Supplement 1: Information about the falls

| Description                  | n (%)       |
|------------------------------|-------------|
| **Location:**                |             |
| patient’s room               | 102 (67.5)  |
| wash room                    | 24 (15.9)   |
| eating room                  | 11 (7.3)    |
| ward corridor                | 7 (4.6)     |
| therapy room                 | 4 (2.6)     |
| outside area                 | 2 (1.3)     |
| treatment room               | 1 (0.7)     |
| **Ward:**                    |             |
| normal ward                  | 151 (100)   |
| intermediate care unit       | -           |
| intensive care unit          | -           |
| **Time:**                    |             |
| morning (6:00 am to 11:59 am)| 66 (43.7)   |
| afternoon (12:00 pm to 7:59 pm)| 47 (31.1)  |
| night (8:00 pm to 5:59 am)   | 44 (29.1)   |
| **Fall condition**           |             |
| Standing up without assistance from | 93 (61.6)   |
| wheelchair                   | 38 (40.9)   |
| bed                          | 12 (12.9)   |
| toilet                       | 7 (7.5)     |
| walker                       | 6 (6.5)     |
| no information               | 30 (32.3)   |
| fall out of wheelchair       | 25 (16.6)   |
| fall out of bed              | 11 (7.3)    |
| stumbling                    | 13 (8.6)    |
| slipping                     | 2 (1.3)     |
| others                       | 6 (4.0)     |
| Use of walking aid during fall |  |
|-------------------------------|---|
| no                           | 67 (44.4) |
| yes                          | 84 (55.6) |
| wheelchair                   | 62 (73.8) |
| walker                       | 21 (25.0) |
| stick                        | 1 (11.9)  |

| Fall reason (opinion from protocol writer) |  |
|--------------------------------------------|---|
| motor agitation and/or disorientation      | 19 (12.6) |
| urge to go to toilet                       | 21 (13.9) |
| disturbance of balance                     | 16 (10.6) |
| incorrect use of the walking aid           | 15 (9.9)  |
| lack of body stability                     | 13 (8.6)  |
| wrong self-confidence                      | 10 (6.6)  |
| gait disorders                             | 8 (5.3)   |
| strength deficits                          | 5 (3.3)   |
| environmental factors (slippery/uneven floor) | 4 (2.6) |
| technical malfunction/human errors         | 3 (2.0)   |
| inattention                                | 2 (1.3)   |
| other reasons                              | 13 (8.6)  |
| no information                             | 22 (14.6) |

| Interval between fall and notice of the staff |  |
|-----------------------------------------------|---|
| <5min                                         | 82 (54.3) |
| <10min                                        | 16 (10.6) |
| <30min                                        | 17 (11.3) |
| >30min                                        | 7 (4.6)   |
| unknown                                       | 29 (19.2) |

| Position |  |
|----------|---|
| lying    | 92 (60.9) |
| sitting  | 47 (31.1) |
| Action                          | Count (%)   |
|--------------------------------|-------------|
| kneeling                       | 7 (4.6)     |
| standing                       | 5 (3.3)     |

### Standing up

| Action                          | Count (%)   |
|--------------------------------|-------------|
| lifting                         | 21 (13.9)   |
| with help                       | 114 (75.5)  |
| alone                           | 12 (7.9)    |
| no information                  | 4 (2.6)     |

### Orientation

| Quality            | Count (%)   |
|--------------------|-------------|
| no quality         | 43 (28.5)   |
| one quality        | 24 (15.9)   |
| two qualities      | 17 (11.3)   |
| three qualities    | 15 (9.9)    |
| four qualities     | 45 (29.8)   |
| no information     | 7 (4.6)     |

### Urinary incontinency

| Urinary incontinency | Count (%)   |
|----------------------|-------------|
| no                   | 55 (36.4%)  |
| yes                  | 87 (57.6%)  |
| with permanent urinary catheter | 56 (37.1%) |
| without permanent urinary catheter | 29 (19.2%) |
| no information       | 11 (7.3%)   |

### Injuries

| Injury                              | Count (%)   |
|-------------------------------------|-------------|
| no visible injuries                 | 87 (57.6%)  |
| abrasion                            | 15 (9.9%)   |
| laceration                          | 7 (4.6%)    |
| suspicion of fracture               | 1 (0.7%)    |
| others (i.e. redness, pain, bump, contusion, hematoma, pressure mark, swelling) | 26 (17.2%) |
| no information                      | 15 (9.9%)   |

### First action after the fall

| Action                        | Count (%)   |
|-------------------------------|-------------|
| no                            | 37 (24.5)   |
| Procedure                                                                 | Frequency | Percentage |
|---------------------------------------------------------------------------|-----------|------------|
| no information                                                            | 58        | 38.4       |
| yes                                                                       | 56        | 37.1       |
| checking vital signs                                                      | 31        | 55.4       |
| mobilization and positioning of the patient                               | 8         | 14.3       |
| CCT                                                                       | 5         | 8.9        |
| bed rest                                                                  | 5         | 8.9        |
| safety procedures (i.e. soft belt in wheelchair, bedrails, “Kombifix” in bed, use of “Niederflurbett”, bed positioning on the wall) | 3         | 5.4        |
| pressure bandage                                                          | 1         | 1.8        |
| analgetic drug                                                            | 1         | 1.8        |
| order of another walking aid                                              | 1         | 1.8        |
| no information                                                            | 1         | 1.8        |