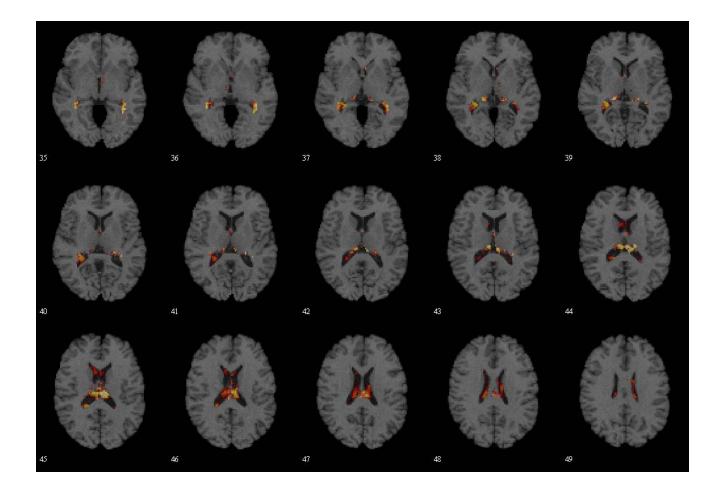
SUPPLEMENTARY DATA

Supplementary Figure 1. 2D axial plots of trends (p<0.05) detected by ODVBA for group differences between VN RAVENS maps of long and short diabetes duration groups. Subjects with long diabetes duration (n=100) had higher RAVENS values, i.e.higher regional ventricular volume, in the highlighted areas, compared to subjects with short diabetes duration (n=100).The colormap from red to yellow indicates less to more significance respectively.



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SUPPLEMENTARY DATA

Supplementary Table 1.	Reasons for missing or excluded scans across treatment groups

	Glycemia In	Glycemia Intervention*		
Reason	Intensive	Standard		
Reason	(n=294)	(n=320)		
Death before 40 month visit	11 (3.7)	7 (2.2)		
Poor image quality	6 (2.0)	3 (0.9)		
MRI exclusion	8 (2.7)	5 (1.6)		
Image processing QC exclusion	9 (3.0)	6 (1.9)		
Claustrophobic / very high BMI	3 (1.0)	2 (0.6)		
Refused / Withdrew Consent	11 (3.7)	6 (1.9)		
Moved	7 (2.4)	5 (1.6)		
Unknown	18 (6.1)	19 (5.9)		
Total	73 (21.8)	53 (14.7)		

* Data shown are N (percent of total available baseline scans)

SUPPLEMENTARY DATA

		Glycemia Arm		
	Overall	Standard	Intensive	
	(N=488)	(N=267)	(N=221)	P-value
Age (years)	62.2 ± 5.6	62.5 ± 5.8	61.8 ± 5.5	0.2216
Women	223 (45.7%)	126 (47.2%)	97 (43.9%)	0.4664
Education			· · · · · · · · · · · · · · · · · · ·	0.9546
Less than high school graduate	45 (9.2%)	23 (8.6%)	22 (10.0%)	
High school graduate or GED	119 (24.4%)	65 (24.3%)	54 (24.4%)	
Some college/technical school	163 (33.4%)	89 (33.3%)	74 (33.5%)	
College graduate or more	161 (33.0%)	90 (33.7%)	71 (32.1%)	
Clinical Center Network		, , ,	, ,	0.8272
3-CCN-Minn/Iowa	230 (47.1%)	128 (47.9%)	102 (46.2%)	
4-CCN-Ohio/Mich	68 (13.9%)	34 (12.7%)	34 (15.4%)	
5-CCN-Northeast	64 (13.1%)	34 (12.7%)	30 (13.6%)	
6-CCN-Southeast	126 (25.8%)	71 (26.6%)	55 (24.9%)	
Race/Ethnicity			, , ,	0.9260
White only	331 (67.8%)	185 (69.3%)	146 (66.1%)	
Spanish/Hispanic	31 (6.4%)	16 (6.0%)	15 (6.8%)	
Black, non Hispanic	84 (17.2%)	44 (16.5%)	40 (18.1%)	
Asian, not Hispanic or Black	7 (1.4%)	3 (1.1%)	4 (1.8%)	
Other	35 (7.2%)	19 (7.1%)	16 (7.2%)	
Smoking Status		. ,	, ,	0.4347
Never	226 (46.4%)	117 (43.8%)	109 (49.5%)	
Former	200 (41.1%)	114 (42.7%)	86 (39.1%)	
Current	61 (12.5%)	36 (13.5%)	25 (11.4%)	
Systolic Blood Pressure (mm Hg)	134.6 ± 17.8	135.7 ± 19.0	133.3 ± 16.3	0.1375
Diastolic Blood Pressure (mm Hg)	74.7 ± 10.2	74.7 ± 10.6	74.7 ± 9.7	0.9962
Diabetes Duration (years)	10.0 ± 7.1	10.4 ± 7.5	9.6 ± 6.5	0.1880
HbA1c (%, mmol/mol)	8.1 ± 0.9	8.1 ± 0.9	8.2 ± 1.0	0.3359
	(65 ± 10)	(65 ± 10)	(66 ± 11)	
Total Cholesterol (mg/dL)	181.6 ± 40.4	182.7 ± 45.1	180.3 ± 33.8	0.5182
Low-density lipoprotein (mg/dL)	101.1 ± 32.2	102.7 ± 35.4	99.1 ± 27.9	0.2225
High-density lipoprotein in Women	48.7 ± 12.4	48.4 ± 12.4	49.1 ± 12.4	0.6878
(mg/dL)				
High-density lipoprotein in Men (mg/dL)	40.0 ± 10.3	40.4 ± 9.3	39.4 ± 11.4	0.4321
BMI	32.5 ± 5.1	32.0 ± 4.9	33.0 ± 5.3	0.0362
History of cardiovascular disease	124 (25.4%)	67 (25.1%)	57 (25.8%)	0.8600
Total Brain Volume	925.5 ± 96.2	925.4 ± 92.4	925.6 ± 100.8	0.9762
Depression (patient health questionnaire	57 (11.7%)	29 (10.9%)	28 (12.7%)	0.5359
>10)	. ,	` '	× · · /	-
Baseline DSST	54.6 ± 15.6	55.1 ± 15.8	54.0 ± 15.3	0.4054
Baseline RAVLT	7.6 ± 2.5	7.6 ± 2.5	7.6 ± 2.4	0.9479
Baseline STROOP	30.5 ± 15.6	29.9 ± 14.0	31.2 ± 17.3	0.3756
Baseline MMSE	27.7 ± 2.3	27.7 ± 2.4	27.6 ± 2.3	0.8395

Supplementary Table 2. Baseline characteristics comparing glycemia arm in sample of 488 MRI participants