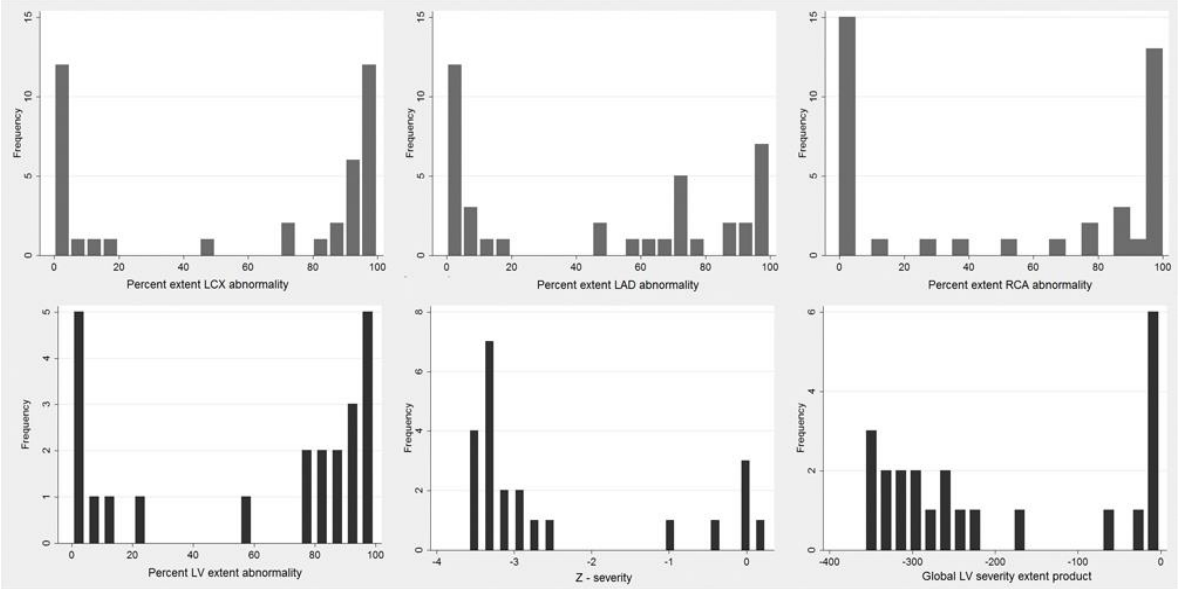
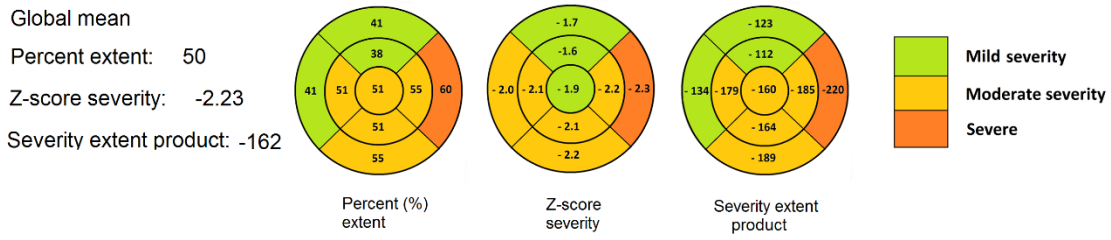


Supplemental Figure 1.

(A) Bar chart demonstrating the frequency distribution of cardiac sympathetic denervation in 39 patients with IPD on ^{11}C-HED PET scans with respect to Percent % LV Extent Abnormality in the (left) Left Circumflex (middle) Left Anterior Descending and (right) Right coronary artery, territories. There is a binomial distribution with patients either having severe cardiac sympathetic denervation or normal or relatively mild denervation. This pattern is most pronounced in the Left Circumflex territory. (B) Bar chart demonstrating the frequency distribution of 23 patients with IPD at baseline ^{11}C-HED PET imaging, with respect to global LV parameters; (left) Percent % LV Extent, (middle) z-score severity and (right) Severity Extent Product (SEP). There is a binomial distribution of these parameters with the SEP divided into normal (n=5), mild (n=3) and severe (n=15) categories on baseline ^{11}C-HED PET.



Supplemental Figure 2.

Bullseye plots using a 9-segment model summarizing the segmental distribution of sympathetic denervation with respect to mean percentage extent, z-score severity and severity extent product (SEP), in comparison to the global mean measurements. As we have previously described in 27 patients, the lateral wall displays greater extent involvement and more severe reduction of ^{11}C-HED retention in comparison to the anterior and proximal septal walls, confirmed in this cohort of 39 pts.

SUPPLEMENTAL TABLE 1

Demographics and cardiac ^{11}C-HED retention measurements ranked by percentage extent.

Patient No.	Gender	Age (y)	Duration (y)	[^{11}C]HED Retention Index			Percentage Extent Global	LCX	LAD	RCA	Z-Score Severity Global		
1	m	63	4.0	0.069	±	0.013	0.0%	0%	0%	0%	-0.97	±	0.70
2	m	72	3.0	0.085	±	0.009	0.0%	0%	0%	0%	-0.01	±	0.52
3	m	73	5.0	0.064	±	0.014	0.0%	0%	0%	0%	0.00	±	0.00
4	m	64	3.0	0.071	±	0.009	0.0%	0%	0%	0%	0.00	±	0.00
5	f	65	8.0	0.089	±	0.011	0.0%	0%	0%	0%	0.00	±	0.00
6	m	63	14.0	0.065	±	0.009	0.0%	0%	0%	0%	0.00	±	0.00
7	m	62	4.0	0.070	±	0.009	0.0%	0%	0%	0%	0.00	±	0.00
8	m	64	1.5	0.086	±	0.014	0.0%	0%	0%	0%	0.03	±	0.60
9	f	54	2.0	0.090	±	0.022	0.0%	0%	0%	0%	0.28	±	1.23
10	m	66	4.0	0.091	±	0.007	0.0%	0%	0%	0%	0.36	±	0.51
11	m	52	2.0	0.093	±	0.012	0.0%	0%	0%	0%	0.49	±	0.65
12	m	66	5.0	0.059	±	0.007	4.6%	11%	3%	3%	-1.62	±	0.53
13	m	62	1.0	0.057	±	0.010	7.7%	19%	5%	1%	-2.73	±	0.20
14	m	63	8.0	0.064	±	0.017	8.3%	7%	11%	0%	-2.63	±	0.08
15	f	72	3.0	0.080	±	0.021	12.1%	0%	19%	0%	-0.39	±	1.02
16	m	55	3.0	0.054	±	0.007	15.4%	45%	5%	14%	-2.73	±	0.19
17	m	60	2.0	0.055	±	0.010	23.1%	73%	5%	25%	-2.74	±	0.20
18	m	57	8.0	0.044	±	0.010	57.9%	90%	48%	51%	-2.97	±	0.29
19	m	61	5.0	0.043	±	0.005	59.8%	81%	45%	89%	-2.91	±	0.27
20	m	57	2.0	0.042	±	0.009	66.7%	94%	65%	35%	-2.71	±	0.53
21	m	70	6.0	0.041	±	0.008	67.5%	93%	56%	79%	-3.08	±	0.39
22	f	53	4.5	0.039	±	0.007	70.2%	74%	62%	100%	-3.19	±	0.50
23	f	59	2.0	0.038	±	0.007	75.4%	86%	71%	79%	-3.18	±	0.43
24	m	65	3.0	0.040	±	0.008	76.0%	94%	72%	67%	-3.00	±	0.37
25	m	52	7.0	0.037	±	0.012	80.8%	98%	74%	85%	-3.26	±	0.41
26	m	50	5.0	0.037	±	0.007	82.1%	100%	71%	100%	-3.18	±	0.45
27	m	62	3.0	0.035	±	0.009	82.9%	100%	73%	99%	-3.14	±	0.66

28	m	61	1.0	0.035	±	0.005	87.1%	100%	79%	100%	-3.26	±	0.51
29	m	69	3.0	0.034	±	0.006	89.2%	94%	86%	96%	-3.26	±	0.44
30	f	64	3.0	0.034	±	0.006	91.5%	100%	86%	100%	-3.23	±	0.49
31	m	60	10.0	0.033	±	0.007	92.9%	100%	92%	88%	-3.30	±	0.40
32	f	62	7.0	0.033	±	0.008	93.8%	85%	97%	93%	-3.33	±	0.44
33	f	71	3.0	0.029	±	0.008	95.0%	100%	92%	100%	-3.55	±	0.49
34	m	61	3.0	0.031	±	0.006	96.9%	100%	95%	99%	-3.38	±	0.50
35	f	56	13.0	0.032	±	0.005	97.3%	94%	98%	100%	-3.32	±	0.37
36	m	69	8.0	0.027	±	0.006	97.5%	100%	96%	99%	-3.63	±	0.54
37	m	61	1.0	0.028	±	0.006	97.9%	100%	97%	100%	-3.58	±	0.45
38	m	63	8.0	0.027	±	0.005	99.2%	100%	99%	100%	-3.61	±	0.49
39	m	55	7.0	0.028	±	0.005	100.0%	100%	100%	100%	-3.57	±	0.43

LAD = left anterior descending artery, LCX = left circumflex artery, RCA = right coronary artery