

S5 Table. The raw data of adenylate cyclase activities from 12 healthy volunteers and 11 VT patients at HUT test by adrenaline (AD) and isoproterenol (IP)

Adrenaline 1mM	1000000	0.487138	0.750993	0.586864	0.701958	0.672472	0.639865
Adrenaline 100uM	100000	0.684176	0.827716	0.60255	0.752794	0.748171	0.650868
Adrenaline 10uM	10000	0.676936	0.96738	0.619195	0.462099	0.617245	0.380325
Adrenaline 1uM	1000	0.2508	0.46029	0.358847	0.25945	0.45298	0.17769
Adrenaline 100nM	100	0.014842	0.035339	0.07193	0.021223	0.023457	0.033363
Adrenaline 10nM	10	0.002706	0.012973	0.020693	0.019091	-0.007112	0.009668
Adrenaline 1nM	1	0.000192	0.021921	0.022942	-0.02117	-0.01712	0.001353

70°	S010-2	S011-2	S020-2	S018-2	S022-2	S025-2	S027-2	S028-2	S030-2	S033-2	S038-2	
Isoproterenol 5mM	5000000	0.567398	0.6181576	0.61814	0.620561	0.666079						0.643048
Isoproterenol 500uM	500000	0.596599	0.777989	0.531318	0.689010	0.758639						0.670713
Isoproterenol 50uM	50000	0.679497	0.727236	0.59271	0.527635	0.698648	0.384592	0.475822	0.492902	0.37946	0.536518	0.249628
Isoproterenol 5uM	5000	0.614995	0.645538	0.541985	0.477697	0.607188	0.324837	0.294697	0.26714	0.344974	0.472921	0.196113
Isoproterenol 500nM	500	0.316289	0.522743	0.396853	0.399744	0.557719	0.235201	0.036007	0.132435	0.258464	0.272694	0.16503
Isoproterenol 50nM	50	0.002822	0.05559	0.103269	0.148853	0.076943						0.077487
Isoproterenol 5nM	5	-0.01483	0.015978	-0.0062	0.02235	-0.04951						-0.00644

Adrenaline 1mM	1000000	0.519159	0.687653	0.585581	0.618387	0.68096	0.618348
Adrenaline 100uM	100000	0.645164	0.773656	0.554981	0.616481	0.742601	0.614422
Adrenaline 10uM	10000	0.651767	0.62745	0.508129	0.44446	0.585747	0.329431
Adrenaline 1uM	1000	0.260674	0.387023	0.271924	0.267841	0.405729	0.139165
Adrenaline 10nM	100	0.00345	0.077247	0.050537	0.05242	0.080616	0.037833
Adrenaline 10nM	10	-0.00232	0.02865	0.021912	-0.0108	-0.01898	0.003695
Adrenalin 1eM	1	0.00026	0.026981	0.0011	0.05273	0.02387	0.00072

10 min	S01-3	S011-3	S020-3	S018-3	S022-3	S025-3	S027-3	S028-3	S030-3	S033-3	S038-3	
Isoproterenol 5mM	5000000	0.504066	0.640388	0.622059	0.642863	0.61086						0.604247
Isoproterenol 50uM	500000	0.51933	0.758241	0.515928	0.79548	0.574282						0.632652
Isoproterenol 50uM	50000	0.743942	0.851982	0.74846	0.891033	0.720393	0.442187	0.48591	0.538029	0.370512	0.580232	0.277888
Isoproterenol 5uM	5000	0.719171	0.861767	0.714926	0.645953	0.647722	0.355511	0.347945	0.3955	0.242978	0.51458	0.218619
Isoproterenol 500nM	500	0.394464	0.624263	0.539951	0.510392	0.4531	0.246001	0.064996	0.276522	0.081793	0.337905	0.161485
Isoproterenol 50nM	50	0.030549	0.121028	0.027205	0.028309	0.022713						0.056388
Isoproterenol 5nM	5	-0.00318	0.076558	-0.03857	-0.03343	-0.01341						-0.00241

Adrenaline 1mM	1000000	0.50789	0.677842	0.594521	0.575614	0.616314	0.594436
Adrenaline 100µM	100000	0.692489	0.85264	0.513948	0.760478	0.670876	0.666506
Adrenaline 10µM	10000	0.678469	0.75921	0.619409	0.648548	0.645979	0.378521
Adrenaline 1µM	1000	0.378033	0.559693	0.38548	0.341349	0.365023	0.138492
Adrenaline 10nM	100	0.003833	0.123474	0.04661	0.08831	0.08865	0.001407
Adrenaline 1nM	10	-0.01047	0.099127	-0.00081	-0.03207	-0.02395	0.006365

	S01-4	S011-4	S020-4	S018-4	S022-4	S025-4	S027-4	S028-4	S030-4	S033-4	S038-4	
Isoproterenol 5nM	5000000	0.496711	0.615417	0.60925	0.641134	0.650141						0.602531
Isoproterenol 50nM	50000	0.483746	0.714936	0.476465	0.725084	0.570216						0.594089
Isoproterenol 50μM	5000	0.726675	0.851575	0.467004	0.564148	0.583106	0.555561	0.46789	0.943602	0.425595	0.798589	0.383465
Isoproterenol 5μM	500	0.663717	0.787797	0.635865	0.526052	0.528271	0.42243	0.305321	0.823986	0.237546	0.740131	0.3006
Isoproterenol 500nM	500	0.348455	0.570592	0.104036	0.363326	0.341548	0.298335	0.076658	0.605585	0.123164	0.395797	0.232379
												0.314534 0.17483

Isoproterenol 5nM 5 -0.00582 -0.0156 -0.05977 -0.05355 -0.0474 -0.03643

Healthy n=12	1	2	3	4	5	6	7	8	9	10	11	12	Average	SD	T- P
Base	C36-1	C37-1	C38-1	C040-1	C41-1	C43-1	C46-1	C47-1	C048-1	C050-1	C051-1	C053-1			
Isoproterenol 5mM	5000000	0.757502	0.66463	0.695884	0.692927	0.678168	0.616207	0.66928	0.626701	0.586175	0	0	0.633191		
Isoproterenol 500uM	500000	0.685033	0.545955	0.627609	0.598349	0.549981	0.486665	0.621838	0.556789	0.53584	0	0	0.571728		
Isoproterenol 50uM	5000	0.765834	0.418179	0.351528	0.339568	0.216537	0.378901	0.363962	0.275046	0.440801	0.232386	0.45709	0.590449	0.404779	0.154299
Isoproterenol 5uM	5000	0.640779	0.356776	0.255737	0.26817	0.113567	0.353159	0.274708	0.20157	0.409015	0.125952	0.436376	0.527037	0.330279	0.15716
Isoproterenol 500nM	500	0.358901	0.149965	0.193664	0.172408	0.10231	0.261852	0.196201	0.160736	0.247488	0.140866	0.295521	0.395715	0.222969	0.090619
Isoproterenol 50nM	50	-0.00447	-0.03872	0.05684	0.102597	0.030603	0.050547	0.010148	0.041667	0.04824	0	0	0.027011		
Isoproterenol 5nM	5	-0.02087	-0.02625	-0.04086	-0.00476	0.021786	-0.00598	-0.00088	0.004312	-0.02629	0	0	-0.01428		

Adrenaline 1nM	1000000	0.21069	0.636478	0.680594	0.698643	0.653925	0.615496	0.642209	0.57025	0.568023	0	0	0.60463	
Adrenaline 100uM	10000	0.761974	0.473305	0.506677	0.504345	0.458885	0.484882	0.585582	0.488452	0.470625	0.464659	0.61892	0.675834	0.541178 0.097983 0
Adrenaline 10uM	10000	0.684041	0.318276	0.261932	0.259273	0.11025	0.379446	0.283347	0.204512	0.317912	0.163163	0.161767	0.504925	0.326923 0.149877 0
Adrenaline 1uM	1000	0.620620	0.127793	0.116356	0.127035	0.07354	0.359127	0.13934	0.097657	0.17045	0.0945	0.20908	0.233382	0.168946 0.085663 0
Adrenaline 100nM	100	0.004949	0.000302	-0.00944	0.049311	0.04432	0.026521	0.01418	0.017002	0.027011	0	0	0.043461	
Adrenaline 10nM	10	-0.01609	-0.00296	0.035078	0.047313	0.020914	0.051841	0.003303	0.005244	0.027658	0	0	0.016927	
Adrenaline 1nM	1	-0.03253	-0.01132	0.01113	0.01016	0.00847	-0.01472	0.005662	-0.01425	-0.01318	0	0	-0.00814	

Adrenaline 1mM	1000000	0.495798	0.569605	0.704251	0.678227	0.631304	0.532862	0.604557	0.585728	0.53985	0	0	0.5782	
Adrenaline 100uM	100000	0.705793	0.417502	0.453322	0.526494	0.412419	0.357069	0.460932	0.643443	0.413427	0.418743	0.579005	0.68229	0.50587 0.118856 0
Adrenaline 10uM	10000	0.165019	0.271872	0.188176	0.265434	0.109445	0.232809	0.176941	0.309194	0.295352	0.143949	0.37388	0.465157	0.287633 0.143551 0
Adrenaline 1uM	1000	0.289071	0.109531	0.118544	0.143075	0.072936	0.041349	0.0766	0.153219	0.170743	0.071493	0.107439	0.157874	0.152062 0.131063 0.062326 0
Adrenaline 100nM	100	0.023548	0.11084	0.022636	0.031226	0.028094	0.027446	-0.039	0.025233	0.031774	0	0	0	0.000898
Adrenaline 10nM	10	0.147444	0.01621	0.014448	0.012697	0.00609	-0.12534	-0.0858	0.003152	0.017522	0	0	0	-0.00432
Adrenaline 1mM	1	0.00123	0.02632	0.02395	0.02617	0.00265	0.129	0.02015	0.011234	0.004243	0	0	0	0.02396

10 min	C36-3	C37-3	C38-3	C040-3	C41-3	C43-3	C46-3	C47-3	C048-3	C050-3	C051-3	C053-3
Isoproterenol 5mM	5000000	0.469615	0.605519	0.638618	0.658659	0.651187	0.58504	0.602827	0.586696	0.549822	0	0
Isoproterenol 500uM	500000	0.050708	0.054536	0.060103	0.161908	0.153188	0.248774	0.455448	0.56219	0.452828	0	0.499411
Isoproterenol 50uM	50000	0.69008	0.427835	0.363097	0.506611	0.287074	0.30101	0.238809	0.4337	0.361595	0.22787	0.399463
Isoproterenol 5uM	5000	5.073857	0.357813	0.289166	0.421053	0.13344	0.240197	0.138893	0.274154	0.296574	0.18943	0.356666
Isoproterenol 500nM	500	0.13733	0.146472	0.233869	0.241755	0.03827	0.173743	0.08176	0.167332	0.214933	0.147499	0.268123
Isoproterenol 50nM	50	-0.02209	0.020922	0.069656	0.036547	0.031046	0.013058	-0.00972	0.021181	0.025565	0	0
Isoproterenol 5nM	5	-0.01629	0.01455	0.015022	0.00883	0.016161	-0.02416	-0.01651	-0.0351	0.001119	0	-0.00729

Adrenaline 1mM	1000000	0.438058	0.588412	0.654646	0.651939	0.621838	0.545607	0.56437	0.541464	0.531454	0	0	0.557478			
Adrenaline 100μM	100000	0.577236	0.440056	0.519117	0.607661	0.446216	0.341682	0.390337	0.602928	0.363253	0.48952	0.535941	0.636866	0.496051	0.100559	0
Adrenaline 10μM	10000	0.502602	0.337168	0.263438	0.381105	0.163200	0.205381	0.147584	0.273239	0.299688	0.020348	0.31466	0.446696	0.296339	0.112927	
Adrenaline 1μM	1000	0.240591	0.118109	0.134269	0.188301	0.076393	0.111531	0.061781	0.114963	0.135967	0.109947	0.108816	0.183192	0.131988	0.0500047	
Adrenaline 100nM	100	-0.00672	0.232303	0.098942	0.030431	0.040758	-0.00826	0.005414	0.006609	0.021948	0	0	0.01276			
Adrenaline 10nM	10	-0.003693	0.10954	0.03866	0.021449	0.004138	-0.01987	-0.00834	-0.00039	0.020845	0	0	0.006651			

		C36-4	C37-4	C38-4	C040-4	C41-4	C43-4	C46-4	C47-4	C048-4	C050-4	C051-4	C053-4	Average	
20 min															
Isoproterenol 5mM	5000000	0.48141	0.59351	0.65557	0.642971	0.629867	0.568406	0.59554	0.552801	0.563449	0	0	0	0.578237	
Isoproterenol 500uM	500000	0.487475	0.517069	0.651278	0.57275	0.533343	0.423929	0.444228	0.527197	0.443848	0	0	0	0.496913	
Isoproterenol 50uM	50000	0.629321	0.612423	0.449734	0.403493	0.298672	0.319218	0.26333	0.4659	0.421751	0.279892	0.469228	0.464759	0.423144	0.119647
Isoproterenol 5uM	5000	0.505668	0.548669	0.333728	0.322789	0.104683	0.281765	0.157021	0.308233	0.314989	0.2479	0.329549	0.375606	0.33122	0.127212
Isoproterenol 500nM	500	0.259487	0.222269	0.310466	0.177412	0.069729	0.192632	0.066295	0.220416	0.214187	0.17775	0.273197	0.278378	0.205185	0.076242

Isoproterenol 5nM	5	-0.02733	-0.04237	-0.06312	-0.01285	0.005228	-0.03773	-0.05439	-0.09231	-0.05387	0	0	0	-0.04664	
Adrenaline 1mM	1000000	0.463035	0.57392	0.680409	0.654641	0.64785	0.5609	0.575303	0.54353	0.533229	0	0	0	0.567934	
Adrenaline 100uM	100000	0.576932	0.51415	0.63398	0.547847	0.467596	0.370675	0.416147	0.619397	0.379071	0.49629	0.572353	0.5781	0.514371	0.089895
Adrenaline 10uM	10000	0.571906	0.562986	0.336593	0.277317	0.201285	0.267292	0.171319	0.309766	0.304976	0.222378	0.402894	0.370702	0.334034	0.127794
Adrenaline 1uM	1000	0.263638	0.199332	0.147867	0.138014	0.11307	0.143043	0.071892	0.159119	0.144682	0.123798	0.129612	0.128095	0.144572	0.041439
Adrenaline 100nM	100	0.032552	-0.00636	0.019104	0.015082	0.053104	0.0114	-0.01779	0.027575	0.018305	0	0	0	0.017355	
Adrenaline 10nM	10	-0.01803	0.00832	0.009432	0.025275	0.052211	-0.00486	0.01361	0.039970	0.006963	0	0	0	0.009699	
Adrenaline 1nM	1	-0.0102	-0.01384	0.014224	0.004534	0.037719	-0.00633	0.03471	0.040481	-0.02203	0	0	0	-0.00186	