

Table 18.8. Kinetic parameters in the human small intestine

Reference	I_S (%)	I_M (%)	T_C (h)	t_S (h)	t_{G2} (h)	t_M (h)	I_P (h)	Crypt population (cells)	CCPR (cells/ crypt/h)	Net villus influx (cells/villus/h)	Villus population (cells)	C:V ratio	Migration rate (cell positions/ per hour)	Villus transit time (h)	Maturation transit time (h)
Lipkin <i>et al.</i> (1963)			73	11	2	4							0.8		6-8
Shorter <i>et al.</i> (1964)	13		40	8									1.0		8-24
Bell <i>et al.</i> (1969)	27.4	2.1				2									
Weinstein <i>et al.</i> (1973)	38		27.5 ¹	10.6	1.4	2.2	1.0								
			33.2	12.6	1.8	1.4	1.0								
Hagemann (1979)	35	1.0	37 ²	13			0.51	344	4.8 ³	40	4246 ⁷	8.3		107 ⁹	
Wright <i>et al.</i> (1973a,b); Zucoloto <i>et al.</i> (1984)		3.2	43 ³			1.2	0.67 ⁴		10.2 ⁶	70		6.7	0.46 ⁵		15 ⁸

¹ Direct FLM measurement. ² Stage-duration calculation. ³ Metaphase arrest experiments. ⁴ From mitotic index distribution curve.
⁵ Birth rate and crypt population. ⁶ Cumulative birth rate and column count. ⁷ Villus squash and microdissection. ⁸ From cumulative
 birth rate curve. ⁹ From net villus influx and villus population.