

**Table 2.** Effect of glucose upon the concentration of adenine nucleotides in islets

Glucose (mmol/l)	Nil	2.8	5.6	8.3	11.1	16.7	27.8
Total (pmol/islet)	12.3±0.4	13.8±0.3	13.9±0.7	13.1±0.8	13.6±1.0	14.1±0.6	13.8±0.9
ATP (% total)	55.4±0.9	69.9±1.7	63.1±1.8	68.4±1.5	70.2±1.5	68.1±1.1	63.7±2.4
ADP (%)	26.8±0.7	20.7±1.5	21.0±1.6	17.9±1.3	20.8±1.7	18.1±0.8	21.0±1.5
AMP (%)	17.8±0.8	9.4±1.3	15.9±1.5	13.7±1.1	9.0±1.4	13.8±0.8	15.3±1.9
ATP/ADP	2.40±0.11	3.91±0.46	4.35±0.53	4.77±0.51	3.80±0.32	4.73±0.32	4.05±0.53
Adenylate charge <sup>a</sup>	0.689±0.007	0.803±0.013	0.747±0.015	0.773±0.011	0.805±0.012	0.775±0.008	0.738±0.020
(n)	(148)	(18)	(47)	(33)	(22)	(89)	(38)

<sup>a</sup> Defined as  $[ATP + 0.5 ADP]/[ATP + ADP + AMP]$ . Incubations were for 30 min at the appropriate glucose concentration