**Supplemental material 6**

**Adverse events affecting less than 5 %**

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|  | **PLACEBO (N = 27)** | **DIMETHYL FUMARATE (N = 27)** |
| **Adverse events affection <5%** |  |  |
| Pruritus  | 0 | 1 (3.7%) |
| Dry skin | 0 | 1 (3.7%) |
| Alopecia | 0 | 1 (3.7%) |
| Dyspepsia | 0 | 1 (3.7%) |
| Gallbladder pain | 0 | 1 (3.7%) |
| Intestinal gas | 0 | 1 (3.7%) |
| Dry mouth | 1 (3.7%) | 1 (3.7%) |
| Oral dysesthesia | 1 (3.7%) | 0 |
| Lumbar radiculopathy due to disc herniation | 1 (3.7%) | 0 |
| Arthralgia of the knee | 1 (3.7%) | 0 |
| Pain in extremity | 1 (3.7%) | 0 |
| Epistaxis | 1 (3.7%) | 0 |
| Anal hemorrhage  | 0 | 1 (3.7%) |
| Epididymitis | 0 | 1 (3.7%) |
| Gynecomastia  | 1 (3.7%) | 0 |
| Spermatic cord hemorrhage  | 1 (3.7%) | 0 |
| Uterine polypsa | 1 (3.7%) | 0 |
| Ovarian cystsa | 1 (3.7%) | 0 |
| Chronic obstructive lung diseaseb | 1 (3.7%) | 0 |
| Lung cystsb | 1 (3.7%) | 0 |
| Fatigue | 1 (3.7%) | 0 |
| Nightmares | 1 (3.7%) | 0 |
| Night sweats | 0 | 1 (3.7%) |
| Palpitations | 0 | 1 (3.7%) |
| Depression | 1 (3.7%) | 0 |
| Vertigo | 1 (3.7%) | 1 (3.7%) |

aSame participant

bSame participant