

Table 2. *Quantitative data for rough endoplasmic reticulum (RER) and glycogen deposits in chondrocytes in superficial, middle and deep zones of articular cartilage in knee joints from control rabbits and rabbits injected intramuscularly with 5 mg/kg hydrocortisone daily for 4 wk*

	Zone	Control	Hydrocortisone
Area of RER per unit volume of cytoplasm ($\mu\text{m}^2/\mu\text{m}^3$ of cytoplasm)	Superficial	3.15 ± 0.233	$1.36 \pm 0.125^*$
	Middle	2.46 ± 0.196	$1.12 \pm 0.126^*$
	Deep	1.17 ± 0.037	$0.73 \pm 0.128^*$
Area of RER per chondrocyte (μm^2)	Superficial	199 ± 35.3	$99 \pm 15.5^*$
	Middle	503 ± 74.8	$157 \pm 23.1^*$
	Deep	487 ± 58.3	$224 \pm 29.5^*$
Volume of glycogen deposits per unit volume of cytoplasm ($\mu\text{m}^3/\mu\text{m}^3$ of cytoplasm)	Superficial	0.01 ± 0.005	0.02 ± 0.006
	Middle	0.05 ± 0.009	$0.14 \pm 0.033^*$
	Deep	0.14 ± 0.029	$0.27 \pm 0.037^*$
Volume of glycogen deposits per chondrocyte (μm^3)	Superficial	1 ± 0.4	1 ± 0.4
	Middle	11 ± 2.2	20 ± 5.3
	Deep	59 ± 11.8	92 ± 22.7

Values are means \pm S.E.M. for 6 animals. * $P < 0.05$, significantly different from control value.