# **eTable 1. Self-reported douching by region of residence and household income among women participating in the Sister Study (enrolled 2003-2009)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **All**  n=36,202 | **Age at enrollment** | | | **Region of residence** | | | | **Household Income (per year)** | | |
|  | <50 years  n=9,754 (27%) | 50-60 years  n=14,995  (41%) | >60 years  n=11,453 (32%) | Northeast n=6,312 (18%) | Midwest n=10,038 (28%) | South  n=11,327 (32%) | West n=8,096 (23%) | <$50K  n=8,026 (22%) | $50K- <$100K n=15,098 (42%) | >$100K  n=13,078 (36%) | |
| **Douching history reported at enrollment** | |  |  |  |  |  |  |  |  |  |  | |
| Ever use during early adolescence (10-13); N (%) | 1,025 (3) | 363 (4) | 476 (3) | 186 (2) | 96 (2) | 266 (3) | 436 (4) | 218 (3) | 241 (3) | 473 (3) | 311 (2) | |
|  |  |  |  |  |  |  |  |  |  |  |  | |
| Frequency of use in 12 months before enrollment |  |  |  |  |  |  |  |  |  |  |  | |
| Never | 31,854 (88) | 8,350 (86) | 13,163 (88) | 10,341 (91) | 5,747 (91) | 8,931 (89) | 9,553 (85) | 7,294 (90) | 6,791 (85) | 13,194 (88) | 11,869 (91) | |
| Sometimes (<1 time/month) | 3,316 (9) | 1,115 (11) | 1,416 (9) | 785 (7) | 453 (7) | 861 (9) | 1,329 (12) | 602 (7) | 923 (12) | 1,454 (10) | 939 (7) | |
| Frequently (>1 time/month) | 867 (2) | 249 (3) | 356 (2) | 262 (2) | 88 (1) | 198 (2) | 392 (3) | 165 (2) | 283 (4) | 373 (2) | 211 (2) | |
| Ever usea; N (%) | 4,967 (14) | 1,615 (17) | 2,154 (14) | 1,198 (11) | 616 (10) | 1,270 (13) | 2,049 (18) | 933 (12) | 1,363 (17) | 2,197 (15) | 1,407 (11) | |
| **Douching history reported on fourth detailed follow-up questionnaire** | |  |  |  |  |  |  |  |  |  |  | |
| Ever use; N (%) | 18,281 (51) | 4,462 (46) | 8,040 (54) | 5,779 (51) | 2,705 (43) | 4,799 (48) | 6,576 (58) | 4,007 (50) | 4,490 (57) | 7,868 (52) | 5,923 (45) | |
| Use in teens; N (%) | 5,283 (15) | 1,781 (18) | 2,408 (16) | 1,094 (10) | 748 (12) | 1,321 (13) | 2,013 (18) | 1,150 (14) | 1,320 (17) | 2,238 (15) | 1,725 (13) | |
| Use in 20s; N (%) | 13,883 (39) | 3,386 (35) | 6,234 (42) | 4,263 (38) | 2,001 (32) | 3,579 (36) | 5,167 (46) | 3,047 (38) | 3,396 (43) | 6,000 (40) | 4,487 (34) | |
| Use in 30s; N (%) | 9,566 (27) | 2,029 (21) | 4,148 (38) | 3,389 (30) | 1,330 (21) | 2,421 (24) | 3,660 (33) | 2,039 (25) | 2,576 (33) | 4,188 (28) | 2,802 (22) | |
| Use in 40s; N (%) | 5,749 (16) | 1,143 (12) | 2,416 (16) | 2,190 (19) | 781 (12) | 1,406 (14) | 2,306 (21) | 1,169 (15) | 1,674 (21) | 2,504 (17) | 1,571 (12) | |
| Use in 50sb; N (%) | 3,165 (9) | 599 (7) | 1,312 (9) | 1,254 (11) | 411 (7) | 723 (7) | 1,336 (12) | 655 (8) | 968 (12) | 1,355 (9) | 842 (7) | |
| Use in 60sb; N (%) | 1,517 (5) | 29 (1) | 769 (5) | 719 (6) | 180 (4) | 339 (4) | 652 (7) | 330 (5) | 510 (8) | 607 (5) | 400 (4) | |
| Use in 70sb; N (%) | 565 (4) | -- | 74 (3) | 491 (4) | 61 (3) | 133 (4) | 215 (5) | 153 (5) | 224 (5) | 216 (4) | 125 (3) | |
| **Among ever uses (as reported at follow-up); n=18,275** | |  |  |  |  |  |  |  |  |  |  | |
| Age at first use; Mean (SD) | 22.4 (7.0) | 21.1 (6.1) | 22.1 (6.5) | 24.0 (8.0) | 22.9 (7.6) | 22.6 (6.8) | 22.1 (6.9) | 22.4 (6.9) | 22.5 (7.3) | 22.4 (6.9) | 22.5 (7.0) | |
| Age at last use; Mean (SD) | 38.2 (14.8) | 34.0 (12.3) | 37.6 (14.3) | 42.3 (16.2) | 37.2 (14.6) | 37.4 (14.3) | 39.5 (15.2) | 37.5 (15.0) | 41.0 (15.7) | 38.1 (14.6) | 36.2 (14.2) | |
| Douching history relative to menopause; N (%) |  |  |  |  |  |  |  |  |  |  |  | |
| Premenopausal only | 14,406 (80) | 3,865 (87) | 6,384 (80) | 4,157 (73) | 2,215 (83) | 3,882 (82) | 4,995 (76) | 3,211 (81) | 3,256 (74) | 6,248 (80) | 4,902 (83) | |
| Pre and Postmenopausal | 3,513 (19) | 557 (13) | 1,531 (19) | 1,425 (25) | 442 (16) | 818 (17) | 1,481 (23) | 723 (18) | 1,102 (25) | 1,483 (19) | 928 (16) | |
| Postmenopausal only | 166 (1) | 15 (0) | 56 (1) | 95 (2) | 24 (1) | 38 (0) | 61 (1) | 38 (1) | 53 (1) | 59 (1) | 54 (1) | |
| Frequent user (> 1 time / month) during 20s | 3,246 (24) | 471 (14) | 1,329 (22) | 1,446 (36) | 379 (20) | 784 (23) | 1,354 (27) | 708 (24) | 1,058 (33) | 1,341 (23) | 847 (19) | |
| Reason for douching in 20sc |  |  |  |  |  |  |  |  |  |  |  | |
| After menstrual period | 4,073 (29) | 1,197 (36) | 1,766 (29) | 1,015 (25) | 521 (27) | 989 (29) | 1,650 (33) | 798 (27) | 1,039 (32) | 1,762 (30) | 1,177 (27) | |
| To feel clean | 7,044 (51) | 1,852 (56) | 3,271 (54) | 1,799 (45) | 998 (51) | 1,820 (52) | 2,603 (52) | 1,463 (49) | 1,581 (49) | 3,036 (52) | 2,305 (53) | |
| To reduce vaginal odor | 4,499 (32) | 998 (30) | 2,215 (36) | 1,208 (30) | 590 (30) | 1,179 (34) | 1,633 (33) | 1,003 (34) | 1,036 (32) | 1,952 (34) | 1,433 (33) | |
| Before sex | 692 (5) | 173 (5) | 342 (6) | 166 (4) | 98 (5) | 160 (5) | 244 (5) | 177 (6) | 173 (5) | 289 (5) | 219 (5) | |
| After sex | 4,130 (30) | 667 (20) | 1,655 (27) | 1,694 (42) | 451 (23) | 937 (27) | 1,632 (33) | 981 (33) | 1,154 (36) | 1,673 (29) | 1,189 (27) | |
| To treat vaginal symptoms | 2,194 (16) | 518 (16) | 1,051 (17) | 585 (14) | 341 (18) | 529 (15) | 740 (15) | 532 (18) | 487 (15) | 927 (16) | 740 (17) | |
| Other reasons | 309 (2) | 69 (2) | 112 (2) | 114 (3) | 53 (3) | 66 (2) | 99 (2) | 72 (2) | 82 (3) | 122 (2) | 91 (2) | |
| Type of douche used in 20sc |  |  |  |  |  |  |  |  |  |  |  | |
| Water | 2,119 (15) | 277 (8) | 829 (14) | 967 (24) | 252 (13) | 517 (15) | 736 (15) | 565 (19) | 584 (18) | 826 (14) | 663 (15) | |
| Water and vinegar, homemade | 2,818 (20) | 382 (11) | 1,250 (21) | 1,113 (28) | 325 (17) | 697 (20) | 1,004 (20) | 715 (24) | 797 (25) | 1,146 (20) | 802 (18) | |
| Water and vinegar, commercial | 5,257 (38) | 1,909 (57) | 2,375 (39) | 887 (22) | 780 (40) | 1,321 (38) | 2,059 (41) | 970 (33) | 1,140 (35) | 2,361 (41) | 1,670 (38) | |
| Commercial scented | 4,137 (30) | 1,111 (33) | 2,060 (34) | 914 (23) | 564 (29) | 1,089 (31) | 1,524 (31) | 894 (30) | 852 (26) | 1,761 (30) | 1,472 (34) | |
| Commercial medicated | 1,131 (8) | 299 (9) | 579 (10) | 239 (6) | 169 (9) | 260 (8) | 473 (9) | 210 (7) | 266 (8) | 489 (8) | 362 (8) | |
| Other solution | 363 (3) | 52 (2) | 140 (2) | 158 (4) | 66 (3) | 91 (3) | 100 (2) | 91 (3) | 93 (3) | 149 (3) | 108 (2) | |

Participants were excluded if they withdrew from the study (n=4), did not complete the enrollment personal care product questionnaire (n=979), had pre-enrollment breast cancer or ambiguous breast cancer diagnosis or timing of diagnosis (n=77), did not complete the fourth follow-up questionnaire (n=9,727) or were missing responses for the talc and douching questions on detailed follow-up 4 (n=3,895). Regions of residence are defined by the US census (https://www2.census.gov/geo/pdfs/maps-data/maps/reference/us\_regdiv.pdf)

aEver users reported using in last 12 months or during adolescence

Missing data: 825 women reported a race and ethnicity other than non-Hispanic White, non-Hispanic Black or Hispanic/Latina. 5 women were missing race and ethnicity data; 7 women missing attained education

Missing data at enrollment: douching as adolescent=359, douching last 12 months=165, ever douching=155

Missing data at detailed follow-up 4: ever douching=220, douching as teen=287, douching in 20s=281, douching in 30s=286, douching in 40s=292, douching in 50s=295 (716 ineligible), douching in 60s=269 (7,611 ineligible), douching in 70s=180 (22,192 ineligible), age at first douche=121, age at last douche=198, frequency of douching in 20s (among users)=450

bAmong those who had reached that age group

cCould select more than one option; percentages add up to more than 100%

**eTable 2. Self-reported genital talc use by region of residence and household income among women participating in the Sister Study (enrolled 2003-2009)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **All**  n=36,202 | **Age at Enrollment** | | | **Region of residence** | | | | **Household income** | | |
|  | <50 years  n=9,754 (27%) | 50-60 years  n=14,995  (41%) | >60 years  n=11,453 (32%) | Northeast n=6,312 (18%) | Midwest n=10,038 (28%) | South  n=11,327 (32%) | West n=8,096 (23%) | <$50K  n=8,026 (22%) | $50K- <$100K n=15,098 (42%) | >$100K  n=13,078 (36%) |
| **History of genital talc use reported at enrollment** | |  |  |  |  |  |  |  |  |  |  |
| Ever use during early adolescence (10-13); N (%) | 6,670 (19) | 1,562 (16) | 3,029 (21) | 2,079 (19) | 1,314 (22) | 1,699 (18) | 2,385 (22) | 1,218 (16) | 1,484 (19) | 2,868 (20) | 2,318 (18) |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency of use in 12 months before enrollment |  |  |  |  |  |  |  |  |  |  |  |
| Never | 31,001 (86) | 8,303 (85) | 12,878 (86) | 9,820 (86) | 5,301 (84) | 8,664 (87) | 9,473 (84) | 7,199 (89) | 6,632 (83) | 12,855 (85) | 11,514 (88) |
| Sometimes (<1 time/month) | 2,234 (6) | 683 (7) | 938 (6) | 613 (5) | 424 (7) | 621 (6) | 741 (7) | 427 (5) | 557 (7) | 968 (6) | 709 (5) |
| Frequently (>1 time/month) | 2,826 (8) | 742 (8) | 1,121 (8) | 960 (8) | 563 (9) | 714 (7) | 1,067 (9) | 442 (5) | 802 (10) | 1,218 (8) | 806 (6) |
| Ever usea; N (%) | 9,748 (27) | 2,433 (25) | 4,202 (28) | 3,113 (27) | 1,895 (30) | 2,575 (26) | 3,405 (30) | 1,778 (22) | 2,337 (29) | 4,195 (28) | 3,216 (25) |
| **History of genital talc use reported on fourth detailed follow-up questionnaire** | |  |  |  |  |  |  |  |  |  |  |
| Ever use; N (%) | 11,409 (32) | 2,975 (31) | 5,005 (34) | 3,429 (30) | 2,120 (34) | 3,062 (31) | 3,885 (34) | 2,234 (28) | 2,713 (34) | 4,890 (33) | 3,806 (29) |
| Use in teens; N (%) | 6,438 (18) | 1,892 (19) | 2,963 (20) | 1,583 (14) | 1,301 (21) | 1,639 (16) | 2,250 (20) | 1,202 (15) | 1,452 (18) | 2,715 (18) | 2,271 (17) |
| Use in 20s; N (%) | 8,002 (22) | 2,044 (21) | 3,620 (24) | 2,338 (21) | 1,524 (24) | 2,094 (21) | 2,763 (25) | 1,558 (19) | 1,880 (24) | 3,469 (23) | 2,653 (20) |
| Use in 30s; N (%) | 6,416 (18) | 1,480 (15) | 2,823 (19) | 2,113 (19) | 1,201 (19) | 1,703 (17) | 2,211 (20) | 1,241 (15) | 1,621 (20) | 2,777 (19) | 2,018 (16) |
| Use in 40s; N (%) | 4,771 (13) | 1,084 (11) | 1,986 (13) | 1,701 (15) | 934 (15) | 1,266 (13) | 1,618 (14) | 907 (11) | 1,269 (16) | 2,099 (14) | 1,403 (11) |
| Use in 50sb; N (%) | 3,541 (10) | 749 (8) | 1,452 (10) | 1,340 (12) | 699 (11) | 923 (9) | 1,206 (11) | 685 (9) | 1,014 (13) | 1,527 (10) | 1,000 (8) |
| Use in 60sb; N (%) | 2,224 (8) | 42 (2) | 1,078 (7) | 1,104 (10) | 431 (9) | 586 (8) | 738 (8) | 445 (7) | 707 (10) | 950 (8) | 567 (6) |
| Use in 70sb; N (%) | 1,123 (8) | -- | 169 (7) | 954 (8) | 207 (9) | 283 (8) | 371 (8) | 252 (8) | 432 (10) | 467 (8) | 224 (6) |
| **Among ever uses (as reported at follow-up); n=11,409** | |  |  |  |  |  |  |  |  |  |  |
| Age at first use; Mean (SD) | 21.0 (11.2) | 19.0 (8.7) | 20.2 (9.9) | 23.8 (14.0) | 20.4 (11.2) | 21.5 (11.4) | 20.6 (11.0) | 21.3 (11.2) | 21.9 (11.7) | 21.1 (11.1) | 20.6 (11.1) |
| Age at first use; Mean (SD) | 43.9 (18.5) | 37.3 (14.3) | 42.2 (17.1) | 52.0 (20.5) | 44.5 (18.6) | 43.6 (18.3) | 43.8 (18.3) | 43.6 (18.9) | 47.0 (19.2) | 45.2 (18.3) | 42.1 (18.2) |
| Genital talc use relative to menopause; N (%) |  |  |  |  |  |  |  |  |  |  |  |
| Premenopausal only | 7,164 (65) | 2,218 (77) | 3,264 (67) | 1,682 (51) | 1,294 (63) | 1,950 (66) | 2,415 (64) | 1,440 (66) | 1,481 (56) | 3,043 (64) | 2,640 (71) |
| Pre and Postmenopausal | 3,513 (32) | 648 (22) | 1,476 (30) | 1,389 (42) | 705 (34) | 898 (30) | 1,220 (32) | 664 (30) | 1,022 (39) | 1,539 (32) | 952 (26) |
| Postmenopausal only | 410 (4) | 32 (1) | 146 (3) | 232 (7) | 66 (3) | 119 (4) | 137 (4) | 80 (4) | 125 (5) | 179 (4) | 106 (3) |
| Frequent user (> 1 time / month) during 20s | 4,782 (62) | 1,153 (58) | 2,147 (62) | 1,482 (67) | 952 (65) | 1,179 (58) | 1,691 (64) | 921 (61) | 1,207 (67) | 2,043 (61) | 1,532 (60) |
| Reason for genital talc use during 20sc |  |  |  |  |  |  |  |  |  |  |  |
| After menstrual period | 951 (12) | 189 (9) | 436 (12) | 326 (14) | 163 (11) | 230 (11) | 362 (13) | 193 (12) | 273 (15) | 424 (12) | 254 (10) |
| To feel clean | 3,685 (46) | 970 (47) | 1,666 (46) | 1,049 (45) | 713 (47) | 946 (45) | 1,341 (49) | 655 (42) | 886 (47) | 1,624 (47) | 1,175 (44) |
| To reduce vaginal odor | 2,677 (33) | 612 (30) | 1,246 (34) | 819 (35) | 460 (30) | 744 (36) | 908 (33) | 551 (35) | 650 (35) | 1,169 (34) | 858 (32) |
| Before sex | 203 (3) | 32 (2) | 91 (3) | 80 (3) | 42 (3) | 50 (2) | 66 (2) | 43 (3) | 60 (3) | 89 (3) | 54 (2) |
| After sex | 320 (4) | 45 (2) | 136 (4) | 139 (6) | 57 (4) | 73 (3) | 105 (4) | 84 (5) | 94 (5) | 144 (4) | 82 (3) |
| To prevent dampness and chafing | 4,985 (62) | 1,400 (68) | 2,273 (63) | 1,312 (56) | 986 (65) | 1,289 (62) | 1,680 (61) | 999 (64) | 1,158 (62) | 2,185 (63) | 1,642 (62) |
| Other reasons | 327 (4) | 78 (4) | 144 (4) | 105 (4) | 64 (4) | 76 (4) | 117 (4) | 68 (4) | 85 (5) | 123 (4) | 119 (4) |

Participants were excluded if they withdrew from the study (n=4), did not complete the enrollment personal care product questionnaire (n=979), had pre-enrollment breast cancer or ambiguous breast cancer diagnosis or timing of diagnosis (n=77), did not complete the fourth follow-up questionnaire (n=9,727) or were missing responses for the talc and douching questions on detailed follow-up 4 (n=3,895). Regions of residence are defined by the US census (https://www2.census.gov/geo/pdfs/maps-data/maps/reference/us\_regdiv.pdf)

aEver users reported using in last 12 months or during adolescence

Missing data: 825 women reported a race and ethnicity other than non-Hispanic White, non-Hispanic Black or Hispanic/Latina. 5 women were missing race and ethnicity data; 7 women missing attained education

Missing data at enrollment: genital talc use as adolescent=1,394, genital talc use last 12 months=139, ever genital talc use=136

Missing data detailed at follow-up 4: ever genital talc use=182, genital talc use as teen=247, genital talc use in 20s=248, genital talc use in 30s=248, genital talc use in 40s=252, genital talc use in 50s=249 (716 ineligible), genital talc use in 60s=222 (7,611 ineligible), genital talc use in 70s=124 (22,191 ineligible), age at first genital talc use=316, age at last genital talc use=332, frequency of genital talc use in 20s (among users)=301

bAmong those who had reached that age group

cCould select more than one option; percentages add up to more than 100%

**eTable 3. Comparison of participants included in the reliability analysis versus those excluded**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Included**  (n=36,202) | **Did not complete DFU4** (n=9,727) | **Did not complete talc/douching questions on DFU4**  (n=3,895) |
| **Age at enrollment (years);** Mean (SD) | 55.6 (8.6) | 56.8 (9.9) | 53.7 (9.1) |
| **Body mass index (kg/m2), enrollment;** Mean (SD) | 27.4 (6.0) | 28.8 (6.8) | 29.0 (6.7) |
| **Follow-up time (years);** Mean (SD) | 13.0 (1.4) | 8.3 (3.8) | 13.0 (1.5) |
| **Race and ethnicity;** N (%) |  |  |  |
| Hispanic/Latina | 1,293 (4) | 653 (7) | 440 (11) |
| Non-Hispanic Black | 2,271 (6) | 1,147 (12) | 763 (20) |
| Non-Hispanic White | 31,808 (88) | 7,577 (78) | 2,560 (66) |
| **Attained education, enrollment;** N (%) |  |  |  |
| >High school | 4,899 (14) | 2,114 (22) | 656 (17) |
| Some college or technical school | 11,480 (32) | 3,907 (40) | 1,400 (36) |
| Bachelor’s degree | 10,305 (28) | 2,116 (22) | 1,006 (26) |
| Graduate degree | 9,511 (26) | 1,589 (16) | 832 (21) |
| **Household income at enrolment (per year);** N (%) |  |  |  |
| <$50K | 8,026 (22) | 3,576 (37) | 1,191 (31) |
| $50K - <$100K | 15,098 (42) | 3,759 (39) | 1,523 (39) |
| >$100K | 13,078 (36) | 2,392 (25) | 1,181 (30) |
| **Region of Residence;** N (%) |  |  |  |
| Northeast (n=6,312) | 6312 (18) | 1,485 (16) | 564 (15) |
| Midwest (n=10,038) | 10,038 (28) | 2,504 (26) | 943 (25) |
| South (n=11,327) | 11,327 (32) | 3,502 (37) | 1,501 (41) |
| West (n=8,096) | 8,096 (23) | 2,010 (21) | 693 (19) |
| **Used douche, ages 10-13;** N (%) | 1,025 (3) | 355 (4) | 176 (5) |
| **Used douche, 12 months prior to enrollment;** N (%) | 4,183 (12) | 1,751 (18) | 771 (20) |
| **Used genital talc, ages 10-13;** N (%) | 6,670 (19) | 1,761 (19) | 829 (22) |
| **Used genital talc, 12 months prior to enrollment;** N (%) | 5,062 (14) | 1,508 (16) | 611 (16) |
| **Incident breast cancer;** N (%) | 2,906 (8) | 890 (9) | 430 (11) |
| **Incident ovarian cancer;** N (%) | 125 (0) | 136 (2) | 15 (0) |
| **Incident uterine cancer;** N (%) | 278 (1) | 90 (1) | 34 (1) |
| **Deaths;** N (%) | 89 (0) | 2,309 (24) | 11 (0) |

Abbreviation: DFU4 = Fourth detailed follow-up

Cut-off for reporting of incident cancers or mortality was September 30, 2019

Missing: Body mass index (9 included, 4 no DFU4, 2 no talc/douching), race and ethnicity (5 included, 4 no DFU4, 3 no talc/douching), education (7 included, 1 no DFU4, 1 no talc/douching), adolescent douching (359 included, 150 no DFU4, 62 no talc/douching), douching in last 12 months (165 included, 74 no DFU4, 30 no talc/douching), genital talc use in adolescence (1,394 included, 410 no DFU4, 136 no talc/douching), genital talc use in last 12 months (139 included, 55 no DFU4, 24 no talc/douching)

**eTable 4.** Douching and genital talc use in the vanguard group of the Sister Study cohort (n=1,535)

|  |  |
| --- | --- |
|  | **N (%)** |
| **Ever Douched** | 1,142 (75%) |
| Ever douched, teen yearsa | 357 (32%) |
| Ever douched, 12 months prior to enrollmenta | 242 (21%) |
| Used at other times onlya | 597 (55%) |
|  |  |
| **Ever Used Genital Talc** | 666 (44%) |
| Ever used genital talc, teen yearsa | 485 (75%) |
| Ever used genital talc, 12 months prior to enrollmenta | 273 (41%) |
| Used at other times onlya | 75 (12%) |

aAmong ever users

**eTable 5.** Ever versus never douche and genital talc use in the vanguard group of the Sister Study cohort (n=1,535), as reported at enrollment (2003-2004) versus on the fourth detailed follow-up questionnaire (2018-2019)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Douching Use, as reported at enrollment** | | | **Genital Talc Use, as reported at enrollment** | | |
| **Never user**  n=388  (25%) | | **Ever User** n=1,142  (75%) | **Never User**  n=858  (56%) | **Ever User** n=666  (44%) | |
| **Use, as reported at follow-up** | | | |  | | |
| Never user; *N (% of total)* | 352 (23) | 332 (22) | | 723 (48) | | 294 (19) |
| Ever User; *N (% of total)* | 30 (2) | 799 (53) | | 134 (9) | | 370 (24) |
| Consistencya (95% CI) | 0.76 (0.74, 0.78) | | | 0.72 (0.69, 0.74) | | |
| Kappa (95% CI) | 0.50 (0.46, 0.54) | | | 0.41 (0.37, 0.46) | | |
| Sensitivity (95% CI) | 0.71 (0.68, 0.73) | | | 0.56 (0.52, 0.60) | | |
| Specificity (95% CI) | 0.92 (0.89, 0.95) | | | 0.84 (0.82, 0.87) | | |
| Positive Predictive Value (95% CI) | 0.96 (0.95, 0.98) | | | 0.73 (0.69, 0.77) | | |

Missing: 21 women missing enrollment douching status, 14 missing enrollment genital talc status.

aConsistency defined as the proportion of women providing the same response at follow-up versus at enrollment

**eTable 6.** Agreement of self-report ever use of douche or genital talc on enrollment questionnaire (2003-2009) versus the fourth detailed follow-up questionnaire (2018-2019), n=36,202

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Douching** | | | **Genital Talc Use** | | |
|  | % used in 12 months prior to enrollment (enrollment / follow-up) | Consistencya  (95% CI) | k (95% CI) | % used in 12 months prior to enrollment (enrollment / follow-up) | Consistencya  (95% CI) | k (95% CI) |
| **Overall** | 14% / 16% | 0.95 (0.95, 0.95) | 0.80 (0.79, 0.81) | 27% / 21% | 0.86 (0.86, 0.87) | 0.62 (0.61, 0.63) |
| **Cancer status** |  |  |  |  |  |  |
| No ovarian, uterine or breast cancer (n=32,944)b | 14% / 16% | 0.95 (0.95, 0.95) | 0.80 (0.79, 0.81) | 27% / 21% | 0.86 (0.86, 0.87) | 0.62 (0.61, 0.63) |
| Ovarian cancer (n=125)b | 15% / 19% | 0.95 (0.91, 0.99) | 0.83 (0.70, 0.96) | 28% / 33% | 0.85 (0.78, 0.91) | 0.66 (0.52, 0.80) |
| Uterine cancer (n=278)b | 12% / 15% | 0.93 (0.89, 0.95) | 0.68 (0.55, 0.81) | 32% / 27% | 0.86 (0.82, 0.90) | 0.67 (0.57, 0.76) |
| Breast cancer (n=2,906)b | 14% / 15% | 0.95 (0.94, 0.96) | 0.80 (0.76, 0.83) | 26% / 20% | 0.86 (0.85, 0.87) | 0.61 (0.58, 0.65) |
| **Age at enrollment** |  |  |  |  |  |  |
| <50 (n=9,754) | 17% / 20% | 0.93 (0.93, 0.94) | 0.78 (0.76, 0.80) | 25% / 20% | 0.87 (0.87, 0.88) | 0.64 (0.62, 0.66) |
| 50-60 (n=14,995) | 14% / 16% | 0.95 (0.94, 0.95) | 0.80 (0.78, 0.81) | 28% / 22% | 0.87 (0.86, 0.87) | 0.64 (0.63, 0.66) |
| 60+ (n=11,453) | 10% / 12% | 0.96 (0.96, 0.97) | 0.81 (0.80, 0.83) | 27% / 19% | 0.85 (0.84, 0.85) | 0.58 (0.56, 0.60) |
| **Self-reported race and ethnicity** |  |  |  |  |  |  |
| Non-Hispanic White (n=31,808) | 12% / 14% | 0.95 (0.95, 0.96) | 0.79 (0.78, 0.80) | 26% / 20% | 0.86 (0.86, 0.87) | 0.62 (0.61, 0.63) |
| Non-Hispanic Black (n=2,271) | 39% / 44% | 0.91 (0.90, 0.92) | 0.81 (0.79, 0.84) | 45% / 33% | 0.82 (0.80, 0.84) | 0.63 (0.59, 0.66) |
| Hispanic/Latina (n=1,293) | 19% / 19% | 0.90 (0.89, 0.92) | 0.69 (0.64, 0.74) | 24% / 19% | 0.85 (0.84, 0.87) | 0.57 (0.52, 0.63) |
| **Attained education** |  |  |  |  |  |  |
| <High school (n=4,899) | 18% / 21% | 0.93 (0.93, 0.94) | 0.79 (0.77, 0.81) | 28% / 22% | 0.85 (0.84, 0.86) | 0.60 (0.57, 0.62) |
| Some college (n=11,480) | 17% / 20% | 0.95 (0.94, 0.95) | 0.82 (0.81, 0.84) | 29% / 23% | 0.85 (0.84, 0.86) | 0.62 (0.60, 0.63) |
| >Bachelor’s Degree (n=19,816) | 11% / 13% | 0.95 (0.95, 0.96) | 0.78 (0.76, 0.79) | 26% / 19% | 0.87 (0.87, 0.88) | 0.63 (0.62, 0.64) |
| **Body mass index (kg/m2)** |  |  |  |  |  |  |
| <25 (Normal weight) (n=14,924) | 11% / 13% | 0.95 (0.95, 0.96) | 0.78 (0.77, 0.80) | 22% / 16% | 0.89 (0.88, 0.89) | 0.64 (0.62, 0.65) |
| >25- <30 (Overweight) (n=11,390) | 14% / 16% | 0.95 (0.94, 0.95) | 0.79 (0.78, 0.81) | 27% / 20% | 0.86 (0.85, 0.86) | 0.60 (0.59, 0.62) |
| >30 (Obese) (n=9,879) | 17% / 20% | 0.94 (0.94, 0.95) | 0.81 (0.80, 0.83) | 35% / 28% | 0.83 (0.82, 0.84) | 0.60 (0.59, 0.62) |
| **Region of Residencec** |  |  |  |  |  |  |
| Northeast (n=6,312) | 10% / 12% | 0.96 (0.96, 0.96) | 0.79 (0.77, 0.82) | 30% / 23% | 0.85 (0.84, 0.85) | 0.60 (0.58, 0.62) |
| Midwest (n=10,038) | 13% / 14% | 0.95 (0.95, 0.96) | 0.80 (0.78, 0.81) | 26% / 20% | 0.87 (0.86, 0.88) | 0.63 (0.61, 0.65) |
| South (n=11,327) | 18% / 21% | 0.94 (0.94, 0.95) | 0.81 (0.80, 0.83) | 30% / 23% | 0.85 (0.84, 0.86) | 0.62 (0.60, 0.63) |
| West (n=8,096) | 12% / 14% | 0.95 (0.94, 0.95) | 0.77 (0.75, 0.79) | 22% / 17% | 0.88 (0.88, 0.89) | 0.63 (0.61, 0.65) |
| **Household income (per year)** |  |  |  |  |  |  |
| <$50K (n=8,026) | 17% / 19% | 0.94 (0.94, 0.95) | 0.80 (0.79, 0.82) | 29% / 23% | 0.84 (0.84, 0.85) | 0.59 (0.57, 0.61) |
| $50K - <$100K (n=15,098) | 15% / 17% | 0.95 (0.94, 0.95) | 0.79 (0.78, 0.81) | 28% / 22% | 0.86 (0.86, 0.87) | 0.63 (0.61, 0.64) |
| >$100K (n=13,078) | 11% / 12% | 0.96 (0.95, 0.96) | 0.79 (0.78, 0.81) | 25% / 18% | 0.87 (0.87, 0.88) | 0.63 (0.61, 0.65) |

aConsistency defined as the proportion of women providing the same response at follow-up versus at enrollment

b29 women had both breast and uterine cancer, 17 had both breast and ovarian cancer, 3 and both ovarian and uterine and 1 had all 3 cancer types

cRegions of residence defined by the US census (https://www2.census.gov/geo/pdfs/maps-data/maps/reference/us\_regdiv.pdf)