

Supplementary Table 1: SCHEDULE OF ASSESSMENTS

| | BASELINE | RUN-IN PERIOD ^b 2 – 4 weeks ^c | TREATMENT PERIOD 1 Days 1(+0) to 28 (+4) ^m | | | WASH-OUT PERIOD Days 29(+4) to 42 (+6) ^m | TREATMENT PERIOD 2 Days 43(+6) to 70 (+10) ^m | | |
|---|---------------------------|--|--|----------------|---------------------------------------|--|--|----------------|--|
| | Clinic Visit ^a | | Clinic Visit Day 1 | Home | Clinic Visit Day 28 (+4) ^m | | Clinic Visit Day 43 (+6) ^m | Home | Clinic Visit End of Study Day 70 (+ 10) ^m |
| Informed consent | X | | | | | | | | |
| Demographics | X | | | | | | | | |
| Height, weight, BMI | X | | X | | X | | X | X | |
| Medical review ^d | X | | | | | | | | |
| Blood pressure ^e | X | | | | | | | | |
| Urine pregnancy test ^f | X | | | | | | | | |
| Hypoglycemicglycemic Fear Survey II, short form | X | | | | X | | | X | |
| Pittsburgh Sleep Quality Index | X | | | | X | | | X | |
| DTSQs | X | | | | X | | | X | |
| DTSQc | | | | | X | | | X | |
| AHCL Background | X | | | | | | | | |
| Diabetes Technology (Baseline) | X | | | | | | | | |
| WHO-5 | X | | | | X | | | X | |
| Hypoglycemia Confidence Scale | X | | | | X | | | X | |
| Diabetes Technology (Final) | | | | | X | | | X | |
| AHCL Evaluation ^g | | | | | X ^g | | | X ^g | |
| Device Training | X | | X | | | | X | | |
| Food Diary | | X ^h | | X ^h | | | | X ^h | |
| Pump Data upload | | X ⁱ | X ^j | X ⁱ | X ^j | | X ^j | X ⁱ | |
| PSG | | X ^k | | X ^k | | | | X ^k | |
| Actigraphy and Sleep Diary | | X ^k | | X ^k | | | | X ^k | |
| 670G 4.0 pump use ^l | | ←-----> | | | | | | | |
| Randomisation | X | | | | | | | | |

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| AHCL set-point review phone call ^m | | | | X ^m | | | | X ^m | |
| AE collection | | X | X | X | X | X | X | X | X |
| Concomitant Medication check | X | | X | | X | | X | | X |