

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).

NMS (VT) n=11	1	2	3	4	5	6	7	8	9	10	11	Average	SD	
Base	S010-1	S011-1	S020-1	S018-1	S022-1	S025-1	S027-1	S028-1	S030-1	S033-1	S038-1			
Isoproterenol 5mM	5000000	0.568767	0.702749	0.628075	0.718965	0.686357						0.660983		
Isoproterenol 500uM	500000	0.586099	0.835331	0.559142	0.661661	0.695396						0.667526		
Isoproterenol 50uM	50000	0.733721	0.769463	0.621584	0.492343	0.732965	0.420591	0.570836	0.438792	0.457682	0.632723	0.293867	0.560415	0.152698
Isoproterenol 5uM	5000	0.621524	0.738501	0.595527	0.451198	0.652359	0.340368	0.346525	0.266383	0.396637	0.544286	0.220749	0.470369	0.170573
Isoproterenol 500nM	500	0.296127	0.533742	0.48135	0.366337	0.559745	0.290534	0.063594	0.172424	0.259442	0.396763	0.168341	0.326218	0.158884
Isoproterenol 50nM	50	-0.02922	0.057122	0.090342	0.113573	0.07349							0.061062	
Isoproterenol 5nM	5	-0.0404	-0.02934	0.061009	0.0196	-0.0191							-0.00165	
Adrenaline 1mM	1000000	0.487138	0.750893	0.586864	0.701958	0.672472							0.639865	
Adrenaline 100uM	100000	0.684176	0.827716	0.62053	0.572592	0.748171	0.650868	0.567394	0.742349	0.653562	0.704688	0.431794	0.652328	0.107929
Adrenaline 10uM	10000	0.676036	0.696738	0.619195	0.462099	0.617245	0.380325	0.333458	0.29156	0.364902	0.546487	0.202504	0.471868	0.168761
Adrenaline 1uM	1000	0.2505	0.46025	0.355847	0.25945	0.452598	0.17769	0.07432	0.023519	0.250302	0.206664	0.11138	0.238411	0.14267
Adrenaline 100nM	100	0.014842	0.035339	0.071953	0.021223	0.023457							0.033363	
Adrenaline 10nM	10	0.002706	0.012973	0.020693	0.019091	-0.00712							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	0.567395	0.681576	0.61814	0.682051	0.666079						0.643048		
Isoproterenol 500uM	500000	0.596599	0.777989	0.531318	0.689018	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	0.522241	0.148235
Isoproterenol 5uM	5000	0.614095	0.645358	0.541985	0.540967	0.607188	0.324837	0.294697	0.26714	0.344974	0.472921	0.196118	0.435144	0.156784
Isoproterenol 500nM	500	0.316829	0.522743	0.396833	0.399744	0.557719	0.235201	0.036007	0.132435	0.254846	0.272694	0.16503	0.299075	0.160797
Isoproterenol 50nM	50	0.002822	0.05555	0.103269	0.148853	0.079493							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	0.773556	0.554981	0.616481	0.742601	0.614422	0.516414	0.720865	0.518816	0.66297	0.43818	0.618596	0.104676
Adrenaline 10uM	10000	0.657167	0.62745	0.500829	0.44446	0.585747	0.329431	0.286579	0.318732	0.334241	0.44186	0.199594	0.430308	0.15054
Adrenaline 1uM	1000	0.260674	0.387023	0.271924	0.267841	0.405729	0.139165	0.033594	0.055666	0.121953	0.091769	0.07886	0.192191	0.13222
Adrenaline 100nM	100	0.003545	0.077247	0.050537	0.05242	0.008616							0.037833	
Adrenaline 10nM	10	-0.00232	0.028567	0.021912	-0.0108	-0.01898							0.003695	
Adrenaline 1nM	1	0.004926	0.026981	-0.00411	-0.05271	-0.02387							-0.00976	
10 min	S010-3	S011-3	S020-3	S018-3	S022-3	S025-3	S027-3	S028-3	S030-3	S033-3	S038-3			
Isoproterenol 5mM	5000000	0.504606	0.640308	0.622595	0.642863	0.61086						0.604247		
Isoproterenol 500uM	500000	0.51933	0.758241	0.515928	0.79548	0.574282						0.632652		
Isoproterenol 50uM	50000	0.743942	0.851982	0.74846	0.691033	0.720393	0.442187	0.48591	0.538029	0.370512	0.580232	0.277888	0.586415	0.180438
Isoproterenol 5uM	5000	0.719171	0.786167	0.711526	0.649533	0.647722	0.355551	0.347945	0.3955	0.242978	0.51458	0.218619	0.508118	0.204569
Isoproterenol 500nM	500	0.394464	0.624263	0.539591	0.501392	0.4531	0.246001	0.064996	0.276522	0.081793	0.337905	0.161485	0.334683	0.188661
Isoproterenol 50nM	50	0.030549	0.121082	0.027205	0.080389	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 100uM	100000	0.692489	0.85246	0.513948	0.760478	0.670876	0.666506	0.501271	0.789848	0.657763	0.697239	1.201654	0.727685	0.188713
Adrenaline 10uM	10000	0.678469	0.75921	0.619409	0.648548	0.645979	0.378521	0.340734	0.419322	0.289854	0.469217	0.80867	0.557267	0.181659
Adrenaline 1uM	1000	0.378033	0.559693	0.38548	0.341349	0.365023	0.138492	0.029099	0.149118	-0.00617	0.17563	0.302689	0.256221	0.17238
Adrenaline 100nM	100	0.003833	0.123474	0.014661	0.00831	0.008865							0.031829	
Adrenaline 10nM	10	-0.01047	0.099127	-0.00081	-0.03207	-0.02395							0.006365	
Adrenaline 1nM	1	-0.03997	0.06751	-0.00233	-0.04748	-0.03276							-0.01701	
20 min	S010-4	S011-4	S020-4	S018-4	S022-4	S025-4	S027-4	S028-4	S030-4	S033-4	S038-4			
Isoproterenol 5mM	5000000	0.496711	0.615417	0.609225	0.641134	0.650141						0.602531		
Isoproterenol 500uM	500000	0.483746	0.714936	0.474665	0.725084	0.570216						0.594089		
Isoproterenol 50uM	50000	0.726675	0.851575	0.467004	0.564148	0.583106	0.555561	0.46789	0.943602	0.425595	0.798589	0.383465	0.615201	0.187159
Isoproterenol 5uM	5000	0.663717	0.787797	0.635865	0.526052	0.528271	0.42243	0.305321	0.823986	0.237546	0.740131	0.3006	0.542883	0.206041
Isoproterenol 500nM	500	0.348455	0.570592	0.104036	0.363326	0.341548	0.298335	0.076658	0.605585	0.123164	0.395797	0.232739	0.314534	0.174834
Isoproterenol 50nM	50	0.023837	0.010731	-0.04001	0.016022	-0.01069							-2.3E-05	
Isoproterenol 5nM	5	-0.00582	-0.0156	-0.05977	-0.05355	-0.0474							-0.03643	
Adrenaline 1mM	1000000	0.516423	0.684465	0.570804	0.656563	0.671085							0.601681	
Adrenaline 100uM	100000	0.657282	0.862138	0.425849	0.652369	0.558295	0.675027	0.507124	1.034919	0.624778	0.869849	0.496692	0.669466	0.184746
Adrenaline 10uM	10000	0.670621	0.79486	0.657951	0.497933	0.536603	0.369575	0.31338	0.847719	0.286675	0.698028	0.3166	0.543377	0.20292
Adrenaline 1uM	1000	0.37494	0.612562	0.204264	0.245087	0.312681	0.11157	0.039975	0.304423	0.069236	0.239623	0.163045	0.244301	0.160999
Adrenaline 100nM	100	0.041646	0.135315	-0.01526	0.021547	0.05079							0.047665	
Adrenaline 10nM	10	0.04105	0.069168	-0.03001	0.007554	0.026889							0.022931	
Adrenaline 1nM	1	0.041774	0.028757	0.013725	0.003925	0.005555							0.018747	

Healthy n=12	1	2	3	4	5	6	7	8	9	10	11	12	Average	SD	T-test	
Base	C36-1	C37-1	C38-1	C40-1	C41-1	C43-1	C46-1	C47-1	C48-1	C050-1	C051-1	C053-1				
Isoproterenol 5mM	5000000	0.575502	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	0.549955	0.627609	0.598349	0.549981	0.486665	0.621838	0.556789	0.53584	0	0	0.571728			
Isoproterenol 50uM	50000	0.765834	0.441879	0.351528	0.339658	0.216537	0.378901	0.363962	0.275046	0.444081	0.232386	0.45709	0.590449	0.404779	0.154299	0.01212
Isoproterenol 5uM	5000	0.640779	0.356776	0.255737	0.26817	0.113567	0.353159	0.274708	0.20157	0.409016	0.125952	0.436873	0.527037	0.330279	0.15716	0.027111
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	0.09061	