Supplementary Table 3. Univariate Cox regression analysis of factors associated with mortality in the 79 patients diagnosed with an insulinoma in Finland during 1980–2010.

	Hazard		
	Ratio	95% CI	Significance
Clinical factors			-
Age at diagnosis (n = 79)	1.05	1.02-1.08	0.001
Male (n = 24) vs. female (n = 55)	1.03	0.44-2.39	0.955
Symptom duration before diagnosis (n = 75)	1.00	1.00-1.01	0.293
Decade of diagnosis (reference: 2000s, n = 43)			
1990s (n = 17)	1.58	0.55-4.59	0.397
1980s (n = 19)	1.17	0.37-3.67	0.793
Preoperative laboratory tests			
Lowest spontaneous plasma glucose, mmol/l (n = 62)	2.03	0.85-4.82	0.111
Highest spontaneous serum insulin, mU/I (n = 49) ^a		1.01-1.20	0.037
Highest spontaneous serum C-peptide, nmol/l (n = 39)		0.99-3.04	0.053
Plasma glucose nadir in the fasting test, mmol/l (n = 64)	1.10	0.58-2.11	0.770
Corresponding serum insulin in the fasting test, mU/I (n = 55)	1.01	0.99-1.03	0.265
Corresponding serum C-peptide in the fasting test, nmol/l (n = 44)	1.04	0.40-2.72	0.939
Glycated haemoglobin, HbA1c, % (n = 31)	0.97	0.23-4.12	0.971
Treatment-related factors			
Surgery (reference: curative-intent surgery, n = 71)			
Palliative surgery (n = 2)	17.01	3.45-83.92	0.001
No surgery (n = 6)	9.86	3.60-27.00	<0.001
Surgical method (reference: enucleation, n = 31)			
Distal resection (n = 33)	1.21	0.44-3.30	0.717
Pancreatico-duodenectomy (n = 9)	2.11	0.54-8.23	0.283
Major surgical complications ^{b:} yes (n = 18) vs. no (n = 55)	3.06	1.15-8.12	0.025
Preoperative medication ^c : yes (n = 55) vs. no (n = 24)	0.97	0.42-2.24	0.934
Postoperative medication ^d yes (n = 19) vs. no (n = 53)	3.09	1.23-7.75	0.016
Postoperative diazoxide: yes (n = 8) vs. no (n = 63)		1.59-13.03	0.005
Postoperative somatostatin analogue: yes $(n = 19)$ vs. no $(n = 54)$	2.04	0.84-4.95	0.113
Tumour-related factors			
Tumour size \ge 2 cm (n = 20) vs. < 2 cm (n = 55)	2.79	1.19-6.55	0.018
Multiple (n = 5) vs. solitary tumour (n = 73)	0.67	0.09-5.05	0.700
Tumour localization: head/neck (n = 39) vs. body/tail (n = 38)		0.43-2.21	0.949
Distant metastases: yes (n = 9) vs. no (n = 70)		2.06-12.41	<0.001
Clinical TNM staging (7) (reference: Stage I, n = 58)			-
II (n = 10)	1.88	0.53-6.66	0.328
III (n = 0)			-
IV (n = 9)	5.06	1.99-12.88	0.001

^aHazard Ratio calculated for a 10mU/I rise in plasma insulin concentration, ^bClassified as grades III–V of the Clavien-Dindo classification (8, 9), ^cIncluding medical treatment of inoperable patients,

^dIncluding diazoxide (n=8), somatostatin analogue (n=19), peroral corticosteroids (n=3), interferon alpha (n=3), 5-fluorouracil-streptozotocin (n=2), streptozotocin (n=1), epirubicin (n=1), doxorubicin (n=1), and sunitinib (n=1).

CI Confidence Interval. Bold text indicates a statistically significant hazard ratio (p<0.05, Cox proportional hazards model).