Additional File 2: Study Operating Procedures

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| Softer Study Procedures |
| >24 hrs to <168 hrs duration of mechanical ventilation |
| Enrolment | Inclusion criteria met, consent obtained |
| Study procedures | Baseline and demographic data |
| Biochemistry and BTM (serum PINP, CTx, Vit D, PTH, albumin, calcium, phosphate, creatinine) |
| ICU discharge (ICU discharge to 1-month) |
| Study procedure | BMD #1 |
| 1 year follow-up (1 year post-ICU discharge) |
| Study procedure | Contact participant |
| BMD #2 |
| Biochemistry and BTMs (serum PINP, CTx, vitamin D, PTH, albumin, calcium, phosphate, creatinine) |
| Medication history |
| 2 year follow-up (2 year post-ICU discharge) |
| Study procedure | Contact participant |
| BMD #3 |
| Medication history |
| Vitamin D / calcium / anti-resorptive therapy will be offered to participants in accordance with current guidelines and review of results and risk factors by an endocrinologist |

1. Abbreviations: BMD (bone mineral density), AP (anteroposterior)