

ROI	Hemisphere	<i>t</i> -value	<i>p</i> -unc
<i>ANS, Rhythm &gt; Normal</i>			
SPL	Left	4.72	.0003.
	Right	2.62	.0203
aSMQ	Left	4.11	.0011
mdPMC	Right	3.98	.0014
	Left	2.25	.0418
PT	Left	3.82	.0019
	Right		
SMA	Left	3.36	.0046
aINS	Left	3.29	.0054 PP
	Left	3.18	.0066
	Right	3.00	.0096
ITO	Left	3.06	.0085
	Right	2.17	.0480
preSMA	Left	2.79	.0145
pdPMC	Left	2.78	.0148
FMC	Left	2.76	.0152
vPMC	Right	2.59	.0213
PO	Left	2.53	.0242
pSMg	Right	2.43	.0293
	Left	2.24	.0418
aCG	Right	2.42	.0296
aSTg	Right	2.38	.0319
pSTg	Right	2.38	.0321
dMC	Left	2.33	.0355
<i>ANS, Normal &gt; Rhythm</i>			
pIFt	Right	2.39	.0315
<i>AWS, Rhythm &gt; Normal</i>			
vIFo	Right	3.06	.0092
pSMg	Right	2.51	.0260
dIFo	Right	2.27	.0411
<i>AWS, Normal &gt; Rhythm</i>			
pPHg	Right	2.68	.0190
aIFt	Right	2.30	.0388
H	Right	2.20	.0466
CbmVIIIb	Left	3.20	.0070
CbmiX	Right	2.52	.0256
GPe	Right	2.22	.0449

**Supplemental Table S3.** Exploratory regions-of-interest with activation differences between the *rhythm* and *normal* conditions for ANS and AWS ( $p < .05$ ). \* indicates regions that survive a significance threshold of  $p_{FDR} < .05$  for their respective analyses, unc = uncorrected, SPL = superior parietal lobule, aSMg = anterior supramarginal gyrus, mdPMC = middle dorsal premotor cortex, PT = planum temporale, SMA = supplementary motor area, aINS = anterior insula, PP = planum polare, ITO = inferior temporo-occipital cortex, preSMA = presupplementary motor area, pdPMC = posterior dorsal premotor cortex, FMC = fronto-medial cortex, vPMC = ventral premotor cortex, PO = parietal operculum, pSMg = posterior supramarginal gyrus, aCG = anterior cingulate gyrus, aSTg = anterior superior temporal gyrus, pSTg = posterior superior temporal gyrus, dMC = dorsal primary motor cortex, pIFt = posterior inferior frontal gyrus pars triangularis, vIFo = ventral inferior frontal gyrus pars opercularis, dIFo = dorsal inferior frontal gyrus pars opercularis, pPHg = posterior parahippocampal gyrus, aIFt = anterior inferior frontal gyrus pars triangularis, H = Heschl’s gyrus, Cbm = cerebellum, GPe = external portion of the globus pallidus.