dex vs. Ova/Clar/Dex	-4.502	ns	0.2791
Ova/Amox vs. Ova/Amox/Dex	0.2446	ns	0.9289
Ova/Amox vs. Ova/Clari	1.394	ns	0.6956
Ova/Amox vs. Ova/Clar/Dex	-2.373	ns	0.5511
Ova/Amox/Dex vs. Ova/Clari	1.149	ns	0.7539
Ova/Amox/Dex vs. Ova/Clar/Dex	-2.617	ns	0.5207
Ova/Clari vs. Ova/Clar/Dex	-3.767	ns	0.4205

C

One Way ANOVA (LN TNF α)	Mean Diff.	Summary	P Value
Sal vs. Ova	-245	*	0.0264
Sal vs. Ova/Dex	-109.8	ns	0.3468
Sal vs. Ova/Amox	-271.7	**	0.0092
Sal vs. Ova/Amox/Dex	-2.561	ns	0.9807
Sal vs. Ova/Clari	36.31	ns	0.7541
Sal vs. Ova/Clari/Dex	15.23	ns	0.8954
Ova vs. Ova/Dex	135.2	ns	0.2073
Ova vs. Ova/Amox	-26.75	ns	0.7569
Ova vs. Ova/Amox/Dex	242.4	*	0.0149
Ova vs. Ova/Clari	281.3	*	0.0118
Ova vs. Ova/Clari/Dex	260.2	*	0.0189
Ova/Dex vs. Ova/Amox	-161.9	ns	0.1076
Ova/Dex vs. Ova/Amox/Dex	107.2	ns	0.3147
Ova/Dex vs. Ova/Clari	146.1	ns	0.2132
Ova/Dex vs. Ova/Clari/Dex	125	ns	0.2851
Ova/Amox vs. Ova/Amox/Dex	269.1	**	0.0037
Ova/Amox vs. Ova/Clari	308	**	0.0036
Ova/Amox vs. Ova/Clari/Dex	286.9	**	0.0063
Ova/Amox/Dex vs. Ova/Clari	38.88	ns	0.7134
Ova/Amox/Dex vs. Ova/Clari/Dex	17.79	ns	0.8664
Ova/Clari vs. Ova/Clari/Dex	-21.08	ns	0.8556

D

One Way ANOVA (LN IL-5)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-6.628	*	0.0132
Sal/Cmu vs. Ova/Cmu/Dex	-8.195	***	0.0008
Sal/Cmu vs. Ova/Cmu/Amox	-7.154	**	0.0019
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-4.672	*	0.0411
Sal/Cmu vs. Ova/Cmu/Clari	-7.497	**	0.0085
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-4.909	ns	0.0778
Ova/Cmu vs. Ova/Cmu/Dex	-1.566	ns	0.4916
Ova/Cmu vs. Ova/Cmu/Amox	-0.5256	ns	0.8085
Ova/Cmu vs. Ova/Cmu/Amox/Dex	1.956	ns	0.3826
Ova/Cmu vs. Ova/Cmu/Clari	-0.8691	ns	0.7505
Ova/Cmu vs. Ova/Cmu/Clari/Dex	1.72	ns	0.5299
Ova/Cmu/Dex vs. Ova/Cmu/Amox	1.041	ns	0.5629
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	3.522	ns	0.0651
Ova/Cmu/Dex vs. Ova/Cmu/Clari	0.6972	ns	0.7758
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	3.286	ns	0.1839
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	2.481	ns	0.1596
Ova/Cmu/Amox vs. Ova/Cmu/Clari	-0.3436	ns	0.8838
Ova/Cmu/Amox vs. Ova/Cmu/Clari/Dex	2.245	ns	0.3421
Ova/Cmu/Amox/Dex vs. Ova/Cmu/Clari	-2.825	ns	0.2447
Ova/Cmu/Amox/Dex vs. Ova/Cmu/Clari/Dex	-0.2363	ns	0.9219
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	2.589	ns	0.3709

E

One Way ANOVA (LN IL-13)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-4.361	ns	0.1342
Sal/Cmu vs. Ova/Cmu/Dex	-1.264	ns	0.6432
Sal/Cmu vs. Ova/Cmu/Amox	6.965	*	0.0151
Sal/Cmu vs. Ova/Cmu/Amox/Dex	7.519	**	0.0092
Sal/Cmu vs. Ova/Cmu/Clari	-2.037	ns	0.5051
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-5.944	ns	0.0584
Ova/Cmu vs. Ova/Cmu/Dex	3.097	ns	0.2831
Ova/Cmu vs. Ova/Cmu/Amox	11.33	**	0.004
Ova/Cmu vs. Ova/Cmu/Amox/Dex	11.88	**	0.002
Ova/Cmu vs. Ova/Cmu/Clari	2.324	ns	0.4649
Ova/Cmu vs. Ova/Cmu/Clari/Dex	-1.583	ns	0.6177
Ova/Cmu/Dex vs. Ova/Cmu/Amox	8.229	**	0.0048
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	8.783	**	0.0028
Ova/Cmu/Dex vs. Ova/Cmu/Clari	-0.7732	ns	0.7997
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	-4.68	ns	0.1318
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	0.5535	ns	0.839
Ova/Cmu/Amox vs. Ova/Cmu/Clari	-9.003	**	0.0057
Ova/Cmu/Amox vs. Ova/Cmu/Clari/Dex	-12.91	***	0.0002
Ova/Cmu/Amox/Dex vs. Ova/Cmu/Clari	-9.556	**	0.0036
Ova/Cmu/Amox/Dex vs. Ova/Cmu/Clari/Dex	-13.46	***	0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-3.906	ns	0.247

F

One Way ANOVA (LN TNFα)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-391.6	*	0.0321
Sal/Cmu vs. Ova/Cmu/Dex	-270.4	ns	0.1566
Sal/Cmu vs. Ova/Cmu/Amox	-303.2	ns	0.0811
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-271	ns	0.1322
Sal/Cmu vs. Ova/Cmu/Clari	-71.49	ns	0.7046
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-80.68	ns	0.7227
Ova/Cmu vs. Ova/Cmu/Dex	121.2	ns	0.472
Ova/Cmu vs. Ova/Cmu/Amox	88.41	ns	0.55
Ova/Cmu vs. Ova/Cmu/Amox/Dex	120.6	ns	0.4399
Ova/Cmu vs. Ova/Cmu/Clari	-123.3	*	0.0140
Ova/Cmu vs. Ova/Cmu/Clari/Dex	-145.3	*	0.0242
Ova/Cmu/Dex vs. Ova/Cmu/Amox	-32.82	ns	0.8382
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	-0.6147	ns	0.9971
Ova/Cmu/Dex vs. Ova/Cmu/Clari	198.9	ns	0.2719
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	189.7	ns	0.3908
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	32.21	ns	0.8273
Ova/Cmu/Amox vs. Ova/Cmu/Clari	231.7	ns	0.1546
Ova/Cmu/Amox vs. Ova/Cmu/Clari/Dex	222.5	ns	0.2809
Ova/Cmu/Amox/Dex vs. Ova/Cmu/Clari	199.5	ns	0.2393
Ova/Cmu/Amox/Dex vs. Ova/Cmu/Clari/Dex	190.3	ns	0.3687
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-9.194	ns	0.9667

G

One Way ANOVA (Lung IL-5)	Mean Diff.	Summary	P Value
Sal vs. Ova	-0.004648	*	0.0118
Sal vs. Ova/Dex	-0.002653	ns	0.1046
Sal vs. Ova/Clari	-0.003961	*	0.0243
Sal vs. Ova/Clari/Dex	-0.003023	ns	0.0805
Sal vs. OVA/Amox	-0.006989	***	0.0006
Sal vs. Ova/Amox/Dex	-0.001523	ns	0.3878
Ova vs. Ova/Dex	0.001995	ns	0.1866
Ova vs. Ova/Clari	0.0006874	ns	0.6643
Ova vs. Ova/Clari/Dex	0.001626	ns	0.3082
Ova vs. OVA/Amox	-0.002341	ns	0.1878
Ova vs. Ova/Amox/Dex	-0.003126	*	0.0463
Ova/Dex vs. Ova/Clari	-0.001308	ns	0.3573
Ova/Dex vs. Ova/Clari/Dex	-0.0003694	ns	0.7936
Ova/Dex vs. OVA/Amox	-0.004336	*	0.0103
Ova/Dex vs. Ova/Amox/Dex	0.001131	ns	0.4498
Ova/Clari vs. Ova/Clari/Dex	0.0009382	ns	0.5352
Ova/Clari vs. OVA/Amox	-0.003028	ns	0.0799
Ova/Clari vs. Ova/Amox/Dex	0.002438	ns	0.1303
Ova/Clari/Dex vs. OVA/Amox	-0.003967	*	0.0241
Ova/Clari/Dex vs. Ova/Amox/Dex	0.0015	ns	0.3465
OVA/Amox vs. Ova/Amox/Dex	0.005467	**	0.0036

H

One Way ANOVA (Lung IL-13)	Mean Diff.	Summary	P Value
Sal vs. Ova	-0.0226	***	0.0005
Sal vs. Ova/Dex	-0.00405	ns	0.4897
Sal vs. Ova/Clari	-0.009566	ns	0.1095
Sal vs. Ova/Clari/Dex	-0.03294	****	< 0.0001
Sal vs. OVA/Amox	-0.02017	**	0.0036
Sal vs. Ova/Amox/Dex	-0.02254	***	0.0008
Ova vs. Ova/Dex	0.01855	**	0.0013
Ova vs. Ova/Clari	0.01304	*	0.0178
Ova vs. Ova/Clari/Dex	-0.01034	ns	0.0848
Ova vs. OVA/Amox	0.002427	ns	0.6782
Ova vs. Ova/Amox/Dex	6.13E-05	ns	0.9911
Ova/Dex vs. Ova/Clari	-0.005515	ns	0.2957
Ova/Dex vs. Ova/Clari/Dex	-0.02889	****	< 0.0001
Ova/Dex vs. OVA/Amox	-0.01612	**	0.0095
Ova/Dex vs. Ova/Amox/Dex	-0.01849	**	0.002
Ova/Clari vs. Ova/Clari/Dex	-0.02337	***	0.0004
Ova/Clari vs. OVA/Amox	-0.01061	ns	0.0774
Ova/Clari vs. Ova/Amox/Dex	-0.01297	*	0.0238
Ova/Clari/Dex vs. OVA/Amox	0.01277	ns	0.0537
Ova/Clari/Dex vs. Ova/Amox/Dex	0.0104	ns	0.0947
OVA/Amox vs. Ova/Amox/Dex	-0.002365	ns	0.6971

I

One Way ANOVA (Lung TNF α)	Mean Diff.	Summary	P Value
Sal vs. Ova	-0.04439	**	0.0022
Sal vs. Ova/Dex	-0.0131	ns	0.2905
Sal vs. Ova/Clari	-0.05271	***	0.0004
Sal vs. Ova/Clari/Dex	-0.01317	ns	0.3359
Sal vs. OVA/Amox	-0.06977	****	< 0.0001
Sal vs. Ova/Amox/Dex	-0.01383	ns	0.3123
Ova vs. Ova/Dex	0.03129	**	0.0055
Ova vs. Ova/Clari	-0.008316	ns	0.4955
Ova vs. Ova/Clari/Dex	0.03122	*	0.0138
Ova vs. OVA/Amox	-0.02538	ns	0.0525
Ova vs. Ova/Amox/Dex	0.03056	*	0.0158
Ova/Dex vs. Ova/Clari	-0.03961	***	0.0006
Ova/Dex vs. Ova/Clari/Dex	-6.69E-05	ns	0.995
Ova/Dex vs. OVA/Amox	-0.05667	****	< 0.0001
Ova/Dex vs. Ova/Amox/Dex	-0.0007336	ns	0.9453
Ova/Clari vs. Ova/Clari/Dex	0.03954	**	0.0023
Ova/Clari vs. OVA/Amox	-0.01707	ns	0.1861
Ova/Clari vs. Ova/Amox/Dex	0.03887	**	0.0027
Ova/Clari/Dex vs. OVA/Amox	-0.05661	****	< 0.0001
Ova/Clari/Dex vs. Ova/Amox/Dex	-0.0006667	ns	0.9563
OVA/Amox vs. Ova/Amox/Dex	0.05594	****	< 0.0001

J

One Way ANOVA (Lung IL-5)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-0.002613	*	0.042
Sal/Cmu vs. Ova/Cmu/Dex	-0.004932	***	0.0004
Sal/Cmu vs. Ova/Cmu/Clari	-0.002052	ns	0.1193
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-0.002638	*	0.0479
Sal/Cmu vs. Ova/Cmu/Amox	-0.009516	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-0.002338	ns	0.0672
Ova/Cmu vs. Ova/Cmu/Dex	-0.002319	*	0.0436
Ova/Cmu vs. Ova/Cmu/Clari	0.0005616	ns	0.6305
Ova/Cmu vs. Ova/Cmu/Clari/Dex	-2.42E-05	ns	0.9835
Ova/Cmu vs. Ova/Cmu/Amox	-0.006903	***	0.0001
Ova/Cmu vs. Ova/Cmu/Amox/Dex	0.0002758	ns	0.804
Ova/Cmu/Dex vs. Ova/Cmu/Clari	0.00288	*	0.0183
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	0.002295	ns	0.0561
Ova/Cmu/Dex vs. Ova/Cmu/Amox	-0.004584	***	0.0002
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	0.002595	*	0.0251
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-0.0005858	ns	0.631
Ova/Cmu/Clari vs. Ova/Cmu/Amox	-0.007464	****	< 0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	-0.0002858	ns	0.8064
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	-0.006879	****	< 0.0001
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	0.0003	ns	0.7969
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	0.007179	****	< 0.0001

K

One Way ANOVA (Lung IL-13)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-0.008211	**	0.0053
Sal/Cmu vs. Ova/Cmu/Dex	-0.01093	***	0.0004
Sal/Cmu vs. Ova/Cmu/Clari	-0.005066	ns	0.0837
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-0.01958	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Amox	-0.02586	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-0.01913	****	< 0.0001
Ova/Cmu vs. Ova/Cmu/Dex	-0.002716	ns	0.2737
Ova/Cmu vs. Ova/Cmu/Clari	0.003144	ns	0.2279
Ova/Cmu vs. Ova/Cmu/Clari/Dex	-0.01136	***	0.0002
Ova/Cmu vs. Ova/Cmu/Amox	-0.01765	****	< 0.0001
Ova/Cmu vs. Ova/Cmu/Amox/Dex	-0.01091	***	0.0002
Ova/Cmu/Dex vs. Ova/Cmu/Clari	0.00586	*	0.0291
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	-0.008649	**	0.0035
Ova/Cmu/Dex vs. Ova/Cmu/Amox	-0.01494	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	-0.008199	**	0.0032
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-0.01451	****	< 0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Amox	-0.0208	****	< 0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	-0.01406	****	< 0.0001
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	-0.006289	*	0.0281
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	0.00045	ns	0.8747
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	0.006739	*	0.0132

L

One Way ANOVA (Lung TNFα)	Mean Diff.	Summary	P Value
Sal/Cmu vs. Ova/Cmu	-0.2815	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-0.2116	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Clari	-0.07327	ns	0.0921
Sal/Cmu vs. Ova/Cmu/Clari/Dex	-0.09153	*	0.0378
Sal/Cmu vs. Ova/Cmu/Amox	-0.1945	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Amox/Dex	-0.0235	ns	0.5628
Ova/Cmu vs. Ova/Cmu/Dex	0.06994	ns	0.1223
Ova/Cmu vs. Ova/Cmu/Clari	0.2083	****	< 0.0001
Ova/Cmu vs. Ova/Cmu/Clari/Dex	0.19	***	0.0002
Ova/Cmu vs. Ova/Cmu/Amox	0.08703	ns	0.0571
Ova/Cmu vs. Ova/Cmu/Amox/Dex	0.258	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/Clari	0.1383	**	0.0037
Ova/Cmu/Dex vs. Ova/Cmu/Clari/Dex	0.1201	*	0.0105
Ova/Cmu/Dex vs. Ova/Cmu/Amox	0.01709	ns	0.7005
Ova/Cmu/Dex vs. Ova/Cmu/Amox/Dex	0.1881	***	0.0001
Ova/Cmu/Clari vs. Ova/Cmu/Clari/Dex	-0.01826	ns	0.681
Ova/Cmu/Clari vs. Ova/Cmu/Amox	-0.1212	**	0.0098
Ova/Cmu/Clari vs. Ova/Cmu/Amox/Dex	0.04977	ns	0.2466
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox	-0.103	*	0.0261
Ova/Cmu/Clari/Dex vs. Ova/Cmu/Amox/Dex	0.06803	ns	0.1167
Ova/Cmu/Amox vs. Ova/Cmu/Amox/Dex	0.171	***	0.0003

Supplementary Figure 5: Inflammatory mediator full statistical analyses for all steroid-sensitive and SSIAAD groups.

A

One way ANOVA (Total cells)	Mean Diff.	Summary	P Value
Sal vs. Ova	-25.3	***	0.0001
Sal vs. Ova/Dex	-0.7806	ns	0.8914
Sal vs. Sal/Cmu	-14.54	*	0.0352
Sal vs. Ova/Cmu	-51.13	****	< 0.0001
Sal vs. Ova/Cmu/Dex	-41.47	****	< 0.0001
Sal vs. Ova/Cmu/ α TNF- α	-13.62	*	0.0309
Ova vs. Ova/Dex	24.52	***	0.0001
Ova vs. Sal/Cmu	10.75	ns	0.058
Ova vs. Ova/Cmu	-25.84	***	0.0001
Ova vs. Ova/Cmu/Dex	-16.18	**	0.0028
Ova vs. Ova/Cmu/ α TNF- α	11.67	*	0.0192
Ova vs. Ova/Cmu/ α TNF- α /Dex	26	****	< 0.0001
Ova/Dex vs. Sal/Cmu	-13.76	*	0.0197
Ova/Dex vs. Ova/Cmu	-50.35	****	< 0.0001
Ova/Dex vs. Ova/Cmu/Dex	-40.69	****	< 0.0001
Ova/Dex vs. Ova/Cmu/ α TNF- α	-12.84	*	0.0135
Sal/Cmu vs. Ova/Cmu	-36.59	***	0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-26.93	***	0.0001
Sal/Cmu vs. Ova/Cmu/ α TNF- α	0.9192	ns	0.881
Ova/Cmu vs. Ova/Cmu/Dex	9.658	ns	0.0989
Ova/Cmu vs. Ova/Cmu/ α TNF- α	37.51	***	0.0001
Ova/Cmu/Dex vs. Ova/Cmu/ α TNF- α	27.85	***	0.0001

B

One way ANOVA (Neutrophils)	Mean Diff.	Summary	P Value
Sal vs. Ova	2.648	*	0.05
Sal vs. Ova/Dex	-1.942	ns	0.4631
Sal vs. Sal/Cmu	-2.153	ns	0.4891
Sal vs. Ova/Cmu	-19.67	****	< 0.0001
Sal vs. Ova/Cmu/Dex	-17.98	****	< 0.0001
Sal vs. Ova/Cmu/ α TNF- α	-4.28	ns	0.1512
Ova vs. Ova/Dex	0.7065	ns	0.7205
Ova vs. Sal/Cmu	0.495	ns	0.8469
Ova vs. Ova/Cmu	-17.03	***	0.0001
Ova vs. Ova/Cmu/Dex	-15.33	****	< 0.0001
Ova vs. Ova/Cmu/ α TNF- α	-1.631	ns	0.492
Ova/Dex vs. Sal/Cmu	-0.2115	ns	0.9361
Ova/Dex vs. Ova/Cmu	-17.73	****	< 0.0001
Ova/Dex vs. Ova/Cmu/Dex	-16.03	****	< 0.0001
Ova/Dex vs. Ova/Cmu/ α TNF- α	-2.338	ns	0.3423
Sal/Cmu vs. Ova/Cmu	-17.52	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-15.82	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/ α TNF- α	-2.126	ns	0.4716
Ova/Cmu vs. Ova/Cmu/Dex	1.698	ns	0.5239
Ova/Cmu vs. Ova/Cmu/ α TNF- α	15.39	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/ α TNF- α	13.7	***	0.0001

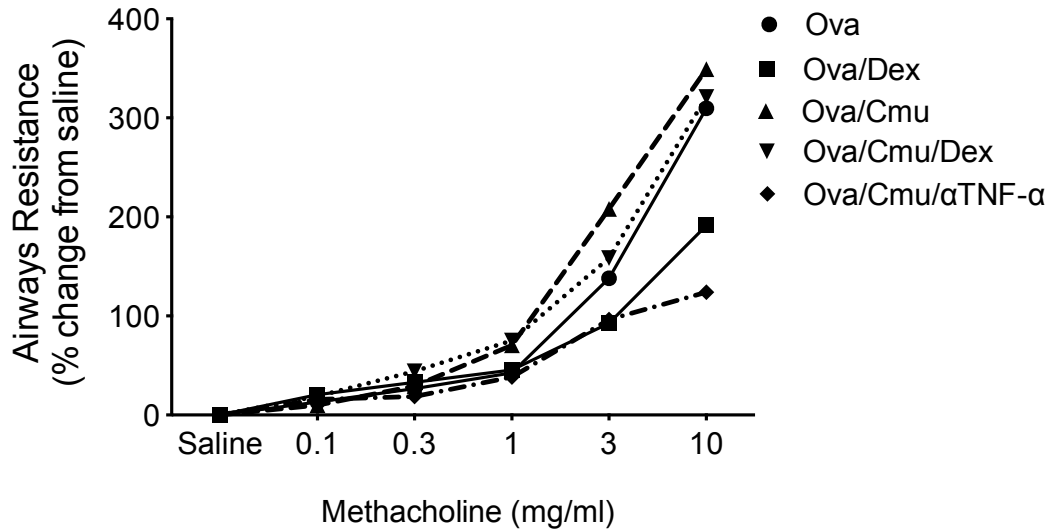
C

One way ANOVA (Eosinophils)	Mean Diff.	Summary	P Value
Sal vs. Ova	-7.828	****	< 0.0001
Sal vs. Ova/Dex	-0.426	ns	0.6408
Sal vs. Sal/Cmu	0.06313	ns	0.9531
Sal vs. Ova/Cmu	-4.763	****	< 0.0001
Sal vs. Ova/Cmu/Dex	-2.841	**	0.0076
Sal vs. Ova/Cmu/ α TNF- α	-1.918	ns	0.0651
Ova vs. Ova/Dex	7.402	***	0.0001
Ova vs. Sal/Cmu	7.891	****	< 0.0001
Ova vs. Ova/Cmu	3.065	**	0.005
Ova vs. Ova/Cmu/Dex	4.987	****	< 0.0001
Ova vs. Ova/Cmu/ α TNF- α	5.911	****	< 0.0001
Ova/Dex vs. Sal/Cmu	0.4891	ns	0.5923
Ova/Dex vs. Ova/Cmu	-4.337	****	< 0.0001
Ova/Dex vs. Ova/Cmu/Dex	-2.415	**	0.0064
Ova/Dex vs. Ova/Cmu/ α TNF- α	-1.492	ns	0.0836
Sal/Cmu vs. Ova/Cmu	-4.826	****	< 0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-2.904	**	0.0064
Sal/Cmu vs. Ova/Cmu/ α TNF- α	-1.981	ns	0.0571
Ova/Cmu vs. Ova/Cmu/Dex	1.922	ns	0.0505
Ova/Cmu vs. Ova/Cmu/ α TNF- α	2.846	**	0.0048
Ova/Cmu/Dex vs. Ova/Cmu/ α TNF- α	0.9234	ns	0.3386

D

One way ANOVA (Macrophages)	Mean Diff.	Summary	P Value
Sal vs. Ova	-11.99	***	0.0003
Sal vs. Ova/Dex	0.1099	ns	0.968
Sal vs. Sal/Cmu	-7.609	*	0.0162
Sal vs. Ova/Cmu	-19.54	****	< 0.0001
Sal vs. Ova/Cmu/Dex	-16.52	****	< 0.0001
Sal vs. Ova/Cmu/ α TNF- α	-4.201	ns	0.1584
Ova vs. Ova/Dex	12.1	***	0.0005
Ova vs. Sal/Cmu	4.378	ns	0.0805
Ova vs. Ova/Cmu	-7.556	**	0.002
Ova vs. Ova/Cmu/Dex	-4.532	ns	0.0707
Ova vs. Ova/Cmu/ α TNF- α	7.786	**	0.0015
Ova/Dex vs. Sal/Cmu	-7.719	**	0.0039
Ova/Dex vs. Ova/Cmu	-19.65	****	< 0.0001
Ova/Dex vs. Ova/Cmu/Dex	-16.63	****	< 0.0001
Ova/Dex vs. Ova/Cmu/ α TNF- α	-4.311	ns	0.0782
Sal/Cmu vs. Ova/Cmu	-11.93	***	0.0001
Sal/Cmu vs. Ova/Cmu/Dex	-8.91	**	0.0033
Sal/Cmu vs. Ova/Cmu/ α TNF- α	3.408	ns	0.2213
Ova/Cmu vs. Ova/Cmu/Dex	3.024	ns	0.2769
Ova/Cmu vs. Ova/Cmu/ α TNF- α	15.34	***	0.0003
Ova/Cmu/Dex vs. Ova/Cmu/ α TNF- α	12.32	***	0.0001

E



F

One Way ANOVA (10mg/ml Mch)	Mean Diff.	Summary	P Value
Sal vs. Ova	-134.8	**	0.009
Sal vs. Ova/Dex	1.699	ns	0.9725
Sal vs. Sal/Cmu	2.656	ns	0.9627
Sal vs. Ova/Cmu	-156.1	**	0.0045
Sal vs. Ova/Cmu/Dex	-128.1	*	0.0292
Sal vs. Ova/Cmu/αTNF-α	68.93	ns	0.2061
Ova vs. Ova/Dex	136.5	**	0.0015
Ova vs. Sal/Cmu	137.5	**	0.0078
Ova vs. Ova/Cmu	-21.32	ns	0.624
Ova vs. Ova/Cmu/Dex	6.75	ns	0.8909
Ova vs. Ova/Cmu/αTNF-α	203.7	****	< 0.0001
Ova/Dex vs. Sal/Cmu	0.9573	ns	0.9845
Ova/Dex vs. Ova/Cmu	-157.8	***	0.0008
Ova/Dex vs. Ova/Cmu/Dex	-129.8	*	0.0117
Ova/Dex vs. Ova/Cmu/αTNF-α	67.24	ns	0.1481
Sal/Cmu vs. Ova/Cmu	-158.8	**	0.0039
Sal/Cmu vs. Ova/Cmu/Dex	-130.7	*	0.0263
Sal/Cmu vs. Ova/Cmu/αTNF-α	66.28	ns	0.2237
Ova/Cmu vs. Ova/Cmu/Dex	28.07	ns	0.5893
Ova/Cmu vs. Ova/Cmu/αTNF-α	225.1	****	< 0.0001
Ova/Cmu/Dex vs. Ova/Cmu/αTNF-α	197	***	0.0007

Supplementary Figure 6: Anti-TNF-α therapy suppresses *Chlamydia*-induced SSIAAD.

A

One way ANOVA (Total cells)	Mean Diff.	Summary	P Value
Sal vs. Ova	-64.9	***	0.0001
Sal vs. Clari/Ova	-19	ns	0.148
Sal vs. Clari/Ova/Dex	-14.54	ns	0.2643
Sal vs. Hi/Sal	28.85	*	0.0198
Sal vs. Hi/Ova	-42	**	0.0028
Sal vs. Hi/Clari/Ova	-50.64	***	0.0003
Sal vs. Hi/Clari/Ova/Dex	-12.12	ns	0.3869
Ova vs. Clari/Ova	45.9	***	0.0008
Ova vs. Clari/Ova/Dex	50.36	***	0.0003
Ova vs. Hi/Sal	93.75	****	< 0.0001
Ova vs. Hi/Ova	22.9	ns	0.0692
Ova vs. Hi/Clari/Ova	14.26	ns	0.222
Ova vs. Hi/Clari/Ova/Dex	52.78	***	0.0004
Clari/Ova vs. Clari/Ova/Dex	4.458	ns	0.7294
Clari/Ova vs. Hi/Sal	47.85	***	0.0003
Clari/Ova vs. Hi/Ova	-23	ns	0.0826
Clari/Ova vs. Hi/Clari/Ova	-31.64	*	0.0144
Clari/Ova vs. Hi/Clari/Ova/Dex	6.881	ns	0.6216
Clari/Ova/Dex vs. Hi/Sal	43.39	***	0.0009
Clari/Ova/Dex vs. Hi/Ova	-27.46	*	0.0405
Clari/Ova/Dex vs. Hi/Clari/Ova	-36.1	**	0.006
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	2.423	ns	0.8617
Hi/Sal vs. Hi/Ova	-70.85	***	0.0003
Hi/Sal vs. Hi/Clari/Ova	-79.48	****	< 0.0001
Hi/Sal vs. Hi/Clari/Ova/Dex	-40.96	**	0.0034
Hi/Ova vs. Hi/Clari/Ova	-8.638	ns	0.4815
Hi/Ova vs. Hi/Clari/Ova/Dex	29.88	*	0.0391
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	38.52	**	0.0069

B

One way ANOVA (Neutrophils)	Mean Diff.	Summary	P Value
Sal vs. Ova	-4.306	***	0.0003
Sal vs. Clari/Ova	-1.37	ns	0.1886
Sal vs. Clari/Ova/Dex	-1.492	ns	0.1534
Sal vs. Hi/Sal	-1.05	ns	0.2849
Sal vs. Hi/Ova	-8.28	****	< 0.0001
Sal vs. Hi/Clari/Ova	-3.478	**	0.0021
Sal vs. Hi/Clari/Ova/Dex	-0.9572	ns	0.3539
Ova vs. Clari/Ova	2.937	**	0.0077
Ova vs. Clari/Ova/Dex	2.814	*	0.0102
Ova vs. Hi/Sal	3.256	**	0.0023
Ova vs. Hi/Ova	-3.974	***	0.0006
Ova vs. Hi/Clari/Ova	0.8277	ns	0.4217
Ova vs. Hi/Clari/Ova/Dex	3.349	**	0.0029
Clari/Ova vs. Clari/Ova/Dex	-0.1224	ns	0.9048
Clari/Ova vs. Hi/Sal	0.3191	ns	0.7427
Clari/Ova vs. Hi/Ova	-6.91	****	< 0.0001
Clari/Ova vs. Hi/Clari/Ova	-2.109	*	0.0478
Clari/Ova vs. Hi/Clari/Ova/Dex	0.4123	ns	0.6875
Clari/Ova/Dex vs. Hi/Sal	0.4415	ns	0.65
Clari/Ova/Dex vs. Hi/Ova	-6.788	****	< 0.0001
Clari/Ova/Dex vs. Hi/Clari/Ova	-1.987	ns	0.0612
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	0.5347	ns	0.6024
Hi/Sal vs. Hi/Ova	-7.23	***	0.0001
Hi/Sal vs. Hi/Clari/Ova	-2.428	*	0.0182
Hi/Sal vs. Hi/Clari/Ova/Dex	0.09319	ns	0.9235
Hi/Ova vs. Hi/Clari/Ova	4.802	**	0.0049
Hi/Ova vs. Hi/Clari/Ova/Dex	7.323	***	0.0008
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	2.521	*	0.0199

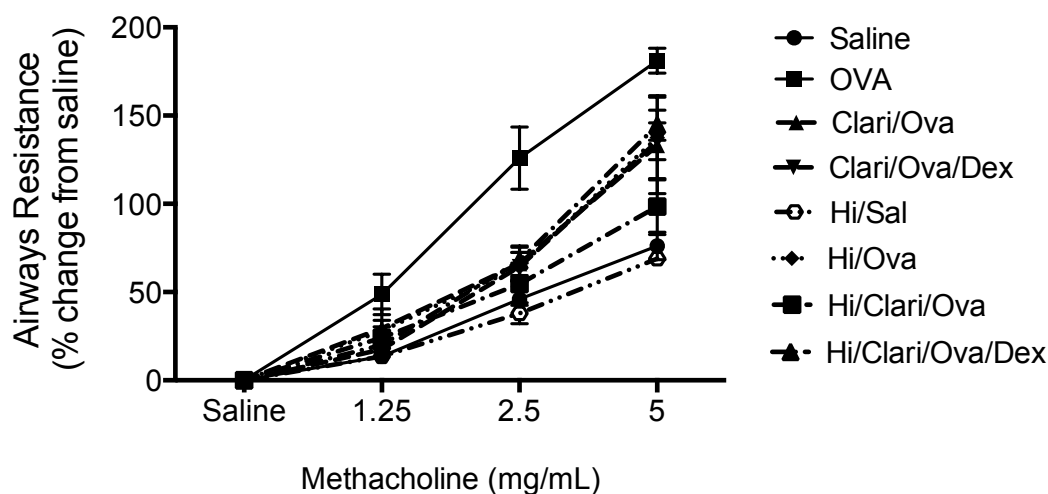
C

One way ANOVA (Eosinophils)	Mean Diff.	Summary	P Value
Sal vs. Ova	-6.207	****	< 0.0001
Sal vs. Clari/Ova	-1.922	**	0.0024
Sal vs. Clari/Ova/Dex	-2.418	***	0.0007
Sal vs. Hi/Sal	-0.1307	ns	0.8085
Sal vs. Hi/Ova	-3.327	****	< 0.0001
Sal vs. Hi/Clar/Ova	-5.3	****	< 0.0001
Sal vs. Hi/Clar/Ova/Dex	-0.7511	ns	0.2392
Ova vs. Clari/Ova	4.284	***	0.0004
Ova vs. Clari/Ova/Dex	3.788	***	0.0003
Ova vs. Hi/Sal	6.076	****	< 0.0001
Ova vs. Hi/Ova	2.879	**	0.005
Ova vs. Hi/Clar/Ova	0.9066	ns	0.158
Ova vs. Hi/Clar/Ova/Dex	5.455	****	< 0.0001
Clari/Ova vs. Clari/Ova/Dex	-0.4961	ns	0.4677
Clari/Ova vs. Hi/Sal	1.792	**	0.0056
Clari/Ova vs. Hi/Ova	-1.405	*	0.0331
Clari/Ova vs. Hi/Clar/Ova	-3.378	****	< 0.0001
Clari/Ova vs. Hi/Clar/Ova/Dex	1.171	ns	0.094
Clari/Ova/Dex vs. Hi/Sal	2.288	**	0.0015
Clari/Ova/Dex vs. Hi/Ova	-0.9088	ns	0.1889
Clari/Ova/Dex vs. Hi/Clar/Ova	-2.882	***	0.0002
Clari/Ova/Dex vs. Hi/Clar/Ova/Dex	1.667	*	0.0289
Hi/Sal vs. Hi/Ova	-3.197	***	0.0001
Hi/Sal vs. Hi/Clar/Ova	-5.169	****	< 0.0001
Hi/Sal vs. Hi/Clar/Ova/Dex	-0.6204	ns	0.3441
Hi/Ova vs. Hi/Clar/Ova	-1.973	**	0.004
Hi/Ova vs. Hi/Clar/Ova/Dex	2.576	***	0.0008
Hi/Clar/Ova vs. Hi/Clar/Ova/Dex	4.549	****	< 0.0001

D

One way ANOVA (Macrophages)	Mean Diff.	Summary	P Value
Sal vs. Ova	-28.44	*	0.0219
Sal vs. Clari/Ova	-14.75	ns	0.2194
Sal vs. Clari/Ova/Dex	-4.77	ns	0.7048
Sal vs. Hi/Sal	-15.21	ns	0.2058
Sal vs. Hi/Ova	-29.28	*	0.0257
Sal vs. Hi/Clari/Ova	-32.21	*	0.0103
Sal vs. Hi/Clari/Ova/Dex	-16.17	ns	0.1793
Ova vs. Clari/Ova	13.69	ns	0.2535
Ova vs. Clari/Ova/Dex	23.67	ns	0.0674
Ova vs. Hi/Sal	13.23	ns	0.2693
Ova vs. Hi/Ova	-0.8414	ns	0.9467
Ova vs. Hi/Clari/Ova	-3.769	ns	0.7508
Ova vs. Hi/Clari/Ova/Dex	12.27	ns	0.3049
Clari/Ova vs. Clari/Ova/Dex	9.98	ns	0.4299
Clari/Ova vs. Hi/Sal	-0.4569	ns	0.9693
Clari/Ova vs. Hi/Ova	-14.53	ns	0.2531
Clari/Ova vs. Hi/Clari/Ova	-17.46	ns	0.148
Clari/Ova vs. Hi/Clari/Ova/Dex	-1.418	ns	0.9048
Clari/Ova/Dex vs. Hi/Sal	-10.44	ns	0.4093
Clari/Ova/Dex vs. Hi/Ova	-24.51	ns	0.0721
Clari/Ova/Dex vs. Hi/Clari/Ova	-27.44	*	0.0356
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	-11.4	ns	0.3681
Hi/Sal vs. Hi/Ova	-14.08	ns	0.268
Hi/Sal vs. Hi/Clari/Ova	-17	ns	0.1585
Hi/Sal vs. Hi/Clari/Ova/Dex	-0.9607	ns	0.9354
Hi/Ova vs. Hi/Clari/Ova	-2.928	ns	0.816
Hi/Ova vs. Hi/Clari/Ova/Dex	13.11	ns	0.3014
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	16.04	ns	0.1826

E



F

One Way ANOVA (5mg/ml Mch)	Mean Diff.	Summary	P Value
Saline vs. Ova	-105	***	0.0001
Saline vs. Clari/Ova	-16.92	ns	0.188
Saline vs. Clari/Ova/Dex	-50.6	***	0.0005
Saline vs. HiSal	7.261	ns	0.5082
Saline vs. Hi/Ova	-72.17	****	< 0.0001
Saline vs. Hi/Clari/Ova	-9.354	ns	0.4227
Saline vs. Hi/Clari/Ova/Dex	-33.34	**	0.0051
Ova vs. Clari/Ova	88.08	****	< 0.0001
Ova vs. Clari/Ova/Dex	54.4	***	0.0003
Ova vs. HiSal	112.3	****	< 0.0001
Ova vs. Hi/Ova	32.83	*	0.019
Ova vs. Hi/Clari/Ova	95.65	****	< 0.0001
Ova vs. Hi/Clari/Ova/Dex	71.66	****	< 0.0001
Clari/Ova vs. Clari/Ova/Dex	-33.68	*	0.0238
Clari/Ova vs. HiSal	24.18	ns	0.0646
Clari/Ova vs. Hi/Ova	-55.25	***	0.0006
Clari/Ova vs. Hi/Clari/Ova	7.561	ns	0.5679
Clari/Ova vs. Hi/Clari/Ova/Dex	-16.42	ns	0.2008
Clari/Ova/Dex vs. HiSal	57.86	***	0.0001
Clari/Ova/Dex vs. Hi/Ova	-21.57	ns	0.1353
Clari/Ova/Dex vs. Hi/Clari/Ova	41.24	**	0.0042
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	17.26	ns	0.1795
HiSal vs. Hi/Ova	-79.43	***	0.0004
HiSal vs. Hi/Clari/Ova	-16.62	ns	0.1603
HiSal vs. Hi/Clari/Ova/Dex	-40.6	***	0.001
Hi/Ova vs. Hi/Clari/Ova	62.81	***	0.0003
Hi/Ova vs. Hi/Clari/Ova/Dex	38.83	*	0.048
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	-23.98	*	0.0472

Supplementary Figure 7: Clarithromycin suppresses *Hi*-induced SSIAD

A

One Way ANOVA (IL-5)	Mean Diff.	Summary	P Value
Sal vs. Ova	-4.370	***	0.0003
Sal vs. Clari/Ova	-3.605	***	0.0002
Sal vs. Clari/Ova/Dex	-4.693	****	< 0.0001
Sal vs. Hi/Sal	1.156	ns	0.2384
Sal vs. Hi/Ova	0.02027	ns	0.9833
Sal vs. Hi/Clari/Ova	-2.631	*	0.0103
Sal vs. Hi/Clari/Ova/Dex	-0.5396	ns	0.5387
Ova vs. Clari/Ova	0.765	ns	0.3849
Ova vs. Clari/Ova/Dex	-0.3229	ns	0.7392
Ova vs. Hi/Sal	5.526	****	< 0.0001
Ova vs. Hi/Ova	4.39	***	0.0001
Ova vs. Hi/Clari/Ova	1.739	ns	0.0804
Ova vs. Hi/Clari/Ova/Dex	3.83	***	0.0001
Clari/Ova vs. Clari/Ova/Dex	-1.088	ns	0.2487
Clari/Ova vs. Hi/Sal	4.761	****	< 0.0001
Clari/Ova vs. Hi/Ova	3.625	***	0.0005
Clari/Ova vs. Hi/Clari/Ova	0.9741	ns	0.3006
Clari/Ova vs. Hi/Clari/Ova/Dex	3.065	***	0.0009
Clari/Ova/Dex vs. Hi/Sal	5.849	****	< 0.0001
Clari/Ova/Dex vs. Hi/Ova	4.713	****	< 0.0001
Clari/Ova/Dex vs. Hi/Clari/Ova	2.062	ns	0.0507
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	4.153	****	< 0.0001
Hi/Sal vs. Hi/Ova	1.136	*	0.0170
Hi/Sal vs. Hi/Clari/Ova	-3.787	***	0.0008
Hi/Sal vs. Hi/Clari/Ova/Dex	-1.696	ns	0.0767
Hi/Ova vs. Hi/Clari/Ova	-2.651	*	0.0138
Hi/Ova vs. Hi/Clari/Ova/Dex	-0.5598	ns	0.5495
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	2.091	*	0.0312

B

One Way ANOVA (IL-13)	Mean Diff.	Summary	P Value
Sal vs. Ova	-2.112	***	0.0002
Sal vs. Clari/Ova	-0.6621	ns	0.1674
Sal vs. Clari/Ova/Dex	-1.104	*	0.0327
Sal vs. Hi/Sal	0.2404	ns	0.6254
Sal vs. Hi/Ova	-0.8983	ns	0.0773
Sal vs. Hi/Clari/Ova	-2.749	****	< 0.0001
Sal vs. Hi/Clari/Ova/Dex	-1.353	*	0.0158
Ova vs. Clari/Ova	1.45	**	0.0025
Ova vs. Clari/Ova/Dex	1.008	*	0.0349
Ova vs. Hi/Sal	2.352	****	< 0.0001
Ova vs. Hi/Ova	1.214	*	0.0128
Ova vs. Hi/Clari/Ova	-0.6367	ns	0.1702
Ova vs. Hi/Clari/Ova/Dex	0.7586	ns	0.132
Clari/Ova vs. Clari/Ova/Dex	-0.4421	ns	0.3109
Clari/Ova vs. Hi/Sal	0.9024	*	0.0454
Clari/Ova vs. Hi/Ova	-0.2363	ns	0.585
Clari/Ova vs. Hi/Clari/Ova	-2.087	****	< 0.0001
Clari/Ova vs. Hi/Clari/Ova/Dex	-0.6914	ns	0.1502
Clari/Ova/Dex vs. Hi/Sal	1.345	**	0.0065
Clari/Ova/Dex vs. Hi/Ova	0.2058	ns	0.6515
Clari/Ova/Dex vs. Hi/Clari/Ova	-1.645	**	0.0013
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	-0.2493	ns	0.6126
Hi/Sal vs. Hi/Ova	-1.139	*	0.0186
Hi/Sal vs. Hi/Clari/Ova	-2.989	****	< 0.0001
Hi/Sal vs. Hi/Clari/Ova/Dex	-1.594	**	0.0033
Hi/Ova vs. Hi/Clari/Ova	-1.85	**	0.004
Hi/Ova vs. Hi/Clari/Ova/Dex	-0.4551	ns	0.3585
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	1.395	**	0.0086

C

One Way ANOVA (IL-17)	Mean Diff.	Summary	P Value
Sal vs. Ova	-0.03272	ns	0.9556
Sal vs. Clari/Ova	0.04776	ns	0.9318
Sal vs. Clari/Ova/Dex	0.1406	ns	0.8112
Sal vs. Hi/Sal	-1.096	ns	0.0702
Sal vs. Hi/Ova	-4.45	****	< 0.0001
Sal vs. Hi/Clari/Ova	-1.074	ns	0.053
Sal vs. Hi/Clari/Ova/Dex	-1.669	**	0.0039
Ova vs. Clari/Ova	0.08049	ns	0.8853
Ova vs. Clari/Ova/Dex	0.1733	ns	0.7684
Ova vs. Hi/Sal	-1.064	ns	0.0785
Ova vs. Hi/Ova	-4.417	***	0.0001
Ova vs. Hi/Clari/Ova	-1.041	ns	0.0602
Ova vs. Hi/Clari/Ova/Dex	-1.636	**	0.0046
Clari/Ova vs. Clari/Ova/Dex	0.09284	ns	0.8679
Clari/Ova vs. Hi/Sal	-1.144	*	0.0477
Clari/Ova vs. Hi/Ova	-4.498	****	< 0.0001
Clari/Ova vs. Hi/Clari/Ova	-1.122	*	0.0325
Clari/Ova vs. Hi/Clari/Ova/Dex	-1.717	**	0.0018
Clari/Ova/Dex vs. Hi/Sal	-1.237	*	0.0426
Clari/Ova/Dex vs. Hi/Ova	-4.591	****	< 0.0001
Clari/Ova/Dex vs. Hi/Clari/Ova	-1.215	*	0.0301
Clari/Ova/Dex vs. Hi/Clari/Ova/Dex	-1.809	**	0.002
Hi/Sal vs. Hi/Ova	-3.354	****	< 0.0001
Hi/Sal vs. Hi/Clari/Ova	0.0225	ns	0.9666
Hi/Sal vs. Hi/Clari/Ova/Dex	-0.5723	ns	0.2913
Hi/Ova vs. Hi/Clari/Ova	3.376	***	0.0003
Hi/Ova vs. Hi/Clari/Ova/Dex	2.781	***	0.0004
Hi/Clari/Ova vs. Hi/Clari/Ova/Dex	-0.5948	ns	0.2217

Supplementary Figure 8: Clarithromycin works to suppress IL-17 responses in *Hi*-induced SSIAAD