**Supplemental Digital Content 1: Efficacy of TAI in the literature**

Estimated percentage of pediatric patients with an improvement in symptoms after using TAI, as well as adherence and follow-up times, based on a literature review.

| **Study** | **% of patient with improvement in symptoms** | | | **Fail or dropout rate (%)** | **Follow-up time or duration of use (months)** |
| --- | --- | --- | --- | --- | --- |
| **Fecal incontinence** | **Constipation**  **/Soiling** | **Overall** |
| Alenezi et al. 2014 |  |  | 83.3 | 16.6 | 43.4 |
| Ausili et al. 2010 | 75 | 60 |  | 3 | 3 |
| Cazemier et al. 2007 |  |  |  | 10.4 | 81.6 |
| Choi et al. 2014 |  |  | 86.4 | 13.6 | 33 |
| Choi et al. 2013 |  |  | 81.1 | 8.5 |  |
| Chrzan et al. 2008 |  |  | 60 |  |  |
| Corbett et al. 2014 |  |  | 84 | 20.8 | 12 (2-48) |
| Fernandez Eire et al. 1998 | 97 |  |  |  | 30 |
| Kelly et al. 2016 |  |  | 100 | 0 | 6 |
| Koppen et al 2016 | 53 |  | 72 | 21 | 11 (1-36) |
| Lopez Pereira et al. 2010 | 72 |  |  |  | 12 (4-18) |
| Marte et al. 2013 |  |  | 94 | 6.3 | 22 |
| Märzheuser et al. 2016 |  | 80 |  | 5 | 36 (12-48) |
| Märzheuser et al. 2010 |  | 90 | 90 | 0 | 12 |
| Matsuno et al. 2010 | 76.9 |  |  |  | 23.5 |
| Mattsson et al. 2006 | 88 | 100 | 87.5 | 12.5 | 18 |
| Midrio et al. 2016 | 67 | 62 |  | 0 | 3 |
| Nasher et al. 2014 | 90 |  | 90 | 23 | 21.2 |
| Neel et al. 2010 | 76.9 |  |  |  | 12 |
| Ng et al. 2015 |  |  | 64 | 36 |  |
| Pacilli et al. 2014 | 83 |  | 83 | 17 | 24 |
| Shandling & Gilmour. 1987 |  |  | 100 | 4 |  |
| Vande Velde 2013 |  |  | 83 | 8 | 60 (6-144) |
| Walker and Webster 1989 | 75 |  |  |  |  |
| **MEAN**  **(MIN-MAX)** | **77.6**  **(53-97)** | **78**  **(60-100)** | **84**  **(60-100)** | **11.5**  **(0-36)** | **23**  **(1-144)** |