

1 Supplementary Table 1. Enterocyte apoptosis and mitosis in rats with SBS treated with TPN and
 2 GLP-2¹.

Treatments	Oral Reference N=8 ²	TPN Control N=5	Sustained GLP-2 N=7	Early GLP-2, d 7 group N=10	Early GLP-2, d 18 group N=6	Delayed GLP-2 N=8
<u>Crypt</u>						
Cells per crypt column, n	24 ± 0.3 ^c	24 ± 0.3 ^c	29 ± 0.3 ^a	28 ± 0.2 ^b	24 ± 0.3 ^c	28 ± 0.3 ^b
Apoptotic cells per column, n	0.06±0.01 ^{bc}	0.10±0.01 ^a	0.05± 0.01 ^c	0.02±0.01 ^c	0.09 ± 0.01 ^{ab}	0.04±0.01 ^c
Apoptotic index, % ³	0.24±0.04 ^c	0.40±0.06 ^a	0.16±0.05 ^{cd}	0.09±0.04 ^d	0.36±0.05 ^{ab}	0.14±0.04 ^{cd}
Mitotic cells per crypt column, n	0.90±0.02 ^c	0.92±0.03 ^c	1.38±0.02 ^a	1.34±0.02 ^{ab}	0.95±0.02 ^c	1.31±0.02 ^{ab}
Mitotic index, % ³	3.76±0.08 ^b	3.84±0.1 ^b	4.82±0.08 ^a	4.86±0.07 ^a	3.92±0.09 ^b	4.67±0.08 ^a
<u>Villus</u>						
Cells per villus column, n	87 ± 1 ^c	81 ± 2 ^d	107 ± 1 ^a	108 ± 1 ^a	81 ± 2 ^d	103 ± 1 ^b
Apoptotic cells per column, n	0.06±0.01 ^c	0.14±0.0 ^b	0.05±0.01 ^{cd}	0.02±0.01 ^d	0.18±0.01 ^a	0.04±0.01 ^{cd}
Apoptotic index, % ³	0.07±0.01 ^c	0.17±0.0 ^b	0.05±0.01 ^{cd}	0.02±0.01 ^d	0.22±0.01 ^a	0.04±0.01 ^{cd}
Mitotic cells per villus	0.018±0.00 5 ^a	0.016±0.0 6 ^{ab}	0.006±0.00 5 ^{ab}	0.010±0.004 ^{ab}	0.003±0.006 ^{ab}	0.003±0.00 5 ^b

column, n						
Mitotic index, % ³	0.020±0.00 5 ^a	0.020±0.0 07 ^a	0.006±0.00 6 ^{ab}	0.001±0.005 ^{ab}	0.005±0.006 ^{ab}	0.003±0.00 5 ^b

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4 ¹Values are means ± SE. Means in a row with different superscripts differ, p<0.05.

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6 ² The number of rats in each treatment group. Animals received exclusive TPN for 18 days with
7 the exception of the oral non-surgical reference group and the early GLP-2, 7-day group killed 7
8 days after resection plus TPN.

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10 ³Apoptotic index in the crypt and villus is defined as the total number of apoptotic cells
11 expressed as a percentage of the total number of cells counted in 50 well-oriented crypt or villus
12 columns, respectively. Mitotic index in the crypt and villus was calculated similarly.

13