

S6 Table. The raw data of adenylate cyclase activities from 12 healthy volunteers and 6 MT patients at HUT test by adrenaline (AD) and isoproterenol (IP).

NMS n=6										Healthy n=12																	
Base	1	2	3	4	5	6	Ave.	SD			Base	1	2	3	4	5	6	7	8	9	10	11	12	Average	SD	T-test	
Isoproterenol 5mM	500000	0.629416	0.699681	0.640418	0.582631	0.5039-1	0.5040-2	<b>0.639542</b>	<b>0.045861</b>		Isoproterenol 5mM	500000	0.575502	0.66463	0.695884	0.692927	0.678168	0.616207	0.66928	0.626701	0.586175	0	0	0	0	0	<b>0.52777</b>
Isoproterenol 500uM	500000	0.559633	0.635825	0.53767	0.517951			<b>0.562769</b>	<b>0.015193</b>		Isoproterenol 500uM	500000	0.685033	0.545955	0.627609	0.598349	0.549981	0.486665	0.621838	0.556789	0.53584	0	0	0	0	0	<b>0.47346</b>
Isoproterenol 50uM	50000	0.367988	0.386541	0.353047	0.326346	0.196832	0.239483	<b>0.311706</b>	<b>0.076239</b>		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	<b>0.053075</b>
Isoproterenol 5uM	5000	0.292338	0.294398	0.311931	0.228663	0.145699	0.175552	<b>0.24143</b>	<b>0.069333</b>		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	<b>0.330279</b>	<b>0.15716</b>	<b>0.058083</b>
Isoproterenol 500nM	500	0.179299	0.213354	0.188547	0.143998	0.135114	0.16402	<b>0.170722</b>	<b>0.029106</b>		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	<b>0.222969</b>	<b>0.090619</b>	<b>0.044758</b>
Isoproterenol 50nM	50	-0.04658	0.044483	0.050312	0.035112			<b>0.020831</b>	<b>0.045377</b>		Isoproterenol 50nM	50	-0.00447	-0.03872	0.05684	0.102597	0.030603	0.050547	0.101048	0.041667	0.04824	0	0	0	0	<b>0.027041</b>	
Isoproterenol 5nM	5	-0.02739	-0.03118	0.011821	-0.03079			<b>-0.01939</b>	<b>0.020875</b>		Isoproterenol 5nM	5	-0.02807	-0.02625	-0.04086	-0.00476	0.021786	-0.00598	-0.00086	0.004312	-0.02629	0	0	0	0	<b>-0.00972</b>	
Adrenaline 1mM	1000000	0.602188	0.703524	0.609078	0.547432			<b>0.615555</b>	<b>0.064807</b>		Adrenaline 1mM	1000000	0.521069	0.636478	0.680594	0.698643	0.653925	0.615496	0.642209	0.57025	0.560823	0	0	0	0	<b>0.507226</b>	
Adrenaline 100uM	100000	0.477584	0.546374	0.459416	0.425863	0.553276	0.498887	<b>0.493567</b>	<b>0.049775</b>		Adrenaline 100uM	100000	0.761974	0.473305	0.506677	0.504345	0.458885	0.484882	0.585582	0.488452	0.470625	0.464659	0.61892	0.675834	<b>0.541178</b>	<b>0.097983</b>	<b>0.095287</b>
Adrenaline 10uM	10000	0.251743	0.307234	0.294726	0.206934	0.184153	0.262383	<b>0.251196</b>	<b>0.048196</b>		Adrenaline 10uM	10000	0.648401	0.318276	0.261932	0.259273	0.111025	0.379446	0.283347	0.204512	0.371972	0.163163	0.416767	0.504962	<b>0.326923</b>	<b>0.149877</b>	<b>0.066226</b>
Adrenaline 1uM	1000	0.119948	0.161568	0.172037	0.098696	0.047194	0.063337	<b>0.110463</b>	<b>0.057076</b>		Adrenaline 1uM	1000	0.276602	0.127793	0.113756	0.127035	0.07354	0.359127	0.139345	0.097657	0.174706	0.0945	0.209908	0.233382	<b>0.168946</b>	<b>0.085663</b>	<b>0.044716</b>
Adrenaline 100nM	100	-0.0088	0.009609	0.041574	0.013837			<b>0.014056</b>	<b>0.020811</b>		Adrenaline 100nM	100	0.004949	0.000302	-0.00944	0.049311	0.044332	0.265821	0.014158	0.017002	0.027011	0	0	0	0	<b>0.037586</b>	
Adrenaline 10nM	10	-0.01817	-0.02039	0.043742	0.012973			<b>0.004538</b>	<b>0.03025</b>		Adrenaline 10nM	10	-0.01609	-0.00296	0.035078	0.047313	0.020914	0.051841	0.003003	0.005244	0.027658	0	0	0	0	<b>0.015636</b>	
Adrenaline 1nM	1	-0.04184	-0.03327	-0.00215	-0.01919			<b>-0.02411</b>	<b>0.017366</b>		Adrenaline 1nM	1	-0.03253	-0.01143	0.011143	0.010164	0.008347	-0.01477	0.006562	-0.01425	-0.01318	0	0	0	0	<b>-0.00454</b>	
70°										70°																	
Base	1	2	3	4	5	6	Ave.	SD			Base	1	2	3	4	5	6	7	8	9	10	11	12	Average	SD	T-test	
Isoproterenol 5mM	5000000	0.635191	0.700735	0.631188	0.58767			<b>0.638606</b>	<b>0.046464</b>		Isoproterenol 5mM	5000000	0.540608	0.610219	0.701339	0.675345	0.65798	0.585305	0.641233	0.6516	0.580769	0	0	0	0	0	<b>0.513102</b>
Isoproterenol 500uM	500000	0.589408	0.64624	0.519012	0.552729			<b>0.576847</b>	<b>0.045466</b>		Isoproterenol 500uM	500000	0.609467	0.501615	0.604967	0.628939	0.519893	0.436723	0.532393	0.677576	0.497326	0	0	0	0	<b>0.46081</b>	
Isoproterenol 50uM	50000	0.390474	0.382622	0.311407	0.317287	0.156795	0.223733	<b>0.297053</b>	<b>0.091338</b>		Isoproterenol 50uM	50000	0.701006	-0.38992	0.277178	0.370136	0.164946	0.357192	0.276163	0.412235	0.384919	0.162713	0.457463	0.590068	<b>0.378662</b>	<b>0.156597</b>	<b>0.091763</b>
Isoproterenol 5uM	5000	0.312679	0.272516	0.257444	0.231851	0.073495	0.156341	<b>0.217388</b>	<b>0.087596</b>		Isoproterenol 5uM	5000	0.605642	0.309221	0.199197	0.299357	0.111925	0.257048	0.161475	0.292475	0.298717	0.128747	0.460466	0.531201	<b>0.304623</b>	<b>0.156206</b>	<b>0.074785</b>
Isoproterenol 500nM	500	0.215852	0.177094	0.136247	0.170848	0.084296	0.147212	<b>0.155288</b>	<b>0.044392</b>		Isoproterenol 500nM	500	0.356867	0.145321	0.167315	0.232847	0.054602	0.169873	0.088058	0.200724	0.205905	0.108746	0.302144	0.388832	<b>0.201769</b>	<b>0.103897</b>	<b>0.017609</b>
Isoproterenol 50nM	50	0.010102	0.024513	-0.01777	0.056167			<b>0.018115</b>	<b>0.030548</b>		Isoproterenol 50nM	50	0.013634	-0.01311	0.10221	0.124296	0.026071	-0.06476	-0.02964	0.061021	0.072152	0	0	0	0	<b>0.026534</b>	
Isoproterenol 5nM	5	-0.03631	-0.0225	-0.0124	0.030218			<b>-0.01025</b>	<b>0.028703</b>		Isoproterenol 5nM	5	-0.01947	-0.02522	0.020029	0.036247	-0.00439	-0.14128	-0.04897	0.014085	-0.00481	0	0	0	0	<b>-0.0158</b>	
Adrenaline 1mM	1000000	0.618843	0.710809	0.584996	0.562071			<b>0.61918</b>	<b>0.065386</b>		Adrenaline 1mM	1000000	0.495798	0.569605	0.704251	0.678227	0.631304	0.532862	0.604557	0.585728	0.53985	0	0	0	0	<b>0.485653</b>	
Adrenaline 100uM	100000	0.48837	0.529095	0.407421	0.434569	0.408176	0.452572	<b>0.453367</b>	<b>0.04789</b>		Adrenaline 100uM	100000	0.705793	0.417502	0.453322	0.256434	0.412419	0.357069	0.460932	0.634343	0.413427	0.418743	0.579005	0.68229	<b>0.50587</b>	<b>0.118856</b>	<b>0.101355</b>
Adrenaline 10uM	10000	0.289032	0.283581	0.241425	0.229432	0.108052	0.177597	<b>0.212152</b>	<b>0.068808</b>		Adrenaline 10uM	10000	0.617504	0.281772	0.188715	0.265434	0.104945	0.232808	0.176941	0.309194	0.295352	0.143949	0.37588	0.465157	<b>0.287633</b>	<b>0.143551</b>	<b>0.102607</b>
Adrenaline 1uM	1000	0.155253	0.137498	0.100439	0.120503	0.013378	-0.00822	<b>0.086475</b>	<b>0.067819</b>		Adrenaline 1uM	1000	0.289071	0.109531	0.118544	0.143075	0.072936	0.041349	0.07664	0.153219	0.152798	0.107439	0.157874	0.150286	<b>0.131063</b>	<b>0.062326</b>	<b>0.104326</b>
Adrenaline 100nM	100	0.004206	-0.00584	0.001725	0.026291			<b>0.006595</b>	<b>0.013809</b>		Adrenaline 100nM	100	0.023548	0.011804	0.022636	0.031326	0.028094	-0.12746	-0.0394	0.025233	0.031774	0	0	0	0	<b>0.000687</b>	
Adrenaline 10nM	10	-0.0198	0.007868	-0.00845	0.04204			<b>0.005416</b>	<b>0.026927</b>		Adrenaline 10nM	10	0.014744	0.001621	0.014448	0.012697	0.026009	-0.12534	-0.00858	0.003152	0.017522	0	0	0	0	<b>-0.00397</b>	
Adrenaline 1nM	1	-0.0343	-0.01639	0.000838	-0.00435			<b>-0.01355</b>	<b>0.015601</b>		Adrenaline 1nM	1	0.00012	-0.02532	0.033895	-0.02517	0.00936	-0.139	-0.02015	0.011234	-0.04243	0	0	0	0	<b>-0.01795</b>	
10 min										10 min																	
Base	1	2	3	4	5	6	Ave.	SD			Base	1	2	3	4	5	6	7	8	9	10	11	12	Average	SD	T-test	
Isoproterenol 5mM	5000000	0.650323	0.653414	0.596605	0.565789			<b>0.616533</b>	<b>0.042716</b>		Isoproterenol 5mM	5000000	0.469615	0.605519	0.638631	0.658659	0.651187	0.58504	0.602827	0.586696	0.549822	0	0	0	0	0	<b>0.48618</b>
Isoproterenol 500uM	500000	0.677198	0.626104	0.508777	0.441475			<b>0.563388</b>	<b>0.107596</b>		Isoproterenol 500uM	500000	0.505705	0.505436	0.600133	0.611908	0.531388	0.428744	0.455444	0.56219	0.452828	0	0	0	0	0	<b>0.423071</b>
Isoproterenol 50uM	50000	0.545272	0.527306	0.499441	0.319967	0.171468	0.600625	<b>0.444013</b>	<b>0.163987</b>		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	0.520767	<b>0.396493</b>	<b>0.132411</b>	<b>0.276899</b>
Isoproterenol 5uM	5000	0.506127	0.377846	0.482369	0.178227	0.088993	0.596314	<b>0.371646</b>	<b>0.199079</b>		Isoproterenol 5uM	5000	0.573857	0.357813	0.289166	0.421053	0.13344	0.240197	0.138893	0.274154	0.296574	0.18943	0.355666	0.481964	<b>0.312684</b>	<b>0.134018</b>	<b></b>