

SUPPLEMENTAL DATA

Supplemental Table 1. Histological type (American Heart Association criteria) and features of excised plaques & CD68 result

Patient Number	Plaque type	Lipid core	Thrombus	Intraplaque haemorrhage	Ulceration	CD68
1	Vb	Yes	No	No	No	>15%
2	VI	Yes	No	No	Yes	>15%
3	VI	Yes	No	No	Yes	5-15%
4	Vb	Yes	No	No	No	5-15%
5	Vb	Yes	No	No	No	>15%
6	Va	No	No	No	No	<5%
7	Va	No	No	No	No	5-15%
8	VI	Yes	No	Yes	Yes	>15%
9	Va	Yes	No	No	No	>15%
10	Va	Yes	No	No	No	>15%
11	VI	Yes	No	No	Yes	>15%
12	Vb	No	No	No	No	5-15%
13	VI	No	No	No	Yes	5-15%
14	Vb	No	No	No	No	<5%
15	Vb	No	No	No	No	5-15%
16	Vb	Yes	No	No	No	5-15%
17	Vc	No	No	No	No	5-15%
18	VI	Yes	No	Yes	No	>15%
19	VI	Yes	No	No	Yes	<5%
20	Vb	Yes	No	No	No	>15

Supplemental Table 2. Intraclass correlation coefficient

Volume plaque method		Intra-observer	Inter-observer*
Endarterectomy	SUVmax	0.98(0.94-0.99)	0.97(0.91-0.99)
	SUVmean	0.98(0.96-0.99)	0.98(0.95-0.99)
	TBRmax	0.71(0.41-0.87)	0.61(0.25-0.83)
	TBRmean	0.75(0.48-0.89)	0.63(0.25-0.84)
Contralateral	SUVmax	0.98(0.96-0.99)	0.97(0.90-0.99)
	SUVmean	0.99(0.98-1.00)	0.98(0.97-1.00)
	TBRmax	0.80(0.57-0.92)	0.63(0.26-0.84)
	TBRmean	0.83(0.61-0.93)	0.72(0.38-0.89)
Most intense pixel/ROI value method		Intra-observer	Inter-observer*
Endarterectomy	maxSUVmax	0.94(0.85-0.98)	0.96(0.88-0.98)
	maxSUVmean	0.95(0.89-0.98)	0.93(0.84-0.97)
	maxTBRmax	0.70(0.40-0.87)	0.61(0.24-0.83)
	maxTBRmean	0.82(0.61-0.93)	0.48(0.03-0.76)
Contralateral	maxSUVmax	0.99(0.97-1.00)	0.95(0.84-0.98)
	maxSUVmean	0.99(0.97-1.00)	0.97(0.93-0.99)
	maxTBRmax	0.79(0.55-0.92)	0.77(0.46-0.91)
	maxTBRmean	0.84(0.64-0.94)	0.73(0.40-0.89)

*excludes 1 outlier

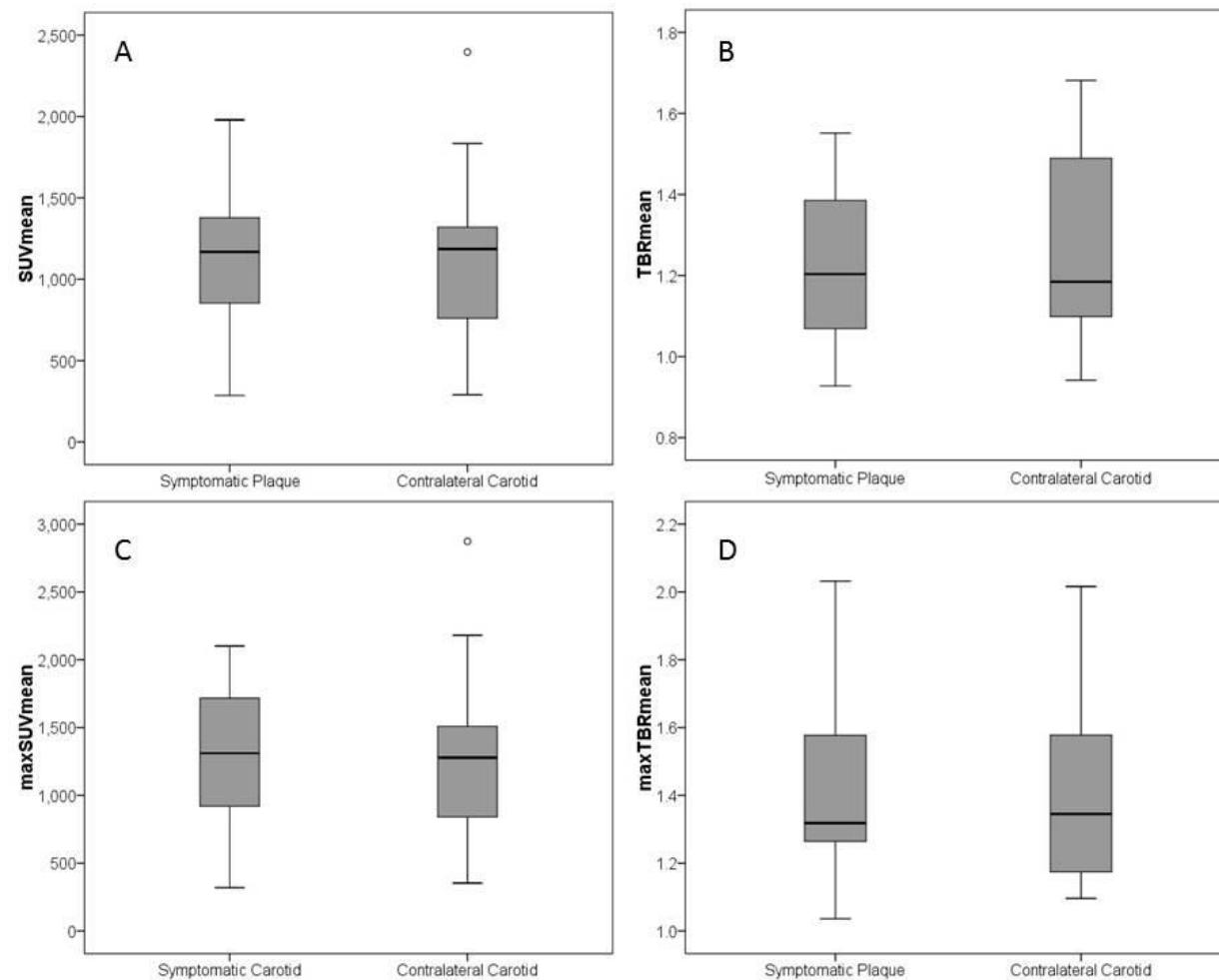
Supplemental Table 3. CT plaque composition analysis & correlation with Ga68DOTATATE uptake parameters.

	% Plaque Volume		Volume Plaque Method				Most intense pixel/ROI method			
			SUV max	SUV mean	TBR max	TBR mean	maxSUV max	maxSUVm ean	maxTBR max	maxTBR mean
Lipid	32.3+/-10.3	r-value	-0.49	-0.49	-0.08	0.02	-0.37	-0.43	0.03	0.10
		p-value	0.06	0.06	0.78	0.95	0.17	0.11	0.92	0.72
Fibrous	42.5+/-10.6	r-value	-0.12	-0.08	0.05	0.43	-0.04	-0.04	0.01	0.44
		p-value	0.68	0.79	0.85	0.11	0.89	0.90	0.96	0.10
Calcification	25.2+/-14.7	r-value	0.28	0.24	0.00	-0.34	0.18	0.19	-0.03	-0.36
		p-value	0.31	0.39	0.99	0.22	0.52	0.49	0.91	0.18

Supplemental Table 4. Relationship between CD68 immunohistochemistry with Ga68DOTATATE uptake parameters.

	Volume Plaque Method				Most intense pixel/ROI method			
	SUV max	SUV mean	TBR max	TBR mean	maxSUV max	maxSUV mean	maxTBR max	maxTBR mean
<i>p</i> -value	0.74	0.81	0.9	0.83	0.42	0.68	0.33	0.54

Supplemental Figure 1. Further box plots showing comparison of further PET derived parameters between the symptomatic plaque and contralateral side. A,B: SUVmean and TBRmean from the volume plaque method; C,D: maxSUVmean and maxTBRmean from the most intense pixel/ROI method. (see main text).



Supplemental Figure 2. Example plot of 2 parameters showing individual patient data. (Plots for other parameters not shown).

