1   **Figure E1. M-ADEPT Electronic Medication Monitor**

2   This figure illustrates the hardware and case of the M-ADEPT electronic medication monitor.

3   The hardware is composed of a microcontroller and a Bluetooth modem. An open-source 3D

4   modeling too, Blender (blender.org), was used to design the cases housing the electronic

5   components and the medication (constructed using a fused filament fabrication 3D printer).

6   **Figure E2. M-ADEPT System**

7   This figure diagrams the flow of information between the M-ADEPT electronic medication

8   monitors, smartphone application, Health Cloud, asthma clinician, and study participant.

9