**ONLINE RESOURCE 1: PROPENSITY SCORE MATCHING BY DESCENDING ORDER**

**Supplementary Table 1:** Monthly utilization of pouches, skin wafers, ostomy accessories, skin products, and hospital outpatient visits per patient by pouching system. Propensity score matching by descending order. Values presented are means with bootstrapped standard errors within brackets.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Unit** |  | **One-piece system** | **Two-piece system** |
|  |  |  | **Low PA** **(n = 347)** | **High PA****(n = 347)** | **P Value a** | **Low PA****(n = 37)**  | **High PA****(n = 37)** | **P Value a** |
| Wear patterns |  |  |  |  |  |  |  |  |
|  | Number of pouches |  | 39.80 (0.02) | 37.64 (0.02) | < 0.01 | 43.30 (5.57) | 35.54 (4.27) | < 0.01 |
|  | Number of skin wafers |  | NA b | NA b |  | 13.27 (1.56) | 10.74 (1.15) | < 0.01 |
|  | Number of ostomy accessories |  | 2.79 (<0.01) |  2.79 (<0.01) | < 0.01 | 2.83 (0.39) |  2.14 (0.57) | < 0.01 |
| PSCs |  |  |  |  |  |  |  |  |
|  | Number of skin products |  | 0.07 (<0.01) | 0.08 (<0.01) | 1.00 | 0.08 (0.03) | 0.05 (0.02) | < 0.01 |
|  | Hospital outpatient visits |  | 0.01 (<0.01) | 0.01 (<0.01) | 1.00 |  0.01 (<0.01) | 0.02 (0.01) | 1.00 |
|  |  |  |  |  |  |  |  |  |
| PA, patent activity; PSC, peristomal skin complications; R&D, research and developmenta P value for one-tail t-test (H0: mean is higher for low PA group than for high PA group)b One-piece systems have built-in skin wafers |

**Supplementary Table 2:** Monthly expenditure (EUR) of pouches, skin wafers, ostomy accessories, skin products, and hospital outpatient visits per patient by pouching system. Propensity score matching by descending order. Values presented are means with bootstrapped standard errors within brackets.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **Unit** |  | **One-piece system** | **Two-piece system** |
|  |  |  | **Low PA****(n = 347)**  | **High PA****(n = 347)** | **P Value a** | **Low PA****(n = 37)**  | **High PA****(n = 37)** | **P Value a** |
| Expenditure (EUR) b |  |  |  |  |  |  |  |  |
|  | Pouches |  |  169.68 (0.07) |  152.19 (0.07) | < 0.01 | 80.43 (9.16) | 58.33 (7.19) | < 0.01 |
|  | Skin wafers |  | NA c | NA c |  | 143.30 (19.56) | 66.46 (9.82) | < 0.01 |
|  | Ostomy accessories  |  | 52.01 (0.04) |  44.16 (0.03) | < 0.01 | 54.77 (7.90) | 37.25 (9.38) | < 0.01 |
|  | Skin products |  | 1.06 (<0.01) | 1.33 (<0.01) | 1.00 | 1.21 (0.49) | 0.73 (0.26) | < 0.01 |
|  | Hospital outpatient visits |  | 0.50 (<0.01) | 0.85 (<0.01) | 1.00 | 0.64 (0.40) | 1.33 (1.22) | 1.00 |
|  |  |  |  |  |  |  |  |  |
|  | **Total expenditure** |  | 223.29 (0.09) | 198.59 (0.08) | <0.01 | 280.17 (32.84) | 164.07 (22.94) | < 0.01 |
| PA, patent activity; R&D, research and development; EUR, Euroa P value for one-tail t-test (H0: mean is higher for low PA group than for high PA group)b Consumer price index adjusted to 2013 year prices in Swedenc One-piece systems have built-in skin wafers |