

β -Cell Function and Clinical Outcome in Nondiabetic Patients With Acute Ischemic Stroke

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SUPPLEMENTAL MATERIAL

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Figure

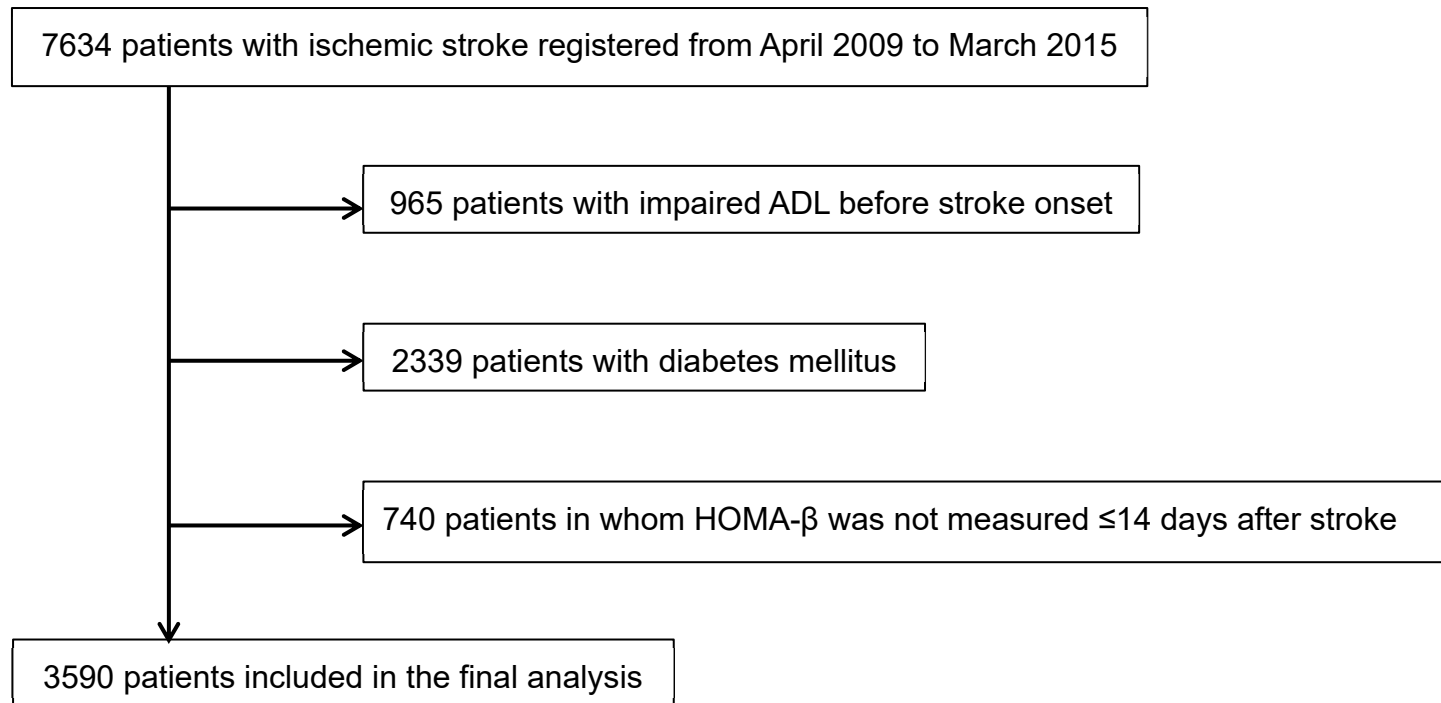
Figure I. Flow chart of patient selection

Table

Table I. HOMA- β level and risk of functional dependency (mRS, 3–5) and all-cause death (mRS, 6)

Appendix

Figure I. Flow chart of patient selection



ADL, activities of daily living; HOMA- β , homeostasis assessment model β -cell function.

Table I. HOMA-β level and risk of functional dependency (mRS, 3–5) and all-cause death (mRS, 6)

	No. of events (%)	Model 1		Model 2		Model 3	
		OR (95% CI)	<i>P</i> -value	OR (95% CI)	<i>P</i> -value	OR (95% CI)	<i>P</i> -value
Functional dependency							
(mRS, 3–5)							
Q5 (≥115.2) n=709	118 (16.6)	1.00 (reference)		1.00 (reference)		1.00 (reference)	
Q4 (81.2-115.1) n=708	136 (19.2)	1.04 (0.78-1.40)	0.78	1.69 (1.23-2.31)	0.001	1.47 (1.02-2.13)	0.04
Q3 (60.0-81.1) n=706	152 (21.5)	1.12 (0.84-1.50)	0.43	2.40 (1.73-3.33)	<0.001	1.88 (1.28-2.76)	0.001
Q2 (42.3-59.9) n=698	152 (21.8)	1.02 (0.76-1.36)	0.91	2.66 (1.89-3.74)	<0.001	1.63 (1.08-2.45)	0.02
Q1 (≤42.2) n=678	223 (32.9)	1.66 (1.26-2.19)	<0.001	6.28 (4.34-9.10)	<0.001	2.98 (1.91-4.65)	<0.001
<i>P</i> for trend		<0.001		<0.001		<0.001	
All-cause death							
(mRS, 6)							
Q5 (≥115.2) n=717	8 (1.1)	1.00 (reference)		1.00 (reference)		1.00 (reference)	
Q4 (81.2-115.1) n=719	11 (1.5)	1.21 (0.48-3.05)	0.68	2.47 (0.93-6.55)	0.07	1.68 (0.61-4.59)	0.32
Q3 (60.0-81.1) n=718	12 (1.7)	1.23 (0.50-3.04)	0.66	3.53 (1.30-9.59)	0.01	2.23 (0.80-6.24)	0.13
Q2 (42.3-59.9) n=718	20 (2.8)	1.90 (0.82-4.37)	0.13	7.08 (2.67-18.75)	<0.001	3.02 (1.08-8.40)	0.03
Q1 (≤42.2) n=718	40 (5.6)	3.47 (1.59-7.56)	0.002	21.19 (7.68-58.43)	<0.001	7.53 (2.54-22.35)	<0.001
<i>P</i> for trend		<0.001		<0.001		<0.001	

Model 1 was adjusted for age and sex. Model 2 was adjusted for the variables included in model 1 and HOMA-IR (log scale). Model 3 was adjusted for the variables included in model 2 and body mass index, dyslipidemia, hypertension, eGFR, stroke subtype, National

Institutes of Health Stroke Scale score on admission, and reperfusion therapy. eGFR indicates estimated glomerular filtration rate; HOMA- β , homeostasis assessment model β -cell function; HOMA-IR, homeostasis model assessment of insulin resistance; mRS, modified Rankin Scale; and OR, odds ratio.

Appendix

Participating Hospitals: Kyushu University Hospital, National Hospital Organization Kyushu Medical Center, National Hospital Organization Fukuoka Higashi Medical Center, Fukuoka Red Cross Hospital, St. Mary's Hospital, Nippon Steel Yawata Memorial Hospital, and Japan Labour Health and Welfare Organization Kyushu Rosai Hospital.

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