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

| Author, year | Population, N | Males (%), age in years | Race | Prior TestingN (%) | Blood sugarSmoking statusDiabetes statusDefecatory 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, 44ROM, 16 Other, 48 | Blood sugar NRSmoking NRDiabetes: 12 (14.6)Defecatory: 27 | Prokinetics NRNo narcotics 3 to 7 days priorAntidepressants NRNo 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: 36ROM: 50 | NR | Prokinetics: 14% UGI, 6% LGINarcotics: 8% UGI, 6% LGIAntidepressants: 44% UGI, 30% LGIPPIs: 58% UGI, 12% LGILaxatives: 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 prokineticsNo narcoticsNo antidepressantsNo PPIs for 7 daysNo 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 hoursAntidepressants stable doseNo PPIs for 48 hoursNo 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 daysNo narcotics for 7 daysAntidepressants if ≥ 6 moNo PPIs for 7 daysNo 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 daysNo narcotics for 7 daysAntidepressants if ≥ 6 moNo PPIs for 7 daysNo laxatives |
| Rao, 2009[17](#_ENREF_17) | Constipation, 78 | 9, Mean: 45 | NR | NR | NR | No prokinetics for 48 hoursNarcotics NRAntidepressants stable dose No PPIs for 48 hoursNo laxatives for 48 hours |
| Rao, 2009[17](#_ENREF_17) | Healthy, 87 | 47, Mean: 39 | NR | NR | NR | No prokinetics for 48 hoursNarcotics NRAntidepressants stable doseNo PPIs for 48 hoursNo laxatives for 48 hours |
| Kuo, 2008[16](#_ENREF_16) | Gastroparesis, 61 | 10, Age NR | W: 50AA: 7H: 4 | Scintigraphy, 1 | NR | NR |
| Kuo, 2008[16](#_ENREF_16) | Healthy, 87 | 55, Age NR | W: 69AA: 7A: 5H: 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 NRSmoking status NRDiabetes: 16 (37.2)Defecatory dysfunction NR | No prokinetics for 3 daysNo narcotics for 3 daysAntideppressants NRNo PPIs for 3+ days priorLaxatives NR |
| Rao, 2012[48](#_ENREF_48) | Constipation, 27 | 25Median age women: 71, Median age men: 74 | NR | Colonoscopy  | NR | No prokinetics for 48 hoursNo PPIs for 7 daysNo laxatives for 48 hours |
| Rao, 2012[48](#_ENREF_48) | Healthy, 12 | 7Median age men: 68 years; Median age women: 70 | NR | Mayo GI Disease Questionnaire | NR | No prokinetics for 48 hoursNo PPIs for 7 daysNo 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