Table 2. Study population characteristics of studies evaluating the wireless motility capsule

| Author, year | Population, N | Males (%), age in years | Race | Prior Testing  N (%) | Blood sugar  Smoking status  Diabetes status  Defecatory dysfunction | Prior use of prokinetics, narcotics, antidepressants,  PPIs, laxatives |
| --- | --- | --- | --- | --- | --- | --- |
| Kuo, 2011[12](#_ENREF_12) | No comparison population, 83 | 17 (20.5), Mean: 43 | NR | GES, 44  ROM, 16  Other, 48 | Blood sugar NR  Smoking NR  Diabetes: 12 (14.6)  Defecatory: 27 | Prokinetics NR  No narcotics 3 to 7 days prior  Antidepressants NR  No PPIs  No laxatives |
| Rao, 2011[34](#_ENREF_34) | Combined (UGI, LGI), 86 | 9, Mean: 44.5 | W: 77 (89.5)  AA: 4 (4.7) | GES: 36  ROM: 50 | NR | Prokinetics: 14% UGI, 6% LGI  Narcotics: 8% UGI, 6% LGI  Antidepressants: 44% UGI, 30% LGI  PPIs: 58% UGI, 12% LGI  Laxatives: 19% UGI, 44% LGI |
| Camilleri, 2010[32](#_ENREF_32) | Chronic constipation, 158 | 20, Mean: 42.5 | W: (83)  AA: (13)  A: (2) | NR | NR | No prokinetics  No narcotics  No antidepressants  No PPIs for 7 days  No laxatives |
| Saad, 2010[50](#_ENREF_50)  [Sub-analysis of data[17](#_ENREF_17)] | Chronic constipation, 46 | 4, Mean: 44 | NR | NR | NR | No prokinetics for 48 hours  Antidepressants stable dose  No PPIs for 48 hours  No laxatives for 48 hours |
| Saad, 2010[50](#_ENREF_50)  [Sub-analysis of data[17](#_ENREF_17)] | Healthy, 64 | (47), Mean: 38 | NR | NR | NR | NR |
| Hasler, 2009[49](#_ENREF_49)  [Subset of study[17](#_ENREF_17)] | Constipation, 36 | 5, Mean: 47.4 | NR | Anal balloon expulsion (100%) | Defecatory dysfunction: 0 | No prokinetics for 2 days  No narcotics for 7 days  Antidepressants if ≥ 6 mo  No PPIs for 7 days  No laxatives for 2 days |
| Hasler, 2009[49](#_ENREF_49)  [Subset of study[17](#_ENREF_17)] | Healthy, 53 | 27, Mean: 37.2 | NR | NR | NR | No prokinetics for 2 days  No narcotics for 7 days  Antidepressants if ≥ 6 mo  No PPIs for 7 days  No laxatives |
| Rao, 2009[17](#_ENREF_17) | Constipation, 78 | 9, Mean: 45 | NR | NR | NR | No prokinetics for 48 hours  Narcotics NR  Antidepressants stable dose  No PPIs for 48 hours  No laxatives for 48 hours |
| Rao, 2009[17](#_ENREF_17) | Healthy, 87 | 47, Mean: 39 | NR | NR | NR | No prokinetics for 48 hours  Narcotics NR  Antidepressants stable dose  No PPIs for 48 hours  No laxatives for 48 hours |
| Kuo, 2008[16](#_ENREF_16) | Gastroparesis, 61 | 10, Age NR | W: 50  AA: 7  H: 4 | Scintigraphy, 1 | NR | NR |
| Kuo, 2008[16](#_ENREF_16) | Healthy, 87 | 55, Age NR | W: 69  AA: 7  A: 5  H: 4 | NA | NR | NR |
| Brun, 2011[41](#_ENREF_41) | Gastroparesis, 87 | NR | NR | GES (100) | NR | NR |
| Brun, 2011[41](#_ENREF_41) | Healthy, 61 | NR | NR | NR | NR | NR |
| Mysore, 2010[52](#_ENREF_52) | Total, 86 (UGI: 11, LGI: 45, mixed: 30) | 9, Range: 18 to 85 | NR | Barium studies: 0.3, barium enema: 0.2 | NR | NR |
| Mysore, 2010[53](#_ENREF_53)  [earlier version of study[34](#_ENREF_34)] | Total, 71  (UGI: 6, LGI: 13, mixed: 22) | 9, Range: 19 to 85 | NR | NR | NR | NR |
| Lee, 2010[42](#_ENREF_42) | Total, 50 | NR | NR | NR | NR | NR |
| Reddymasu, 2010[43](#_ENREF_43) | Gastroparesis, 41 | 8, Age NR | NR | NR | NR | NR |
| Reddymasu, 2010[43](#_ENREF_43) | Healthy, 66 | 38, Age NR | NR | NR | NR | NR |
| Paulson, 2009[51](#_ENREF_51) | Constipation, 32 | 7, Age NR | NR | NR | NR | NR |
| Paulson, 2009[51](#_ENREF_51) | Healthy, 15 | 6, Age NR | NR | NR | NR | NR |
| Lee, 2009[44](#_ENREF_44) | Total, 32 | NR | NR | NR | NR | NR |
| Rao, 2009[46](#_ENREF_46) | Constipation, 32 | 7, Mean: 49 | NR | NR | NR | NR |
| Rao, 2009[46](#_ENREF_46) | Healthy, 15 | 6, Mean: 45 | NR | NR | NR | NR |
| Rao, 2009[47](#_ENREF_47) | Constipation, 10 | 5, Mean: 74 | NR | NR | NR | NR |
| Rao, 2009[47](#_ENREF_47) | Healthy, 12 | 6, Mean: 70 | NR | NR | NR | NR |
| Lee, 2012[45](#_ENREF_45) | Gastroparesis, 43 | 8 (18), Mean: 42 | NR | GES: 43 (100) | Blood sugar NR  Smoking status NR  Diabetes: 16 (37.2)  Defecatory dysfunction NR | No prokinetics for 3 days  No narcotics for 3 days  Antideppressants NR  No PPIs for 3+ days prior  Laxatives NR |
| Rao, 2012[48](#_ENREF_48) | Constipation, 27 | 25  Median age women: 71, Median age men: 74 | NR | Colonoscopy | NR | No prokinetics for 48 hours  No PPIs for 7 days  No laxatives for 48 hours |
| Rao, 2012[48](#_ENREF_48) | Healthy, 12 | 7  Median age men: 68 years; Median age women: 70 | NR | Mayo GI Disease Questionnaire | NR | No prokinetics for 48 hours  No PPIs for 7 days  No laxatives for 48 hours |

Abbreviations: A= Asian; AA = African American; CTT = colon transit time; GES = gastric emptying scintigraphy; GET = gastric emptying time; GI = gastrointestinal; H = Hispanic; h = hours; kg = kilogram; LGI = lower gastrointestinal tract; mo = month; NR = not reported; PPI = proton pump inhibitor; ROM = radiopaque markers; UGI = upper gastrointestinal tract; W = white