

Ghrelin and glucagon-like peptide-2 increase immediately following massive small bowel resection

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Changes in microscopic intestinal morphology

	n	Jejunum			Proximal ileum			Distal ileum				
		Villus height	Crypt depth	Absorptive mucosal surface per unit area	Villus height	Crypt depth	Absorptive mucosal surface per unit area	Villus height	Crypt depth	Absorptive mucosal surface per unit area		
		(μm)	(μm)	($\text{cm}^2/\text{1cm}^2$)	(μm)	(μm)	($\text{cm}^2/\text{1cm}^2$)	(μm)	(μm)	($\text{cm}^2/\text{1cm}^2$)		
Control	3	##### \pm 35.0	##### \pm 17.4	12.9 \pm 1.9	##### \pm 29.9	##### \pm 12.0	9.2 \pm 1.5	##### \pm 29.9	##### \pm 9.2	9.8 \pm 1.6		
80%SBR	day1	6	##### \pm 18.7	† ##### \pm 9.6	* 12.5 \pm 0.8	##### \pm 25.3	† ##### \pm 6.3	10.8 \pm 0.9	##### \pm 18.2	†† ##### \pm 9.5	9.9 \pm 1.0	
	day4	6	##### \pm 39.6	*† ##### \pm 6.1	*†† 17.7 \pm 1.2	##### \pm 24.1	*††† ##### \pm 6.9	14.0 \pm 1.5	* ##### \pm 24.7	*†† ##### \pm 8.1	13.4 \pm 0.8	*†
	day7	6	##### \pm 13.3	†† ##### \pm 15.8	*†† 16.1 \pm 0.9	##### \pm 22.8	*††† ##### \pm 13.2	** 14.6 \pm 0.8	*† ##### \pm 28.1	*††† ##### \pm 9.9	† 14.6 \pm 1.1	*†††
	day11	6	##### \pm 41.3	*††† ##### \pm 18.4	*††† 21.9 \pm 1.9	*††† ##### \pm 25.1	*††† ##### \pm 9.1	** 16.4 \pm 1.0	*†† ##### \pm 23.9	*††† ##### \pm 17.6	* 15.9 \pm 0.9	*†††
	day15	6	##### \pm 24.1	*††† ##### \pm 14.0	*††† 23.8 \pm 1.1	*††† ##### \pm 31.1	*††† ##### \pm 8.4	*†† 19.0 \pm 1.1	*††† ##### \pm 17.3	*††† ##### \pm 18.8	** 20.2 \pm 0.7	*†††
sham	day1	6	##### \pm 10.1	##### \pm 7.0	11.8 \pm 0.6	##### \pm 21.3	##### \pm 7.4	8.0 \pm 1.0	##### \pm 9.5	##### \pm 5.0	7.9 \pm 0.3	
	day4	6	##### \pm 31.6	##### \pm 8.2	14.0 \pm 1.9	##### \pm 8.2	##### \pm 9.7	11.1 \pm 1.4	##### \pm 11.2	##### \pm 12.1	9.7 \pm 1.1	
	day7	6	##### \pm 14.9	##### \pm 9.9	13.1 \pm 1.0	##### \pm 16.9	##### \pm 8.3	10.4 \pm 1.1	##### \pm 14.0	##### \pm 8.7	9.5 \pm 0.7	
	day11	6	##### \pm 13.7	##### \pm 8.6	14.1 \pm 0.5	##### \pm 14.6	##### \pm 11.3	** 12.6 \pm 0.8	##### \pm 8.3	##### \pm 7.0	11.4 \pm 0.3	
	day15	6	##### \pm 16.0	##### \pm 5.5	15.8 \pm 0.9	##### \pm 14.4	##### \pm 5.4	** 13.6 \pm 1.0	##### \pm 12.3	##### \pm 8.6	* 13.9 \pm 0.8	*

Data are expressed as the means \pm SE. Comparisons with controls were performed by Dunnett's test. Comparisons among the groups at similar time points were analyzed by Student's t-test. ** $P < 0.01$ and * $P < 0.05$ versus controls. †† $P < 0.01$ and † $P < 0.05$ versus the sham operation subjects. 80% SBR, 80% small bowel resection.