

**Supplementary Table 1. The subclinical information collected for the subjects in this study.**

HCSR subphenotype	Cases (n=1470)		%	Controls (n=1473)	%
Subjects					
Age range ( Months )	8.37±20.50			18.61±19.75	
≤2	725		49.32%	458	31.09%
>2	745		50.68%	1015	68.91%
Clinical manifestation	DS	Non-DS			
S-HCSR	4	1029	70.27%		
L-HCSR	1	293	20.00%		
TCA	0	82	5.58%		
Total intestine	0	3	0.20%		
Enteritis_before_operation		261	17.76%		
Enteritis_after_operation		249	16.94%		