Funnel plots of patient-reported outcomes (PROs) to evaluate healthcare quality: basic principles, pitfalls and considerations
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SUPPLEMENT

Table S1. Characteristics of patients receiving dialysis in Dutch dialysis centres, stratified by participation to PRO measurements.

| Characteristics                          | Total dialysis population§ | Range across dialysis centresa | Responders^ | Non-responders^ |
|------------------------------------------|-----------------------------|--------------------------------|--------------|-----------------|
|                                          | n = 2711                    | Range across dialysis centresa | n = 1388     | n = 1323        |
| Sex (male), n (%)                        | 1601 (59.1)                 | 40.0 - 85.7                     | 838 (60.4)   | 763 (57.7)      |
| Age (years), mean (SD)                   | 66.8 (14.6)                 | 54.8 - 73.2                     | 67.3 (14.0)  | 66.2 (15.1)     |
| SES, n (%)                               |                             |                                |              |                 |
| Low                                      | 1380 (51.4)                 | 20.0 - 91.2                     | 656 (47.6)   | 724 (55.3)      |
| Middle                                   | 756 (28.1)                  | 0.0 - 59.4                      | 422 (30.6)   | 334 (25.5)      |
| High                                     | 551 (20.5)                  | 0.0 - 57.1                      | 299 (21.7)   | 252 (19.2)      |
| Primary kidney disease, n (%)            |                             |                                |              |                 |
| Glomerulonephritis/sclerosis             | 295 (10.9)                  | 0.0 - 42.9                      | 154 (11.1)   | 141 (10.7)      |
| Pyelonephritis                           | 131 (4.8)                   | 0.0 - 28.6                      | 62 (4.5)     | 69 (5.2)        |
| Polycystic kidney disease                | 134 (4.9)                   | 0.0 - 14.3                      | 82 (5.9)     | 52 (3.9)        |
| Hypertension                             | 424 (15.6)                  | 0.0 - 71.4                      | 198 (14.3)   | 226 (17.1)      |
| Renal vascular disease                   | 290 (10.7)                  | 0.0 - 71.4                      | 174 (12.5)   | 116 (8.8)       |
| Diabetes mellitus                        | 575 (21.2)                  | 0.0 - 57.1                      | 261 (18.8)   | 314 (23.7)      |
| Miscellaneous                            | 490 (18.1)                  | 0.0 - 56.0                      | 270 (19.5)   | 220 (16.6)      |
| Unknown                                  | 372 (13.7)                  | 0.0 - 39.2                      | 187 (13.5)   | 185 (14.0)      |
| Dialysis modality, n (%)                 |                             |                                |              |                 |
| HD                                       | 2354 (86.8)                 | 60.0 - 100.0                    | 1242 (89.5)  | 1112 (84.1)     |
| PD                                       | 357 (13.2)                  | 0.0 - 40.0                      | 146 (10.5)   | 211 (15.9)      |
| Time on RRT (years), geometric mean (SD) | 2.2 (4.1)                   | 0.2 - 4.0                       | 2.0 (4.3)    | 2.4 (3.8)       |

§ Total dialysis population includes all patients receiving dialysis in Dutch dialysis centres that participated in the Dutch registry of PROMs in 2019, i.e. all dialysis centres for which at least one patient completed the PROMs.

^ Patients are considered responders if they participated to a PRO measurement at least once. Non-responders were invited at least once, but never participated to a PRO measurement.

a Range in percentage or mean of characteristic across n=38 dialysis centres. N=10 dialysis centres included < 5 patients and were excluded from the calculation of the range.

Abbreviations: SES, social economic status; HD, haemodialysis; PD, peritoneal dialysis; RRT, renal replacement therapy