SUPPLEMENTARY MATERIAL 2

**Patient satisfaction questionnaire**

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| Item | Assessment contents and grading standard | | | |
|  | Excellent – 3 | Good – 2 | Acceptable – 1 | Poor – 0 |
| Patient comfort | Very comfortable | Occasional irritation | Medium irritation | Bad experience wearing cast |
| Patient compliance | Strong willingness to try new cast | Minor doubt | Dubious but complied | Accepted reluctantly |
| Patient preference between 3D-printed cast and conventional plaster cast | Opted for 3D-printed cast without hesitation | Preferred a 3D-printed cast to a plaster cast | Either cast is acceptable | Insisted on using conventional cast |
| Cast odour and smell | None | Slight cast odour | Smelly cast after heavy sweating | Stinky cast |
| Skin itchiness | No itch | Rarely itchy | Frequent itch but tolerable | Severely itchy |