

Appendix 3 (as supplied by the authors): Supplemental Tables 1-12

Supplemental Table 1. Prednisolone-equivalent dose conversion factors for glucocorticoids

| Glucocorticoid | 10mg prednisolone-equivalent (in mg) |
|--------------------|--------------------------------------|
| Betamethasone | 1.5 |
| Budesonide | 1.09 |
| Cortisone | 50 |
| Deflazacort | 12 |
| Dexamethasone | 1.5 |
| Hydrocortisone | 40 |
| Methylprednisolone | 8 |
| Prednisone | 10 |
| Triamcinolone | 8 |

Supplemental Table 2. List of International Classification of Diseases version 10 codes used to identify infection

| Infection variable | Definition group | ICD 10 code |
|-----------------------|------------------|--|
| All-cause | B | H10.0, H10.4, H10.5, H10.8, H10.9, H13.2, H16.1, H16.2, H19.3, H60.0, H60.2, H60.3, H60.8, H60.9, H62.0, H62.4, H65.0, H65.2-H65.4, H65.9, H66.0-H66.4, H66.9, H67.1, H67.8, H70.1, H70.8, H70.9, H73.1, H75.0, I52.1, J06.0, J06.8, J06.9, J22.X, J31.0-J31.2, J44.0, J85.1, J85.2, J18.8, J18.9, J32.0-J32.4, J32.8, J32.9, J35.0, K12.2, K36.X, K37.X, K51.5, K52. 3, K57.1, K57.3, K57.5, K57.9, K80.0-K80.5, K81.0, K81.1, K81.9, K83.0, H60.1, L03.0-L03.3, L03.8, L03.9, L98.3, M46.2, M86.0, M86.3-M86.6, M86.9, M86.8, N73.1, N73.2, N73.4, R05.X, R07.0 |
| | A | A41.0, A41.8, A41.9, A87.2, B43.1, B43.2, D73.3, E32.1, G06.0-G06.2, G07X, H10.2, H10.3, H60.0, H60.5, H65.0, H65.1, H66.0, H70.0, H73.0, J00.X, J01.0-J01.4, J01.8, J01.9, J02.0, J02.8, J02.9, J03.0, J03.8, J03.9, J06.0, J16.8, J17.8, J18.0-J18.2, J34.0, J36X, J39.0, J39.1, J85.0, J85.3, K04.6, K04.7, K11.3, K57.0, G03.0-G03.2, G03.8, G03.9, K35.2, K35.3, K35.8, K57.2, K57.4, K57.8, K61.0-K61.4, K63.0, K65.0, K65.8, K65.9, K75.0, K81.0, L02.0-L02.4, L02.8, L02.9, L05.0, L05.9, M65.0, M71.0, M86.0-M86.2, N15.1, N29.1, N35.1, N39.0, N34.0, N41.2, N45.0, N45.9, N73.0, N73.3, N73.5, N75.1, N76.4, O75.3, P78.1, R57.2 |
| All-cause & bacterial | A | A00.0, A00.1, A00.9, A01.0-A01.4, A02.0-A02.2, A02.8, A02.9, A03.0-A03.3, A03.8, A03.9, A04.0-A04.9, A15.0-A15.9, A16.0-A16.9, A17.0, A17.1, A17.8, A17.9, A18.0-A18.8, A19.0-A19.2, A19.8, A19.9, A20.0-A20.3, A20.7-A20.9, A21.0-A21.3, A21.7-A21.9, A22.0-A22.2, A22.7-A22.9, A23.0-A23.3, A23.8, A23.9, A24.0-A24.4, A25.0, A25.9, A26.7-A26.9, A27.0, A27.8, A27.9, A28.8, A28.9, A30.0-A30.5, A30.8, A30.9, A31.0, A31.1, A31.8, A31.9, A32.0, A32.1, A32.7-A32.9, A33.X, A34.X, A35.X, A36.0-A36.3, A36.8, A36.9, A39.0, A39.2-A39.5, A39.8, A39.9, A40.0-A40.3, A40.8, A40.9, A41.0-A41.5, A42.0-A42.2, A42.7-A42.9, A54.6, A54.8, A54.9, A46.X, A48.0, A48.8, A49.0-A49.3, A49.8, A49.9, A54.0, A54.2-A54.4, A56.4, A57.X, A66.0-A66.4, A66.6-A66.9, A67.0-A67.3, A67.9, A68.0, A68.1, A68.9, A69.1, A70.X, A71.0, A71.1, A71.9, A74.0, A74.8, A74.9, A75.0-A75.3, A75.9, A77.0, A79.0, A79.8, A79.9, B47.1, B92.X, B94.0, B95.0-B95.8, B96.0-B96.2, B96.4, B96.5, B96.7, B96.8, G00.0-G00.3, G00.8, G00.9, G01.X, G04.2, G05.0, I32.0, I41.0, I52.0, J13X, J15.0- J15.9, J16.0, J17.0, J20.0, J20.2, J65X, K23.0, K67.0-K67.3, K93.0, L00.X, M00.0-M00.2, M00.8, M01.0, M01.1, M01.3, M02.3, M03.0, M03.1, M49.0-M49.2, M63.0, M68.0, M73.0, N33.0, N74.0, N74.1, O98.0, P36.0-P36.5, P36.8, P36.9, P37.2, R76.1 |
| | B | A09.9, A37.0, A37.1, A37.8, A37.9, A54.5, A74.0, H67.0, J02.0, J03.0 |

| | | |
|-----------------------|---|--|
| All-cause & viral | A | A08.0-A08.4, A80.9, A81.0, A81.8, A81.9, A82.0, A82.1, A82.9, A83.0, A83.6, A83.8, A83.9, A84.0, A84.8, A84.9, A85.0-A85.2, A85.8, A86.X, A87.0, A87.1, A87.8, A87.9, A88.0, A88.8, A89.X, A90.X, A91.X, A92.0, A92.3, A92.8, A92.9, A93.0, A93.8, A94.X, A95.0, A95.1, A95.9, A96.0, A96.8, A96.9, A98.0, A98.3, A98.4, A98.8, A99.X, B00.0, B00.1, B00.3-B00.5, B00.7-B00.9, B01.0, B01.1, B01.8, B01.9, B02.1, B02.0, B02.2, B02.3, B02.7-B02.9, B03.X, B05.0, B05.1, B05.3, B05.4, B05.8, B05.9, B06.0, B26.1, B06.8, B06.9, B07.X, B08.0, B08.4, B08.8, B09.X, B25.0, B25.2, B25.8, B25.9, B26.0, B26.2, B26.3, B26.8, B26.9, B27.0, B27.1, B27.8, B27.9, B30.3, B33.0, B33.2-B33.4, B33.8, B34.0-B34.4, B34.8, B34.9, B91.X, B94.1, B96.3, B97.0-B97.8, G02.0, G05.1, G14.X, G73.1, G93.3, I41.1, J10.0, J11.0, J12.2, B01.2, B05.2, G53.0, J12.0, J12.1, J12.3, J12.8, J12.9, J14X, J17.1, J20.1, M01.4, M01.5, M89.6, O26.4, O35.3, O98.4, O98.5 |
| | B | B00.2, B08.5, B16.0-B16.2, B16.9, B17.0, B17.1, B17.8, B17.9, B18.0-B18.2, B18.8, B18.9, B19.0, B19.9, B25.1, B30.0-B30.2, B94.2, H19.1, H62.1 |
| | C | A49.2, B30.8, B30.9, J09.X, J10.0, J10.1, J10.8, J11.0, J11.1, J11.8, J20.4 |
| All-cause & parasitic | A | A06.2, A06.4-A06.6, A07.0, A07.8, A07.9, B50.0, B50.8, B50.9, B51.0, B51.8, B51.9, B52.0, B52.8, B52.9, B53.0, B53.1, B53.8, B54.X, B55.0-B55.2, B55.9, B56.0, B56.1, G02.8, B56.9, B58.0-B58.3, B58.8, B58.9, B60.0, B60.8, B64.X, B65.0-B65.2, B65.8, B65.9, B67.8, B67.9, B71.0, B71.8, B71.9, B76.1, B81.0, B81.4, B81.8, B82.0, B82.9, B83.0, B83.8, B83.9, B85.0-B85.2, B85.4, B87.0-B87.4, B87.8, B87.9, B88.0, B89.X, B94.0, B94.8, B94.9, D47.5, G05.2, G53.1, G63.0, G73.4, G94.0, H03.0, H06.1, H22.0, H32.0, H94.0, I32.1, I41.2, I42.3, I43.0, I68.1, I98.1, J17.3, J20.3, J20.5-J20.7, J21.0, J21.1, K77.0, L92.2, M01, M35.4, M49.3, M63.1, N08.0, N16.0, N22.0, N77.0, N77.1, O98.6, O98.8, O989 |
| | B | H13.0, H13.1, H19.2, H62.3 |
| All-cause & fungal | A | B35.9, B36.8, B37.0-B37.9, B38.0-B38.4, B38.7-B38.9, B41.0, B41.7-B41.9, B44.0-B44.2, B44.7-B44.9, B45.0-B45.3, B45.7-B45.9, B46.8, B48.7, B48.8, G02.1, J17.2, M01.6 |
| | B | H62.2 |

Note: Group A refers to diagnostic codes included regardless of antibiotic prescription; Group B refers to diagnostic codes for which prescribed medication within 2 months was required; Group C refers to diagnostic codes for which prescribed antiviral drug was required (as shown in Figure 2 of the manuscript).

Supplemental Table 3. Number of patients vaccinated at baseline* and during follow-up per age group

| Vaccine type | All patients | <60 years | 60-74 years | ≥75 years |
|--|---------------|--------------|---------------|---------------|
| <i>At baseline</i> | | | | |
| Influenza | 25,640 (64.2) | 922 (21.5) | 9,802 (61.2) | 14,916 (76.0) |
| Varicella zoster | 254 (0.6) | - | 90 (0.6) | 164 (0.8) |
| Pneumococcal | 19,515 (48.9) | 487 (11.4) | 6,937 (43.3) | 12,091 (61.6) |
| <i>At baseline or during follow-up</i> | | | | |
| Influenza | 33,904 (89.3) | 2,444 (57.1) | 13,935 (86.9) | 17,525 (89.3) |
| Varicella zoster | 2,295 (5.8) | 86 (2.0) | 1,499 (9.4) | 710 (3.6) |
| Pneumococcal | 29,660 (74.3) | 1,540 (36.0) | 12,488 (77.9) | 15,632 (79.6) |

*Vaccination at baseline was defined as a recorded vaccination at any time before the start of follow-up for varicella zoster and pneumococcal vaccination and as a recorded vaccination within 1 year prior to the start of follow-up for vaccination against influenza. Vaccination against varicella zoster was introduced in the UK in 2013

Supplemental Table 4. Prescribed anti-inflammatory and disease-modifying anti-rheumatic medication

| Type of medication | |
|--|---------------------|
| Drugs prescribed in last year before follow-up start, | |
| Oral glucocorticoids | 7,487 (18.7) |
| Inhaled or nasal glucocorticoids | 7,676 (19.2) |
| Intramuscular glucocorticoids | 848 (2.1) |
| Rectal glucocorticoids | 946 (2.4) |
| Topical glucocorticoids | 1,124 (2.8) |
| NSAIDS | 23,935 (59.9) |
| Oral glucocorticoids at the end of follow-up | |
| Ever use since study entry*, n (%) | 34,499 (86.4) |
| Current use, n (%) | 19,679 (49.3) |
| Current daily dose** in mg, median [IQR] | 5.0 [3.0, 10.0] |
| Cumulative dose in last year**, median [IQR] | 1,597.5 [780-2,552] |
| Total cumulative dose **, median [IQR] | 3,452 [1,607-6,465] |
| DMARDs prescribed during follow-up[#], n (%) | |
| Methotrexate | 3,809 (9.5) |
| Azathioprine | 1,317 (3.3) |
| Azathioprine | 478 (1.2) |
| Sulfasalazine | 345 (0.9) |
| Hydroxychloroquine or chloroquine | 328 (0.8) |
| Tacrolimus | 62 (0.2) |
| Leflunomide | 51 (0.1) |
| Other | 63 (1.2) |

*Ever use defined since 1 year prior to the start of follow-up; **Excluding patients without prescribed oral glucocorticoids; [#] Patients might have received more than one type of DMARD. The 'other' category includes: auranofin, ciclosporin, cyclophosphamide, mycophenolate mofetil, penicillamine, auothiomalate and injectable gold product.

Note: DMARDs, disease-modifying antirheumatic drugs; IQR, interquartile range; NSAIDs, non-steroidal anti-inflammatory drugs; Follow-up defined as for the analysis of all-cause infection

Supplemental Table 5. Observation time and incidence rates of infections in the cohort

| | Infection type | | | | |
|--|---------------------|------------------|------------------|------------------|------------------|
| | All-cause | Bacterial | Viral | Parasitic | Fungal |
| Incidence number of infections, n (%) | 22,234 (100) | 5,234 (23.5) | 5,344 (24.0) | 1,120 (5.0) | 5,416 (24.4) |
| Total person-years of follow-up | 138,412 | 213,947 | 206,713 | 225,042 | 205,960 |
| Time at risk (years), median [IQR] | 2.4 [0.9-5.0] | 4.3 [1.9-7.9] | 5.2 [1.8-7.7] | 4.7 [2.1-8.4] | 4.1 [1.8-7.7] |
| Incidence per 1,000 person-years (95% CI) | | | | | |
| Overall | 160.7 (159.3-162.2) | 24.5 (23.9-25.0) | 25.9 (25.3-26.5) | 5.0 (4.6-5.3) | 26.4 (25.6-27.0) |
| Current daily dose, mg | | | | | |
| Non-use | 112.3 (110.7-113.8) | 16.8 (16.2-17.4) | 17.7 (17.1-18.4) | 3.3 (3.1- 3.6) | 18.1 (17.4-18.7) |
| >0-4.9 | 214.0 (209.7-218.3) | 37.2 (35.1-39.4) | 37.4 (35.3-39.7) | 6.6 (5.7- 7.6) | 38.9 (36.8-41.2) |
| 5.0-14.9 | 254.5 (250.5-258.4) | 39.1 (37.3-41.1) | 43.5 (41.5-45.6) | 8.5 (7.6- 9.5) | 43.0 (41.0-45.1) |
| 15.0-24.9 | 350.1 (338.5-361.3) | 52.3 (47.1-58.1) | 54.9 (49.5-60.7) | 13.0 (10.3-16.1) | 57.9 (52.3-63.8) |
| ≥25 | 304.4 (291.7-316.6) | 51.8 (45.7-58.6) | 47.3 (41.1-54.0) | 11.6 (8.6-15.2) | 51.0 (44.6-58.1) |
| Cumulative dose in last year, mg | | | | | |
| Non-use | 101.0 (99.4-102.6) | 15.1 (14.5-15.8) | 15.8 (15.1-16.5) | 2.8 (2.5- 3.1) | 16.0 (15.4-16.7) |
| >0-959.9 | 199.4 (195.3-203.4) | 29.5 (27.8-31.4) | 32.0 (30.2-34.0) | 6.2 (5.4- 7.1) | 33.2 (31.4-35.2) |
| 960-3,054.9 | 250.1 (246.6-253.7) | 40.8 (39.1-42.6) | 43.1 (41.3-45.0) | 8.8 (7.9- 9.7) | 44.7 (42.8-46.6) |
| ≥3,055 | 312.6 (305.5-319.7) | 55.9 (52.1-60.0) | 58.1 (54.2-62.3) | 12.0 (10.2-14.1) | 54.5 (50.6-58.5) |
| Total cumulative dose, mg | | | | | |
| Non-use | 201.4 (196.6-206.2) | 29.5 (27.3-31.8) | 34.5 (32.1-37.0) | 7.2 (6.1-8.5) | 35.3 (32.9-37.8) |
| >0-959.9 | 223.3 (218.1-228.4) | 30.9 (28.7-33.3) | 36.3 (33.9-38.8) | 7.6 (6.5-8.8) | 36.6 (34.1-39.1) |
| 960-3,054.9 | 219.4 (215.8-223.1) | 32.9 (31.2-34.6) | 34.6 (32.9-36.4) | 7.1 (6.4-8.0) | 39.2 (37.4-41.1) |
| 3,055-7,299.9 | 155.7 (153.2-158.3) | 24.9 (23.7-26.2) | 27.5 (26.2-28.8) | 5.1 (4.5-5.7) | 27.2 (25.9-28.5) |
| ≥7,300 | 91.0 (89.0- 93.0) | 17.1 (16.2-17.9) | 15.2 (14.4-16.1) | 2.7 (2.3-3.0) | 14.1 (13.3-14.9) |

Note: CI, confidence interval; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage.

Supplemental Table 6. Distribution of patients according to the type of infections diagnosed

| Type of infection | N (%) |
|---|--------------|
| <i>All-cause infection</i> | 22,234 |
| Chest infection | 3,148 (14.2) |
| Pneumonia | 2,916 (13.1) |
| Conjunctivitis | 1,905 (8.6) |
| H. Zoster | 1,642 (7.4) |
| Abscess | 1,619 (7.3) |
| Sinusitis | 1,235 (5.6) |
| Gastroenteritis | 1,171 (5.3) |
| Candidiasis | 854 (3.8) |
| Urinary tract infection | 840 (3.8) |
| Septicaemia | 701 (3.2) |
| Infections without location specified | 4,643 (20.9) |
| Other infections | 1,176 (5.3) |
| Bacterial infection | 5,234 |
| Pneumonia | 2,077 (39.7) |
| Chest infection with antibiotics | 1,789 (34.2) |
| Gastroenteritis | 617 (11.8) |
| Respiratory infections with antibiotics | 192 (3.7) |
| Cellulitis | 174 (3.3) |
| Urinary tract infection | 145 (2.8) |
| Otitis | 103 (2.0) |
| Tuberculosis | 50 (1.0) |
| Sepsis | 22 (0.4) |
| Meningitis | 15 (0.3) |
| Other bacterial infection | 42 (1.0) |
| Viral infection | 5,344 |
| Pneumonia | 734 (13.7) |
| Gastroenteritis | 668 (12.5) |
| Influenza | 200 (3.7) |
| Sepsis | 183 (3.4) |
| H. Zoster | 11 (0.2) |

| | |
|--|--------------|
| Meningitis | 8 (0.2) |
| Bacterial pathogen isolated without location specified | 3,523 (65.9) |
| Other | 17 (0.4) |
| <i>Parasitic infection</i> | 1,120 |
| Pneumonia | 152 (13.6) |
| Gastroenteritis | 83 (7.4) |
| Sepsis | 31 (2.8) |
| Parasitic pathogen isolated without location specified | 854 (76.3) |
| <i>Fungal infection</i> | |
| Candidiasis | 1,314 (24.3) |
| Pneumonia | 486 (9.0) |
| Gastroenteritis | 330 (6.1) |
| Sepsis | 134 (2.5) |
| Chest infection | 21 (0.4) |
| Fungal pathogen isolated without location specified | 3,109 (57.4) |
| Other | 22 (0.4) |

Note: Overall, 68% of patients with all-cause infection (primary outcome) were treated with an antibiotic in primary care or hospitalised within 7 days (71% of bacterial infections); 34% of patients with viral infections and 27% of those with fungal infections were hospitalised within 7 days.

Supplemental Table 7. Kaplan-Meier estimates of infections per level of current daily and cumulative oral glucocorticoid prednisolone-equivalent dose in men and women

| | Men | | | | | Women | | | | |
|---|---------------------|---------------------|---------------------|-------------------|---------------------|---------------------|---------------------|---------------------|------------------|---------------------|
| | All-cause | Bacterial | Viral | Parasitic | Fungal | All-cause | Bacterial | Viral | Parasitic | Fungal |
| Incident infections, n (%) | 6527 | 1652 | 1388 | 333 | 1579 | 1,5707 | 3,582 | 3,956 | 787 | 3,837 |
| Cumulative probability (95% CI) at 1 year | 16.7 (16.0-17.4) | 3.3 (3.0-3.6) | 3.2 (2.9-3.6) | 0.9 (0.7-1.0) | 3.4 (3.1-3.7) | 19.0 (18.5-19.5) | 3.1 (2.9-3.3) | 4.0 (3.8-4.2) | 0.9 (0.8-1.1) | 4.1 (3.9-4.4) |
| Current daily dose, mg | | | | | | | | | | |
| nonuse | 10.8 (9.9-11.7) | 2.1 (1.7-2.5) | 2.0 (1.6-2.4) | 0.7 (0.4-0.9) | 2.0 (1.6-2.4) | 13.8 (13.1-14.5) | 2.1 (1.8-2.3) | 2.6 (2.3-2.9) | 0.6 (0.4-0.7) | 2.6 (2.3-2.9) |
| >0-4.9 | 16.0 (14.5-17.4) | 3.5 (2.8-4.2) | 3.1 (2.4-3.8) | 0.8 (0.4-1.1) | 3.4 (2.6-4.1) | 18.9 (17.8-19.9) | 3.4 (2.9-3.9) | 3.8 (3.3-4.3) | 0.8 (0.6-1.1) | 4.3 (3.8-4.9) |
| 5.0-14.9 | 19.9 (18.7-21.2) | 3.6 (3.0-4.2) | 4.0 (3.4-4.7) | 1.0 (0.7-1.3) | 4.1 (3.5-4.7) | 21.6 (20.7-22.5) | 3.4 (3.0-3.8) | 4.9 (4.4-5.4) | 1.2 (1.0-1.4) | 5.0 (4.5-5.5) |
| 15.0-24.9 | 29.7 (26.4-32.8) | 7.5 (5.5-9.4) | 6.5 (4.7-8.4) | 1.3 (0.5-2.2) | 7.1 (5.2-8.9) | 30.7 (28.4-32.9) | 5.8 (4.6-7.0) | 7.6 (6.2-8.9) | 2.3 (1.5-3.0) | 7.5 (6.1-8.8) |
| ≥25.0 | 32.8 (27.7-37.5) | 7.8 (4.7-10.7) | 5.8 (3.2-8.4) | 2.3 (0.6-4.0) | 8.2 (5.1-11.2) | 37.3 (33.7-40.8) | 8.0 (5.9-10.1) | 9.0 (6.7-11.2) | 1.9 (0.8-3.0) | 8.7 (6.4-10.9) |
| Cumulative dose in last year, mg | | | | | | | | | | |
| nonuse | 4.2 (3.8-4.6) | 0.7 (0.6-0.9) | 0.7 (0.5-0.9) | 0.2 (0.1-0.3) | 0.6 (0.5-0.8) | 5.5 (5.1-5.8) | 0.7 (0.6-0.8) | 0.8 (0.7-1.0) | 0.2 (0.1-0.2) | 0.9 (0.8-1.1) |
| >0-959.9 | 36.7 (33.8-39.4) | 9.2 (7.0-11.3) | 11.8 (9.4-14.2) | 2.8 (1.5-4.1) | 13.1 (10.6-15.5) | 39.9 (38.0-41.7) | 12.4 (10.7-14.0) | 14.8 (13.0-16.5) | 4.0 (2.9-5.0) | 12.9 (11.2-14.5) |
| 960.0-3,054.9 | 46.6 (44.3-48.9) | 17.6 (15.3-20.0) | 14.6 (12.3-16.7) | 4.2 (2.8-5.4) | 16.1 (13.8-18.3) | 50.3 (48.7-51.8) | 16.9 (15.2-18.5) | 20.4 (18.6-22.1) | 6.4 (5.2-7.5) | 22.3 (20.5-24.0) |
| ≥3,055.0 | 55.1 (50.8-59.1) | 22.4 (17.2-27.3) | 23.1 (18.0-27.8) | 9.0 (5.1-12.8) | 21.7 (16.5-26.5) | 62.5 (59.7-65.1) | 23.7 (19.8-27.4) | 27.0 (23.3-30.6) | 7.3 (5.0-9.6) | 25.7 (21.9-29.4) |
| Total cumulative dose, mg | | | | | | | | | | |
| nonuse | 19.0 (17.1-20.8) | 3.9 (2.9-4.8) | 3.9 (3.0-4.9) | 1.4 (0.8-2.0) | 3.7 (2.8-4.6) | 21.2 (20.0-22.4) | 3.4 (2.8-3.9) | 4.0 (3.4-4.6) | 0.9 (0.6-1.2) | 4.6 (4.0-5.2) |
| >0-959.9 | 28.2 (25.9-30.5) | 5.1 (3.9-6.3) | 6.0 (4.7-7.2) | 1.4 (0.7-2.0) | 7.1 (5.7-8.5) | 29.3 (27.8-30.8) | 5.5 (4.7-6.2) | 7.3 (6.4-8.2) | 1.7 (1.2-2.1) | 6.4 (5.5-7.2) |
| 960.0-3,054.9 | 20.2 (19.0-21.4) | 4.5 (3.8-5.1) | 3.6 (3.0-4.2) | 0.9 (0.6-1.2) | 4.1 (3.5-4.8) | 22.7 (21.8-23.5) | 3.8 (3.4-4.2) | 5.0 (4.5-5.4) | 1.3 (1.0-1.5) | 5.7 (5.2-6.2) |
| 3,055.0-7,299.9 | 8.9 (8.1-9.8) | 1.7 (1.3-2.0) | 2.0 (1.5-2.4) | 0.5 (0.3-0.7) | 1.7 (1.3-2.1) | 10.8 (10.2-11.5) | 1.8 (1.5-2.1) | 2.2 (1.9-2.5) | 0.5 (0.4-0.7) | 1.9 (1.6-2.2) |
| ≥7,300.0 | 6.5 (4.0-9.0) | 1.2 (0.1-2.2) | 1.6 (0.4-2.8) | 0.9 (0.0-1.8) | 0.9 (0.0-1.8) | 7.8 (6.1-9.5) | 0.4 (0.1-0.8) | 1.1 (0.5-1.7) | 0.3 (0.0-0.5) | 1.6 (0.9-2.3) |
| Cumulative probability (95% CI) at 5 years | 52.2 | 12.3 | 11.3 | 2.7 | 13.4 | 55.8 | 11.3 | 13.9 | 2.8 | 13.8 |

| | | | | | | | | | | |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|
| | (51.2-53.3) | (11.6-13.0) | (10.7-12.0) | (2.4-3.1) | (12.7-14.1) | (55.1-56.4) | (10.8-11.7) | (13.4-14.3) | (2.6-3.0) | (13.4-14.3) |
| Current daily dose, mg | | | | | | | | | | |
| nonuse | 38.3 (36.9-39.6) | 8.1 (7.4- 8.8) | 7.3 (6.6- 7.9) | 1.9 (1.5- 2.2) | 9.0 (8.3- 9.8) | 43.8 (42.9-44.8) | 7.3 (6.8- 7.8) | 9.5 (9.0-10.1) | 1.8 (1.6-2.1) | 9.5 (9.0-10.1) |
| >0-4.9 | 66.3 (63.6-68.9) | 20.1 (17.7-22.5) | 16.8 (14.6-19.0) | 3.3 (2.3- 4.4) | 20.0 (17.5-22.3) | 64.5 (62.8-66.1) | 15.7 (14.4-17.0) | 18.0 (16.5-19.4) | 3.3 (2.6-3.9) | 18.0 (16.6-19.4) |
| 5.0-14.9 | 69.4 (67.2-71.4) | 17.6 (15.6-19.5) | 18.4 (16.4-20.4) | 4.3 (3.3- 5.3) | 19.4 (17.4-21.4) | 70.0 (68.7-71.3) | 17.6 (16.4-18.8) | 21.1 (19.8-22.4) | 4.6 (3.9-5.3) | 20.9 (19.6-22.2) |
| 15.0-24.9 | 79.4 (74.9-83.2) | 27.7 (21.8-33.0) | 23.9 (18.5-29.0) | 6.6 (3.4- 9.7) | 31.5 (25.2-37.2) | 77.2 (74.1-79.9) | 22.1 (18.7-25.3) | 24.9 (21.5-28.2) | 6.4 (4.5-8.2) | 26.2 (22.6-29.6) |
| ≥25.0 | 81.4 (74.8-86.3) | 31.5 (22.5-39.5) | 27.5 (18.9-35.2) | 9.0 (3.5-14.2) | 31.0 (23.0-38.1) | 81.5 (77.6-84.8) | 27.2 (22.1-31.9) | 27.5 (22.3-32.4) | 6.4 (3.6-9.2) | 24.8 (20.0-29.3) |
| Cumulative dose in last year, mg | | | | | | | | | | |
| nonuse | 30.0 (28.7-31.3) | 5.5 (4.9- 6.1) | 4.9 (4.4- 5.4) | 1.3 (1.0- 1.6) | 6.0 (5.4- 6.6) | 33.7 (32.8-34.6) | 4.7 (4.3- 5.0) | 6.3 (5.9- 6.7) | 1.1 (0.9- 1.2) | 6.4 (6.0- 6.8) |
| >0-959.9 | 72.9 (69.9-75.6) | 25.9 (22.3-29.5) | 24.4 (20.9-27.8) | 5.2 (3.3- 6.9) | 28.6 (25.1-32.0) | 75.7 (73.9-77.3) | 23.2 (21.0-25.3) | 26.9 (24.6-29.1) | 5.6 (4.5- 6.7) | 25.9 (23.7-28.0) |
| 960.0-3,054.9 | 84.7 (82.7-86.5) | 32.4 (29.0-35.7) | 31.0 (27.5-34.3) | 7.8 (5.7- 9.9) | 36.5 (32.9-40.0) | 84.3 (83.1-85.5) | 33.4 (31.1-35.6) | 36.6 (34.3-38.9) | 9.7 (8.2-11.3) | 37.1 (34.8-39.3) |
| ≥3,055.0 | 93.2 (89.8-95.5) | 52.8 (43.1-60.9) | 45.3 (35.0-54.0) | 10.2 (6.1-14.0) | 44.7 (35.0-52.9) | 92.4 (90.5-94.0) | 49.4 (43.6-54.5) | 48.9 (43.5-53.8) | 14.7 (10.1-9.0) | 45.6 (40.3-50.4) |
| Total cumulative dose, mg | | | | | | | | | | |
| nonuse | 54.8 (51.8-57.7) | 13.5 (11.3-15.6) | 11.1 (9.1-13.0) | 3.4 (2.3-4.5) | 14.4 (12.1-16.7) | 60.2 (58.3-62.0) | 11.9 (10.6-13.2) | 15.6 (14.1-17.0) | 3.3 (2.6-4.1) | 16.0 (14.6-17.5) |
| >0-959.9 | 59.3 (56.2-62.2) | 15.6 (13.1-18.0) | 14.1 (11.8-16.3) | 3.9 (2.6-5.2) | 17.6 (15.2-20.0) | 63.7 (61.7-65.5) | 13.7 (12.3-15.1) | 18.4 (16.8-20.0) | 3.9 (3.1-4.6) | 17.1 (15.6-18.7) |
| 960.0-3,054.9 | 57.7 (55.6-59.6) | 15.5 (13.9-17.1) | 13.2 (11.7-14.7) | 3.4 (2.6-4.2) | 16.7 (15.0-18.3) | 63.6 (62.2-64.9) | 14.1 (13.0-15.1) | 17.4 (16.3-18.6) | 3.7 (3.1-4.2) | 18.7 (17.5-19.8) |
| 3,055.0-7,299.9 | 52.9 (51.0-54.7) | 11.8 (10.6-13.0) | 12.4 (11.2-13.7) | 3.0 (2.4-3.7) | 13.8 (12.4-15.1) | 56.3 (55.0-57.5) | 11.9 (11.0-12.7) | 14.3 (13.4-15.2) | 2.6 (2.2-3.1) | 13.8 (12.9-14.7) |
| ≥7,300.0 | 35.9 (33.6-38.2) | 7.8 (6.6- 8.9) | 6.7 (5.6- 7.8) | 1.0 (0.6-1.4) | 7.5 (6.4- 8.7) | 36.1 (34.6-37.6) | 7.0 (6.3- 7.7) | 7.7 (7.0- 8.4) | 1.6 (1.2-1.9) | 7.4 (6.7- 8.1) |
| Cumulative probability (95% CI) at 10 years | 75.1 (73.9-76.2) | 22.7 (21.5-23.8) | 18.3 (17.3-19.4) | 4.2 (3.7-4.8) | 20.9 (19.8-22.0) | 77.7 (76.9-78.4) | 20.4 (19.6-21.1) | 22.4 (21.7-23.1) | 4.2 (3.9-4.6) | 21.4 (20.7-22.1) |
| Current daily dose, mg | | | | | | | | | | |
| nonuse | 65.4 (63.6-67.1) | 16.7 (15.4-18.0) | 13.7 (12.6-14.9) | 3.2 (2.7- 3.8) | 16.1 (14.9-17.3) | 69.2 (68.0-70.2) | 15.2 (14.4-16.0) | 16.9 (16.0-17.7) | 2.9 (2.6- 3.2) | 16.3 (15.5-17.1) |
| >0-4.9 | 84.9 (81.9-87.4) | 33.9 (29.8-37.8) | 23.7 (20.2-27.0) | 4.5 (3.1- 5.9) | 29.5 (25.7-33.1) | 84.2 (82.4-85.8) | 27.3 (25.1-29.5) | 29.4 (27.1-31.6) | 5.6 (4.5- 6.7) | 28.2 (26.0-30.4) |
| 5.0-14.9 | 88.1 (85.9-90.0) | 32.2 (28.6-35.6) | 27.5 (24.4-30.5) | 6.8 (4.9- 8.6) | 27.8 (24.6-30.8) | 88.9 (87.6-90.1) | 30.0 (27.9-32.0) | 32.3 (30.1-34.3) | 6.8 (5.7- 7.9) | 30.1 (28.1-32.0) |

| | | | | | | | | | | |
|---|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|
| 15.0-24.9 | 92.7 (88.1-95.6) | 41.6 (32.1-49.9) | 40.3 (29.9-49.2) | 9.9 (3.2-16.0) | 37.5 (29.6-44.6) | 92.2 (89.1-94.4) | 33.5 (28.0-38.5) | 37.3 (31.6-42.6) | 9.6 (6.3-12.7) | 35.5 (30.4-40.3) |
| ≥25.0 | 89.7 (82.8-93.8) | 46.9 (33.1-57.9) | 24.7 (17.3-31.5) | 7.5 (3.1-11.8) | 33.9 (24.6-42.0) | 94.6 (91.1-96.7) | 44.5 (35.2-52.6) | 47.2 (37.6-55.3) | 14.4 (7.3-21.0) | 39.4 (30.6-47.1) |
| Cumulative dose in last year, mg | | | | | | | | | | |
| nonuse | 60.0 (58.1-61.8) | 13.8 (12.6-14.9) | 11.4 (10.3-12.4) | 2.5 (2.1- 3.0) | 12.9 (11.8-14.1) | 63.7 (62.5-64.8) | 12.3 (11.6-13.0) | 13.8 (13.1-14.5) | 2.2 (1.9- 2.5) | 13.5 (12.8-14.2) |
| >0-959.9 | 86.9 (83.5-89.5) | 37.3 (31.9-42.4) | 26.3 (21.9-30.5) | 6.8 (4.1- 9.5) | 35.8 (30.5-40.7) | 89.4 (87.6-91.0) | 31.3 (28.2-34.3) | 35.8 (32.4-38.9) | 6.6 (5.2- 8.0) | 31.7 (28.8-34.6) |
| 960.0-3,054.9 | 93.7 (91.8-95.3) | 46.7 (41.0-51.8) | 34.6 (30.0-39.0) | 9.2 (5.9-12.3) | 36.9 (32.4-41.1) | 92.8 (91.5-93.9) | 39.8 (36.7-42.7) | 42.6 (39.4-45.7) | 10.9 (8.8-13.0) | 38.2 (35.4-40.8) |
| ≥3,055.0 | 96.5 (92.9-98.2) | 57.9 (44.7-67.9) | 49.1 (36.2-59.3) | 13.8 (2.9-23.4) | 43.4 (32.9-52.3) | 97.6 (95.6-98.6) | 53.0 (46.1-59.0) | 51.5 (43.0-58.7) | 8.9 (6.6-11.0) | 48.9 (40.4-56.2) |
| Total cumulative dose, mg | | | | | | | | | | |
| nonuse | 76.2 (72.6-79.3) | 22.4 (18.7-26.0) | 18.5 (15.3-21.7) | 4.2 (2.8-5.7) | 19.5 (16.3-22.6) | 80.4 (78.4-82.3) | 22.2 (19.8-24.5) | 25.3 (23.0-27.5) | 5.6 (4.3-6.8) | 24.6 (22.4-26.8) |
| >0-959.9 | 79.3 (75.8-82.3) | 26.0 (22.1-29.8) | 20.0 (16.6-23.3) | 6.7 (4.4-9.0) | 26.3 (22.6-29.8) | 83.4 (81.3-85.2) | 21.3 (19.2-23.4) | 28.0 (25.5-30.4) | 5.5 (4.3-6.6) | 26.1 (23.7-28.4) |
| 9,60.0-3,054.9 | 78.1 (75.6-80.3) | 26.3 (23.6-29.0) | 18.8 (16.6-21.0) | 5.2 (3.9-6.5) | 25.3 (22.6-27.9) | 82.7 (81.2-84.1) | 23.2 (21.5-24.9) | 25.9 (24.2-27.6) | 5.2 (4.4-6.0) | 26.4 (24.7-28.1) |
| 3,055.0-7,299.9 | 74.2 (72.0-76.3) | 21.2 (19.1-23.3) | 20.7 (18.7-22.7) | 4.5 (3.5-5.4) | 21.7 (19.6-23.8) | 76.9 (75.5-78.3) | 20.9 (19.5-22.3) | 22.0 (20.6-23.3) | 3.8 (3.2-4.4) | 21.5 (20.1-22.8) |
| ≥7,300.0 | 68.0 (65.1-70.6) | 19.5 (17.4-21.6) | 14.0 (12.2-15.8) | 2.5 (1.7-3.3) | 14.8 (13.0-16.7) | 67.2 (65.4-68.9) | 16.6 (15.4-17.7) | 16.9 (15.7-18.1) | 3.0 (2.5-3.6) | 14.8 (13.7-15.9) |

Note: CI, confidence interval; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage.

Supplemental Table 8. Secondary analysis for the association between time variant prescribed oral glucocorticoids and incident infections for patients with incident polymyalgia and/or giant cell arteritis (people with disease diagnosed before the start of follow-up were excluded)

| | Hazard ratio with 95% CI* | | | | |
|---|----------------------------------|-----------------------------|-------------------------|-----------------------------|--------------------------|
| | All-cause infection | Bacterial infections | Viral infections | Parasitic infections | Fungal infections |
| Ever use (ref = Not used since 1-year prior study entry) | 0.96 (0.90-1.02) | 1.03 (0.89-1.17) | 0.94 (0.82-1.07) | 0.97 (0.71-1.22) | 1.12 (1.00-1.25) |
| Current use (ref = non-use) | 1.52 (1.46-1.58) | 1.78 (1.65-1.92) | 1.50 (1.4-1.62) | 1.46 (1.24-1.72) | 1.53 (1.42-1.64) |
| Current daily dose per 5 mg/day | 1.12 (1.10-1.13) | 1.16 (1.13-1.19) | 1.12 (1.09-1.14) | 1.12 (1.06-1.17) | 1.11 (1.09-1.14) |
| Current daily dose category, mg | | | | | |
| Non-use (ref) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| >0-4.9 | 1.44 (1.37-1.52) | 1.66 (1.46-1.9) | 1.46 (1.31-1.64) | 1.4 (1.09-1.79) | 1.52 (1.37-1.69) |
| 5.0-14.9 | 1.49 (1.42-1.56) | 1.74 (1.56-1.93) | 1.43 (1.29-1.58) | 1.37 (1.11-1.69) | 1.44 (1.32-1.58) |
| 15.0-24.9 | 1.69 (1.54-1.85) | 2.02 (1.73-2.36) | 1.72 (1.48-2.00) | 1.78 (1.24-2.54) | 1.65 (1.43-1.92) |
| ≥25 | 2.22 (2.03-2.43) | 2.87 (2.31-3.58) | 2.24 (1.82-2.77) | 2.25 (1.50-3.36) | 2.26 (1.85-2.75) |
| Cumulative dose in last year (per 1000 mg) | 1.66 (1.62-1.69) | 1.88 (1.85-1.91) | 1.87 (1.84-1.89) | 2.00 (1.94-2.07) | 1.96 (1.94-1.99) |
| Cumulative dose in last year category, mg | | | | | |
| Non-use (ref) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| >0-959.9 | 2.19 (2.09-2.30) | 2.00 (1.82-2.21) | 2.06 (1.87-2.26) | 2.19 (1.77-2.70) | 2.17 (1.98-2.37) |
| 960-3,054.9 | 2.85 (2.74-2.97) | 2.96 (2.72-3.21) | 2.74 (2.53-2.97) | 3.08 (2.57-3.69) | 3.05 (2.82-3.00) |
| ≥3,055 | 3.39 (3.21-3.58) | 3.91 (3.49-4.39) | 3.82 (3.43-4.25) | 4.18 (3.31-5.29) | 3.59 (3.22-4.00) |
| Total cumulative dose (per 1000 mg) | 1.01 (1.00-1.01) | 1.02 (1.01-1.02) | 1.01 (1.00-1.01) | 1.01 (1.00-1.03) | 1.01 (1.00-1.01) |
| Total cumulative dose category, mg | | | | | |
| Non-use (ref) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| >0-959.9 | 1.01 (0.94-1.08) | 1.05 (0.89-1.23) | 1.00 (0.87-1.15) | 0.92 (0.69-1.23) | 1.06 (0.92-1.22) |
| 960-3,054.9 | 0.91 (0.86-0.97) | 1.03 (0.89-1.20) | 0.80 (0.70-0.91) | 0.81 (0.62-1.06) | 1.05 (0.92-1.19) |
| 3,055-7,299.9 | 0.95 (0.89-1.01) | 1.02 (0.88-1.18) | 0.91 (0.80-1.03) | 0.90 (0.69-1.19) | 1.03 (0.90-1.17) |
| ≥7,300 | 1.04 (0.96-1.11) | 1.33 (1.14-1.56) | 0.98 (0.85-1.12) | 1.01 (0.74-1.37) | 1.07 (0.93-1.23) |

Note: CI, confidence interval; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage. Hazard ratios from Cox proportional models adjusted for baseline age, sex, index of multiple deprivation, smoking status, ethnicity, BMI, disease type, comorbidities (CVD, diabetes, HIV, cancer, asthma, COPD, and

renal disease), prescribed non-oral glucocorticoids, proton pump inhibitors and H2 antagonists; and time-variant use of DMARDs and NSAIDs; practice ID was included as a random intercept to account for clustering effect.

Supplemental Table 9. Kaplan-Meier estimates of infections per level of current daily and cumulative oral glucocorticoid prednisolone-equivalent dose by age group

| All-cause infection | Age group | | |
|--|------------------|------------------|------------------|
| | <60 years | 60-74 years | ≥75 years |
| Incident infections, n (%) | 2,401 | 8,988 | 10,845 |
| Cumulative probability (95% CI) at 1 year | 18.4 (17.2-19.5) | 16.4 (15.8-17.0) | 19.9 (19.3-20.5) |
| Current daily dose, mg | | | |
| nonuse (ref) | 13.8 (12.4-15.3) | 11.2 (10.4-12.0) | 14.0 (13.1-14.8) |
| >0-4.9 | 19.3 (16.2-22.4) | 16.0 (14.7-17.2) | 19.4 (18.2-20.7) |
| 5.0-14.9 | 22.6 (19.9-25.2) | 18.6 (17.5-19.6) | 23.0 (21.9-24.1) |
| 15.0-24.9 | 29.6 (23.3-35.3) | 26.4 (23.7-29.1) | 34.1 (31.3-36.8) |
| ≥25.0 mg | 43.2 (33.1-51.7) | 33.7 (29.3-37.8) | 36.3 (31.9-40.4) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 7.2 (6.3- 8.1) | 3.9 (3.5- 4.2) | 5.6 (5.2- 6.0) |
| >0-959.9 | 49.8 (44.1-54.9) | 37.8 (35.2-40.3) | 38.0 (35.9-40.1) |
| 960.0-3,054.9 | 53.1 (48.2-57.5) | 49.7 (47.6-51.8) | 48.3 (46.5-50.0) |
| ≥3,055.0 | 66.3 (58.0-73.0) | 58.1 (54.4-61.5) | 60.8 (57.5-63.9) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 19.7 (17.3-22.0) | 18.8 (17.1-20.5) | 22.3 (20.7-23.8) |
| >0-959.9 | 26.2 (22.7-29.5) | 27.8 (25.7-29.8) | 30.7 (28.9-32.5) |
| 960.0-3,054.9 | 21.1 (18.7-23.4) | 20.3 (19.2-21.4) | 23.3 (22.3-24.3) |
| 3,055.0-7,299.9 | 10.1 (8.3-11.8) | 8.8 (8.0- 9.5) | 11.6 (10.8-12.4) |
| ≥7,300.0 | 12.0 (5.7-18.0) | 7.3 (5.1- 9.4) | 6.8 (4.8- 8.8) |
| Cumulative probability (95% CI) at 5 years | 53.7 (51.9-55.3) | 51.1 (50.2-51.9) | 58.2 (57.3-59.0) |
| Current daily dose, mg | | | |
| nonuse (ref) | 45.1 (43.0-47.2) | 37.9 (36.8-39.1) | 45.1 (43.9-46.2) |
| >0-4.9 | 67.6 (62.2-72.2) | 61.2 (58.9-63.3) | 67.9 (65.8-69.8) |
| 5.0-14.9 | 70.1 (65.9-73.9) | 66.9 (65.1-68.6) | 72.3 (70.7-73.8) |
| 15.0-24.9 | 74.5 (65.4-81.2) | 74.8 (70.9-78.3) | 81.4 (77.8-84.5) |
| ≥25.0 | 80.9 (68.7-88.3) | 79.9 (75.0-83.9) | 83.5 (78.2-87.5) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 37.7 (35.6-39.7) | 28.2 (27.2-29.3) | 35.3 (34.1-36.4) |
| >0-959.9 | 83.8 (78.7-87.7) | 72.8 (70.3-75.1) | 74.9 (72.8-76.9) |
| 960.0-3,054.9 | 85.2 (81.2-88.4) | 83.7 (81.9-85.3) | 84.9 (83.4-86.2) |
| ≥3,055.0 | 95.0 (85.9-98.2) | 93.7 (91.2-95.4) | 91.3 (88.7-93.2) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 58.0 (54.4-61.3) | 55.3 (52.6-57.8) | 61.9 (59.4-64.2) |
| >0-959.9 | 58.6 (54.2-62.6) | 59.3 (56.6-61.8) | 66.1 (63.8-68.3) |
| 960.0-3,054.9 | 55.1 (51.3-58.5) | 59.8 (58.0-61.5) | 64.5 (62.9-66.1) |
| 3,055.0-7,299.9 | 57.6 (53.9-61.1) | 51.7 (50.1-53.3) | 58.0 (56.4-59.5) |
| ≥7,300.0 | 33.6 (29.4-37.5) | 33.4 (31.6-35.2) | 39.5 (37.5-41.4) |
| Cumulative probability (95% CI) at 10 years | 72.8 (70.9-74.6) | 73.3 (72.3-74.2) | 81.8 (80.8-82.7) |
| Current daily dose, mg | | | |
| nonuse (ref) | 66.2 (63.7-68.5) | 63.5 (62.0-64.9) | 73.7 (72.2-75.1) |
| >0-4.9 | 82.4 (76.7-86.7) | 81.5 (79.0-83.6) | 87.5 (85.3-89.4) |
| 5.0-14.9 | 85.2 (80.5-88.7) | 86.2 (84.4-87.8) | 91.8 (90.2-93.1) |
| 15.0-24.9 | 93.6 (83.4-97.5) | 90.1 (86.0-93.1) | 94.2 (90.6-96.4) |
| ≥25.0 | 95.3 (83.1-98.7) | 91.8 (86.9-94.8) | 93.8 (88.5-96.7) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 61.9 (59.3-64.4) | 57.1 (55.6-58.6) | 69.0 (67.4-70.6) |
| >0-959.9 | 87.1 (79.7-91.7) | 87.1 (84.7-89.2) | 90.4 (88.1-92.3) |
| 960.0-3,054.9 | 95.4 (91.2-97.6) | 91.1 (89.4-92.6) | 94.5 (92.9-95.7) |
| ≥3,055.0 | 97.3 (85.1-99.5) | 97.5 (94.9-98.7) | 96.9 (94.3-98.3) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 75.0 (71.1-78.3) | 77.4 (74.5-79.9) | 84.3 (81.2-86.9) |

| | | | |
|--|---------------------|--------------------|------------------|
| >0-959.9 | 77.8 (72.9-81.9) | 80.0 (77.2-82.5) | 85.9 (83.1-88.2) |
| 960.0-3,054.9 | 73.8 (69.5-77.5) | 79.3 (77.2-81.1) | 84.8 (83.0-86.5) |
| 3,055.0-7,299.9 | 73.6 (69.3-77.3) | 72.4 (70.6-74.1) | 80.4 (78.6-82.1) |
| ≥7,300.0 | 61.5 (56.3-66.1) | 63.0 (60.8-65.0) | 74.4 (72.0-76.5) |
| Bacterial infections | <60 years | 60-74 years | ≥75 years |
| Incident infections, n (%) | 417 | 1,973 | 2,844 |
| Cumulative probability (95% CI) at 1 year | 2.2 (1.7-2.6) | 2.4 (2.1-2.6) | 4.0 (3.8-4.3) |
| Current daily dose, mg | | | |
| nonuse (ref) | 1.2 (0.8- 1.7) | 1.6 (1.3-1.9) | 2.7 (2.3- 3.1) |
| >0-4.9 | 3.2 (1.8- 4.6) | 2.6 (2.0-3.1) | 4.2 (3.6- 4.8) |
| 5.0-14.9 | 3.2 (2.0- 4.3) | 2.4 (1.9-2.8) | 4.5 (3.9- 5.0) |
| 15.0-24.9 | 4.1 (1.3- 6.8) | 4.7 (3.3-6.0) | 8.4 (6.6-10.0) |
| ≥25.0 | 6.7 (1.4-11.8) | 6.5 (4.1-8.9) | 9.5 (6.7-12.3) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 0.5 (0.3- 0.8) | 0.4 (0.3- 0.5) | 1.0 (0.8- 1.1) |
| >0-959.9 | 11.8 (6.3-16.9) | 10.4 (8.1-12.6) | 11.9 (10.1-13.6) |
| 960.0-3,054.9 | 19.0 (13.2-24.5) | 17.4 (14.9-19.8) | 16.8 (15.1-18.5) |
| ≥3,055.0 | 28.4 (14.3-40.1) | 22.4 (17.1-27.3) | 23.2 (19.1-27.0) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 1.8 (1.0-2.6) | 2.7 (2.0-3.4) | 4.9 (4.0-5.7) |
| >0-959.9 | 2.8 (1.5-4.1) | 4.3 (3.3-5.2) | 6.9 (5.8-7.9) |
| 960.0-3,054.9 | 3.2 (2.1-4.2) | 3.2 (2.7-3.7) | 4.8 (4.3-5.3) |
| 3,055.0-7,299.9 | 1.5 (0.8-2.2) | 1.2 (0.9-1.4) | 2.4 (2.0-2.7) |
| ≥7,300.0 | 0.8 (0.0-2.2) | 0.7 (0.1-1.3) | 0.6 (0.0-1.1) |
| Cumulative probability (95% CI) at 5 years | 7.5 (6.6-8.4) | 9.3 (8.8-9.8) | 14.8 (14.2-15.4) |
| Current daily dose, mg | | | |
| nonuse (ref) | 5.2 (4.4- 6.1) | 6.0 (5.5- 6.5) | 9.9 (9.2-10.5) |
| >0-4.9 | 13.9 (9.8-17.8) | 14.2 (12.5-15.8) | 19.8 (18.0-21.5) |
| 5.0-14.9 | 11.3 (8.2-14.3) | 13.9 (12.4-15.3) | 21.7 (20.0-23.3) |
| 15.0-24.9 | 20.2 (10.5-28.9) | 19.2 (15.2-23.1) | 28.5 (23.8-32.8) |
| ≥25.0 | 24.8 (11.6-36.1) | 23.2 (17.3-28.6) | 35.2 (27.5-42.2) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 4.0 (3.3- 4.8) | 3.4 (3.1- 3.8) | 6.8 (6.3- 7.4) |
| >0-959.9 | 19.0 (12.1-25.2) | 23.0 (19.9-25.9) | 25.3 (22.7-27.8) |
| 960.0-3,054.9 | 29.4 (22.2-36.0) | 32.5 (29.3-35.6) | 33.9 (31.4-36.4) |
| ≥3,055.0 | 41.2 (19.5-57.1) | 50.2 (42.6-56.9) | 51.4 (44.5-57.4) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 7.6 (5.6- 9.5) | 9.0 (7.5-10.6) | 17.5 (15.5-19.5) |
| >0-959.9 | 7.3 (5.0- 9.4) | 12.4 (10.5-14.3) | 18.1 (16.0-20.1) |
| 960.0-3,054.9 | 9.0 (6.9-11.1) | 11.9 (10.7-13.2) | 18.0 (16.6-19.4) |
| 3,055.0-7,299.9 | 8.8 (6.7-10.9) | 9.5 (8.6-10.5) | 14.6 (13.5-15.7) |
| ≥7,300.0 | 4.4 (2.9- 5.9) | 6.1 (5.4- 6.9) | 9.1 (8.1-10.1) |
| Cumulative probability (95% CI) at 10 years | 13.8 (12.4-15.3) | 17.4 (16.6-18.2) | 27.5 (26.4-28.6) |
| Current daily dose, mg | | | |
| nonuse (ref) | 10.9 (9.4-12.4) | 12.7 (11.8-13.5) | 21.3 (20.0-22.6) |
| >0-4.9 | 25.3 (18.6-31.4) | 24.3 (21.7-26.8) | 35.3 (31.8-38.6) |
| 5.0-14.9 | 15.7 (11.4-19.8) | 25.6 (23.1-28.1) | 38.7 (35.5-41.6) |
| 15.0-24.9 | 32.0 (17.8-43.7) | 33.2 (26.4-39.4) | 38.0 (30.6-44.5) |
| ≥25.0 | 62.8 (26.5-81.2) | 39.1 (29.2-47.6) | 48.7 (35.3-59.4) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 9.4 (8.0-10.7) | 9.6 (8.8-10.4) | 18.3 (17.1-19.5) |
| >0-959.9 | 29.0 (19.1-37.7) | 29.2 (25.4-32.9) | 37.5 (33.2-41.6) |
| 960.0-3,054.9 | 36.6 (25.5-46.1) | 38.9 (34.9-42.6) | 44.8 (40.7-48.7) |
| ≥3,055.0 | 33.8 (15.2-48.3) | 54.8 (44.6-63.1) | 57.6 (49.2-64.7) |
| Total cumulative dose, mg | | | |

| | | | |
|--|---------------------|--------------------|------------------|
| nonuse (ref) | 15.3 (11.8-18.6) | 16.8 (14.1-19.5) | 33.8 (29.0-38.3) |
| >0-959.9 | 13.4 (9.6-17.1) | 19.8 (17.0-22.5) | 29.1 (25.6-32.5) |
| 960.0-3,054.9 | 16.2 (12.7-19.6) | 19.7 (17.7-21.7) | 31.0 (28.4-33.5) |
| 3,055.0-7,299.9 | 15.4 (12.0-18.7) | 17.7 (16.1-19.2) | 25.9 (23.8-27.9) |
| ≥7,300.0 | 9.7 (7.2-12.1) | 14.9 (13.6-16.2) | 23.0 (21.1-24.9) |
| Viral infection | <60 years | 60-74 years | ≥75 years |
| Incident infections, n (%) | 670 | 2,291 | 2,383 |
| Cumulative probability (95% CI) at 1 year | 4.1 (3.5-4.8) | 3.4 (3.1-3.7) | 4.0 (3.7-4.3) |
| Current daily dose, mg | | | |
| nonuse (ref) | 3.1 (2.4-3.8) | 2.2 (1.8-2.6) | 2.5 (2.1-2.8) |
| >0-4.9 | 3.6 (2.1-5.1) | 3.2 (2.6-3.8) | 3.9 (3.3-4.5) |
| 5.0-14.9 | 5.2 (3.8-6.7) | 4.3 (3.7-4.9) | 4.8 (4.3-5.4) |
| 15.0-24.9 | 10.4 (6.1-14.5) | 5.6 (4.2-7.1) | 8.2 (6.5-9.8) |
| ≥25.0 | 9.7 (3.5-15.5) | 5.7 (3.4-8.0) | 9.7 (6.8-12.4) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 1.5 (1.1-1.9) | 0.6 (0.5-0.7) | 0.8 (0.7-1.0) |
| >0-959.9 | 19.0 (12.6-25.0) | 14.6 (12.0-17.1) | 13.0 (11.2-14.7) |
| 960.0-3,054.9 | 24.6 (18.5-30.3) | 22.3 (19.6-24.8) | 15.7 (14.0-17.4) |
| ≥3,055.0 | 39.5 (26.6-50.0) | 25.7 (20.7-30.3) | 23.8 (19.8-27.7) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 4.9 (3.6-6.1) | 3.7 (2.9-4.5) | 3.8 (3.1-4.5) |
| >0-959.9 | 5.0 (3.2-6.7) | 6.3 (5.1-7.4) | 7.9 (6.8-9.0) |
| 960.0-3,054.9 | 4.8 (3.5-6.0) | 4.5 (3.9-5.0) | 4.6 (4.0-5.1) |
| 3,055.0-7,299.9 | 2.4 (1.5-3.3) | 1.8 (1.4-2.1) | 2.4 (2.0-2.8) |
| ≥7,300.0 | 4.7 (1.0-8.3) | 1.0 (0.3-1.8) | 0.8 (0.2-1.4) |
| Cumulative probability (95% CI) at 5 years | 14.1 (12.9-15.2) | 12.4 (11.9-13.0) | 13.4 (12.9-14.0) |
| Current daily dose, mg | | | |
| nonuse (ref) | 11.0 (9.7-12.2) | 8.2 (7.6-8.9) | 8.7 (8.1-9.3) |
| >0-4.9 | 19.7 (14.9-24.3) | 15.9 (14.1-17.6) | 18.9 (17.1-20.7) |
| 5.0-14.9 | 22.8 (18.6-26.8) | 20.6 (18.9-22.2) | 19.7 (18.2-21.2) |
| 15.0-24.9 | 28.3 (18.9-36.7) | 22.0 (17.8-26.1) | 26.4 (21.9-30.6) |
| ≥25.0 | 32.8 (16.9-45.6) | 26.6 (20.3-32.4) | 26.9 (19.9-33.3) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 8.1 (7.1-9.1) | 5.3 (4.8-5.7) | 5.9 (5.4-6.4) |
| >0-959.9 | 42.6 (33.4-50.6) | 26.2 (23.2-29.0) | 23.7 (21.2-26.1) |
| 960.0-3,054.9 | 41.9 (34.2-48.6) | 38.6 (35.4-41.6) | 31.6 (29.1-34.0) |
| ≥3,055.0 | 54.9 (36.5-67.9) | 55.8 (47.5-62.8) | 39.8 (33.9-45.1) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 15.4 (12.8-18.0) | 15.2 (13.2-17.1) | 13.2 (11.3-14.9) |
| >0-959.9 | 16.3 (12.9-19.5) | 16.5 (14.4-18.5) | 18.0 (16.0-19.9) |
| 960.0-3,054.9 | 16.2 (13.4-19.0) | 16.0 (14.6-17.4) | 16.0 (14.7-17.3) |
| 3,055.0-7,299.9 | 15.6 (12.9-18.2) | 12.6 (11.5-13.6) | 14.4 (13.3-15.5) |
| ≥7,300.0 | 7.4 (5.5-9.4) | 7.3 (6.4-8.1) | 7.5 (6.6-8.5) |
| Cumulative probability (95% CI) at 10 years | 22.5 (20.8-24.2) | 20.0 (19.2-20.8) | 22.3 (21.3-23.3) |
| Current daily dose, mg | | | |
| nonuse (ref) | 18.4 (16.6-20.2) | 14.9 (14.0-15.9) | 16.4 (15.2-17.6) |
| >0-4.9 | 31.8 (24.5-38.3) | 24.3 (21.8-26.8) | 31.2 (27.9-34.3) |
| 5.0-14.9 | 30.3 (24.5-35.6) | 30.9 (28.4-33.2) | 31.4 (28.5-34.2) |
| 15.0-24.9 | 59.5 (38.6-73.3) | 33.2 (26.7-39.1) | 39.7 (30.6-47.6) |
| ≥25.0 | 67.8 (37.5-83.4) | 39.4 (29.9-47.6) | 28.5 (19.7-36.4) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 15.5 (13.9-17.2) | 11.8 (11.0-12.6) | 14.0 (12.9-15.1) |
| >0-959.9 | 44.6 (34.4-53.2) | 33.2 (29.3-36.8) | 30.2 (26.1-34.1) |
| 960.0-3,054.9 g | 56.6 (43.0-67.0) | 39.7 (36.0-43.2) | 38.8 (34.7-42.6) |
| ≥3,055.0 | 52.2 (31.0-66.9) | 52.2 (42.4-60.4) | 48.6 (37.2-58.0) |

| | | | |
|--|---------------------|--------------------|------------------|
| Total cumulative dose, mg | | | |
| nonuse (ref) | 24.4 (20.5-28.1) | 24.6 (21.7-27.4) | 21.9 (18.5-25.2) |
| >0-959.9 | 24.3 (19.6-28.7) | 24.3 (21.3-27.2) | 28.8 (24.9-32.5) |
| 960.0-3,054.9 | 23.5 (19.6-27.2) | 23.9 (21.8-25.9) | 23.5 (21.3-25.6) |
| 3,055.0-7,299.9 | 23.2 (19.4-26.7) | 19.6 (18.1-21.2) | 23.6 (21.6-25.5) |
| ≥7,300.0 | 17.8 (14.4-21.0) | 15.2 (13.9-16.5) | 16.9 (15.1-18.6) |
| Parasitic infections | <60 years | 60-74 years | ≥75 years |
| Incident infections, n (%) | 126 | 476 | 518 |
| Cumulative probability (95% CI) at 1 year | 0.9 (0.6-1.1) | 0.8 (0.7-1.0) | 1.0 (0.9-1.2) |
| Current daily dose, mg | | | |
| nonuse (ref) | 0.6 (0.3-1.0) | 0.6 (0.4-0.8) | 0.6 (0.5-0.8) |
| >0-4.9 | 0.5 (0.0-1.1) | 0.8 (0.5-1.2) | 0.8 (0.5-1.1) |
| 5.0-14.9 | 1.5 (0.7-2.3) | 0.9 (0.6-1.2) | 1.3 (1.0-1.6) |
| 15.0-24.9 | 0.5 (0.0-1.5) | 1.6 (0.8-2.4) | 2.5 (1.6-3.5) |
| ≥25.0 | 2.3 (0.0-5.4) | 1.4 (0.3-2.6) | 2.6 (1.1-4.1) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 0.3 (0.1-0.5) | 0.1 (0.1-0.2) | 0.2 (0.1-0.3) |
| >0-959.9 | 2.1 (0.0-4.5) | 4.2 (2.7-5.7) | 3.4 (2.4-4.5) |
| 960.0-3,054.9 | 8.5 (4.2-12.6) | 7.0 (5.2- 8.8) | 4.7 (3.6-5.7) |
| ≥3,055.0 | 10.4 (0.4-19.3) | 8.3 (4.9-11.7) | 7.5 (4.9-10.0) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 1.0 (0.4-1.6) | 1.0 (0.6-1.4) | 1.1 (0.7-1.4) |
| >0-959.9 | 0.7 (0.0-1.3) | 1.6 (1.0-2.2) | 1.8 (1.3-2.4) |
| 960.0-3,054.9 | 1.1 (0.5-1.8) | 1.1 (0.8-1.3) | 1.2 (0.9-1.5) |
| 3,055.0-7,299.9 | 0.6 (0.2-1.0) | 0.4 (0.3-0.6) | 0.6 (0.4-0.8) |
| ≥7,300.0 | 0.0 (0.0-0.0) | 0.4 (0.0-0.9) | 0.5 (0.0-1.0) |
| Cumulative probability (95% CI) at 5 years | 2.6 (2.1-3.1) | 2.6 (2.3-2.9) | 3.0 (2.7-3.3) |
| Current daily dose, mg | | | |
| nonuse (ref) | 2.1 (1.5-2.6) | 1.7 (1.4-2.0) | 2.0 (1.7-2.3) |
| >0-4.9 | 2.9 (1.0-4.8) | 3.6 (2.7-4.4) | 3.1 (2.3-3.9) |
| 5.0-14.9 | 4.8 (2.7-6.7) | 4.1 (3.3-4.9) | 4.8 (4.0-5.7) |
| 15.0-24.9 | 3.2 (0.0-6.7) | 6.7 (4.2-9.1) | 6.9 (4.4-9.4) |
| ≥25.0 | 8.8 (0.2-16.6) | 5.5 (2.4-8.5) | 8.6 (3.8-13.1) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 1.5 (1.0-1.9) | 1.0 (0.8-1.2) | 1.2 (1.0-1.4) |
| >0-959.9 | 6.4 (2.1-10.5) | 5.6 (4.1-7.1) | 5.2 (4.0-6.5) |
| 960.0-3,054.9 | 10.4 (4.7-15.7) | 10.1 (8.0-12.2) | 8.5 (6.9-10.1) |
| ≥3,055.0 | 18.8 (0.0-34.7) | 15.4 (9.8-20.7) | 10.7 (6.8-14.5) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 3.1 (1.9-4.3) | 3.8 (2.8-4.9) | 3.1 (2.2-3.9) |
| >0-959.9 | 2.6 (1.2-4.0) | 3.7 (2.6-4.7) | 4.5 (3.4-5.6) |
| 960.0-3,054.9 | 3.5 (2.1-4.9) | 3.4 (2.7-4.1) | 3.8 (3.1-4.5) |
| 3,055.0-7,299.9 | 3.0 (1.8-4.3) | 2.6 (2.1-3.0) | 2.9 (2.4-3.5) |
| ≥7,300.0 | 0.9 (0.2-1.6) | 1.3 (1.0-1.7) | 1.6 (1.2-2.1) |
| Cumulative probability (95% CI) at 10 years | 4.0 (3.2-4.7) | 4.0 (3.6-4.4) | 4.7 (4.2-5.2) |
| Current daily dose, mg | | | |
| nonuse (ref) | 3.1 (2.4-3.9) | 2.7 (2.3-3.1) | 3.4 (2.9-3.9) |
| >0-4.9 | 3.6 (1.3-5.9) | 5.8 (4.4-7.1) | 5.1 (3.7-6.5) |
| 5.0-14.9 | 7.5 (4.2-10.7) | 5.9 (4.7-7.2) | 7.7 (5.9-9.4) |
| 15.0-24.9 | 8.0 (0.0-17.1) | 11.4 (6.8-15.8) | 6.6 (4.2-9.0) |
| ≥25.0 | 19.4 (4.0-32.4) | 9.4 (4.3-14.3) | 12.2 (1.2-22.0) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 2.6 (1.9-3.3) | 2.0 (1.6-2.3) | 2.6 (2.2-3.1) |
| >0-959.9 | 6.2 (2.7-9.5) | 6.6 (4.9-8.2) | 6.8 (4.6-9.0) |
| 960.0-3,054.9 | 16.8 (5.8-26.5) | 10.3 (7.9-12.7) | 9.7 (7.0-12.2) |

| | | | |
|--|---------------------|--------------------|------------------|
| ≥3,055.0 | 7.8 (2.8-12.5) | 13.7 (5.8-21.0) | 7.3 (5.3-9.2) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 4.2 (2.6-5.8) | 6.2 (4.5-7.8) | 5.1 (3.3-6.9) |
| >0-959.9 | 2.9 (1.4-4.5) | 5.6 (4.1-7.2) | 7.6 (5.2-9.8) |
| 960.0-3,054.9 | 4.9 (3.1-6.7) | 4.8 (3.8-5.8) | 5.7 (4.5-6.9) |
| 3,055.0-7,299.9 | 5.6 (3.5-7.6) | 3.5 (2.8-4.1) | 4.4 (3.5-5.3) |
| ≥7,300.0 | 2.4 (1.1-3.7) | 2.9 (2.3-3.5) | 3.0 (2.3-3.7) |
| Fungal infections | <60 years | 60-74 years | ≥75 years |
| Incident infections, n (%) | 687 | 2,477 | 2,252 |
| Cumulative probability (95% CI) at 1 year | 4.1 (3.5-4.7) | 3.8 (3.5-4.1) | 3.9 (3.7-4.2) |
| Current daily dose, mg | | | |
| nonuse (ref) | 2.6 (2.0-3.3) | 2.3 (2.0-2.7) | 2.5 (2.1-2.8) |
| >0-4.9 | 4.9 (3.1-6.6) | 4.0 (3.3-4.6) | 4.0 (3.3-4.6) |
| 5.0-14.9 | 5.6 (4.1-7.1) | 4.6 (4.0-5.2) | 4.7 (4.1-5.2) |
| 15.0-24.9 | 9.2 (5.2-13.1) | 6.1 (4.6-7.6) | 8.2 (6.5-9.9) |
| ≥25.0 | 10.8 (4.2-16.8) | 7.8 (5.2-10.4) | 8.7 (6.0-11.3) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 1.3 (1.0-1.7) | 0.8 (0.6-0.9) | 0.8 (0.7-1.0) |
| >0-959.9 | 17.5 (11.7-22.8) | 14.2 (11.8-16.6) | 11.6 (9.9-13.3) |
| 960.0-3,054.9 | 25.9 (20.0-31.4) | 25.0 (22.4-27.5) | 17.0 (15.2-18.7) |
| ≥3,055.0 | 35.5 (22.9-46.0) | 23.9 (18.9-28.6) | 23.0 (18.8-26.9) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 4.5 (3.2-5.7) | 4.7 (3.7-5.6) | 4.0 (3.3-4.8) |
| >0-959.9 | 5.1 (3.3-6.9) | 7.0 (5.7-8.1) | 6.7 (5.7-7.8) |
| 960.0-3,054.9 | 5.5 (4.2-6.8) | 5.3 (4.7-5.9) | 5.1 (4.5-5.6) |
| 3,055.0-7,299.9 | 2.0 (1.2-2.8) | 1.6 (1.3-1.9) | 2.0 (1.7-2.4) |
| ≥7,300.0 | 3.9 (0.5-7.3) | 0.9 (0.2-1.6) | 1.5 (0.6-2.3) |
| Cumulative probability (95% CI) at 5 years | 15.5 (14.3-16.7) | 14.0 (13.4-14.6) | 13.0 (12.4-13.5) |
| Current daily dose, mg | | | |
| nonuse (ref) | 11.7 (10.4-13.0) | 9.1 (8.5-9.8) | 8.9 (8.2-9.5) |
| >0-4.9 | 21.6 (16.7-26.2) | 19.3 (17.4-21.1) | 17.5 (15.8-19.2) |
| 5.0-14.9 | 28.6 (24.1-32.9) | 21.7 (20.0-23.3) | 18.0 (16.5-19.5) |
| 15.0-24.9 | 29.2 (19.2-38.0) | 30.1 (25.3-34.6) | 25.2 (20.7-29.4) |
| ≥25.0 | 25.9 (13.0-36.8) | 27.1 (21.1-32.6) | 27.0 (20.2-33.2) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 8.8 (7.7- 9.9) | 5.8 (5.4-6.3) | 5.9 (5.4-6.4) |
| >0-959.9 | 41.3 (33.0-48.7) | 29.8 (26.7-32.8) | 22.5 (20.0-24.8) |
| 960.0-3,054.9 | 47.5 (39.7-54.3) | 43.5 (40.3-46.6) | 30.5 (28.0-32.9) |
| ≥3,055.0 | 60.2 (41.8-72.7) | 53.2 (45.9-59.4) | 34.8 (28.6-40.4) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 16.7 (14.0-19.4) | 16.2 (14.2-18.2) | 14.5 (12.6-16.4) |
| >0-959.9 | 15.8 (12.5-18.9) | 17.7 (15.6-19.8) | 17.6 (15.6-19.6) |
| 960.0-3,054.9 | 18.6 (15.6-21.4) | 19.0 (17.4-20.5) | 17.0 (15.7-18.4) |
| 3,055.0-7,299.9 | 17.0 (14.2-19.7) | 14.4 (13.3-15.6) | 12.5 (11.4-13.5) |
| ≥7,300.0 | 9.1 (6.9-11.3) | 7.7 (6.8-8.5) | 6.9 (6.0-7.8) |
| Cumulative probability (95% CI) at 10 years | 22.2 (20.5-23.8) | 21.7 (20.9-22.6) | 20.4 (19.4-21.3) |
| Current daily dose, mg | | | |
| nonuse (ref) | 17.5 (15.7-19.2) | 16.3 (15.3-17.2) | 15.7 (14.6-16.8) |
| >0-4.9 | 29.9 (23.4-36.0) | 28.9 (26.1-31.5) | 28.3 (25.2-31.3) |
| 5.0-14.9 | 37.0 (31.1-42.5) | 31.2 (28.8-33.6) | 25.9 (23.4-28.3) |
| 15.0-24.9 | 46.4 (30.1-58.9) | 37.6 (31.6-43.1) | 31.5 (25.1-37.4) |
| ≥25.0 | 47.6 (25.1-63.3) | 35.2 (26.9-42.5) | 35.5 (24.5-45.0) |
| Cumulative dose in last year, mg | | | |
| nonuse (ref) | 14.8 (13.2-16.4) | 13.0 (12.1-13.9) | 13.1 (12.1-14.1) |
| >0-959.9 | 42.7 (32.8-51.1) | 34.0 (30.2-37.5) | 29.9 (26.1-33.6) |

| | | | |
|----------------------------------|------------------|------------------|------------------|
| 960.0-3,054.9 | 53.3 (41.8-62.5) | 40.4 (37.0-43.6) | 32.8 (29.4-35.9) |
| ≥3,055.0 | 48.1 (27.1-63.1) | 56.4 (46.4-64.6) | 33.3 (26.1-39.8) |
| Total cumulative dose, mg | | | |
| nonuse (ref) | 23.1 (19.4-26.6) | 25.6 (22.6-28.4) | 20.6 (17.7-23.4) |
| >0-959.9 | 24.4 (19.6-28.9) | 26.7 (23.6-29.6) | 26.6 (23.1-29.8) |
| 960.0-3,054.9 | 25.2 (21.3-29.0) | 28.4 (26.1-30.5) | 23.6 (21.6-25.6) |
| 3,055.0-7,299.9 | 23.2 (19.6-26.7) | 21.9 (20.3-23.5) | 21.0 (19.2-22.8) |
| ≥7,300.0 | 16.1 (12.9-19.1) | 15.0 (13.7-16.3) | 14.2 (12.6-15.8) |

Note: CI, confidence interval; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage.

Supplemental Table 10. Kaplan-Meier estimates of infections per level of current daily and cumulative oral glucocorticoid prednisolone-equivalent dose by vaccination status at baseline

| | Immunisation type | | | | | |
|---|-------------------|------------------|------------------|------------------|------------------|------------------|
| | Pneumococcal | | Influenza | | Varicella zoster | |
| All-cause infection | Yes | No | Yes | No | Yes | No |
| Incident infections, n (%) | 10419 | 11815 | 14338 | 7896 | 55 | 22179 |
| Cumulative probability (95% CI) at 1 year | 20.4 (19.8-21.0) | 16.3 (15.8-16.8) | 19.6 (19.1-20.1) | 15.9 (15.3-16.5) | 16.6 (11.5-21.4) | 18.3 (17.9-18.7) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 14.5 (13.7-15.4) | 11.6 (10.9-12.3) | 13.6 (12.9-14.3) | 11.9 (11.0-12.7) | 10.0 (2.6-16.8) | 12.9 (12.4-13.5) |
| >0-4.9 | 18.9 (17.7-20.1) | 17.0 (15.8-18.2) | 19.0 (18.0-20.1) | 15.9 (14.4-17.3) | 19.2 (7.0-29.8) | 18.0 (17.1-18.8) |
| 5.0-14.9 | 23.7 (22.7-24.8) | 18.4 (17.4-19.4) | 22.6 (21.7-23.5) | 18.1 (16.9-19.3) | 18.8 (9.6-27.1) | 21.1 (20.4-21.8) |
| 15.0-24.9 | 32.7 (30.0-35.2) | 27.9 (25.3-30.4) | 33.5 (31.1-35.8) | 24.7 (21.7-27.5) | 24.2 (0.0-42.5) | 30.4 (28.5-32.2) |
| ≥25.0 | 36.0 (31.9-39.9) | 35.6 (31.3-39.7) | 36.6 (32.9-40.0) | 34.4 (29.4-39.1) | 22.2 (0.0-45.1) | 35.9 (32.9-38.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 5.5 (5.1-5.9) | 4.7 (4.4-5.1) | 5.2 (4.8-5.5) | 4.9 (4.5-5.3) | 5.7 (0.7-10.5) | 5.1 (4.8-5.3) |
| >0-959.9 | 39.4 (37.2-41.4) | 38.4 (36.1-40.7) | 39.4 (37.6-41.3) | 37.8 (35.0-40.6) | 23.0 (9.9-34.3) | 39.1 (37.5-40.7) |
| 960.0-3,054.9 | 49.5 (47.7-51.2) | 48.8 (46.8-50.7) | 50.2 (48.7-51.8) | 46.8 (44.4-49.1) | 20.5 (10.4-29.4) | 49.5 (48.2-50.7) |
| ≥3,055.0 | 58.4 (55.2-61.4) | 62.5 (59.0-65.7) | 60.9 (58.0-63.5) | 58.9 (54.6-62.7) | 40.7 (6.7-62.4) | 60.3 (58.0-62.6) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 24.3 (22.6-26.0) | 17.9 (16.6-19.2) | 22.3 (20.9-23.6) | 18.3 (16.8-19.8) | 17.7 (2.1-30.8) | 20.6 (19.6-21.6) |
| >0-959.9 | 34.3 (32.4-36.2) | 24.2 (22.6-25.8) | 31.9 (30.3-33.5) | 23.9 (21.9-25.9) | 34.7 (15.1-49.7) | 29.0 (27.7-30.2) |
| 960.0-3,054.9 | 23.7 (22.6-24.7) | 20.0 (19.0-21.0) | 23.1 (22.2-24.0) | 19.5 (18.3-20.7) | 14.3 (6.7-21.3) | 21.9 (21.2-22.7) |
| 3,055.0-7,299.9 | 10.9 (10.1-11.7) | 9.5 (8.8-10.3) | 10.9 (10.3-11.6) | 8.9 (8.1-9.7) | 11.8 (3.8-19.2) | 10.2 (9.7-10.7) |
| ≥7,300.0 | 7.7 (5.5-9.9) | 7.2 (5.3-9.1) | 8.6 (6.7-10.5) | 5.3 (3.2-7.4) | 0.0 (0.0-0.0) | 7.5 (6.0-8.9) |
| Cumulative probability (95% CI) at 5 years | 58.8 (58.0-59.7) | 51.1 (50.3-51.9) | 57.3 (56.6-58.0) | 50.2 (49.3-51.1) | 39.8 (24.7-51.9) | 54.7 (54.1-55.2) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 44.7 (43.5-45.9) | 40.1 (39.1-41.1) | 43.8 (42.8-44.8) | 39.5 (38.3-40.7) | 37.3 (6.1-58.1) | 42.1 (41.3-42.8) |
| >0-4.9 | 69.9 (67.9-71.9) | 60.7 (58.7-62.7) | 67.3 (65.6-69.0) | 60.7 (58.2-63.0) | 51.2 (9.0-73.9) | 65.0 (63.6-66.4) |
| 5.0-14.9 | 73.3 (71.7-74.8) | 66.4 (64.8-68.0) | 72.2 (70.8-73.5) | 65.3 (63.2-67.2) | 38.2 (20.5-51.9) | 69.9 (68.7-71.0) |
| 15.0-24.9 | 81.0 (77.5-84.0) | 74.9 (71.2-78.1) | 78.7 (75.7-81.4) | 76.1 (71.5-80.0) | 29.8 (0.0-51.1) | 77.9 (75.5-80.2) |
| ≥25.0 | 86.0 (81.5-89.5) | 77.1 (72.2-81.2) | 83.8 (79.9-87.0) | 76.6 (70.4-81.5) | 18.2 (0.0-38.1) | 81.6 (78.3-84.3) |
| Cumulative dose in last year, mg | | | | | | |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|--------------------|------------------|
| nonuse (ref) | 35.5 (34.3-36.6) | 30.5 (29.6-31.5) | 34.1 (33.1-35.1) | 30.3 (29.2-31.4) | 42.9 (0.0-69.0) | 32.6 (31.8-33.3) |
| >0-959.9 | 74.5 (72.3-76.5) | 75.2 (73.0-77.2) | 75.0 (73.1-76.7) | 74.6 (71.9-77.1) | 36.9 (19.4-50.6) | 74.9 (73.4-76.3) |
| 960.0-3,054.9 | 84.7 (83.2-86.2) | 84.1 (82.6-85.5) | 85.4 (84.1-86.6) | 82.5 (80.6-84.3) | 38.1 (8.6-58.1) | 84.5 (83.4-85.5) |
| ≥3,055.0 | 93.7 (91.3-95.4) | 91.6 (89.1-93.5) | 92.8 (90.8-94.4) | 92.4 (89.4-94.6) | 55.9 (12.4-77.8) | 92.7 (91.0-94.0) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 62.5 (59.9-64.9) | 56.1 (54.1-58.1) | 61.2 (59.1-63.3) | 55.4 (52.9-57.7) | 34.0 (10.2- 51.5) | 58.7 (57.1-60.2) |
| >0-959.9 | 68.4 (66.0-70.6) | 57.3 (55.1-59.4) | 66.4 (64.4-68.3) | 55.7 (53.0-58.3) | 100.0 (NA- NA) | 62.3 (60.7-63.9) |
| 960.0-3,054.9 | 65.1 (63.4-66.6) | 58.3 (56.7-59.9) | 64.6 (63.2-65.9) | 56.1 (54.1-58.0) | 23.8 (10.3- 35.3) | 61.8 (60.6-62.9) |
| 3,055.0-7,299.9 | 57.7 (56.2-59.2) | 52.9 (51.4-54.3) | 57.0 (55.7-58.3) | 52.0 (50.2-53.7) | 34.7 (8.6- 53.3) | 55.2 (54.1-56.2) |
| ≥7,300.0 | 41.3 (39.3-43.2) | 32.2 (30.6-33.8) | 38.6 (37.0-40.2) | 32.0 (30.0-33.9) | 31.2 (0.0- 61.9) | 36.1 (34.8-37.3) |
| Cumulative probability (95% CI) at 10 years | | | | | | |
| | 81.2 (80.1-82.2) | 73.9 (73.1-74.7) | 79.4 (78.6-80.1) | 73.0 (72.0-74.0) | 39.8 (24.7-51.9) | 76.9 (76.2-77.5) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 72.7 (71.0-74.3) | 65.4 (64.2-66.5) | 70.8 (69.6-72.0) | 64.3 (62.8-65.7) | 37.3 (6.1-58.1) | 68.0 (67.0-68.9) |
| >0-4.9 | 86.9 (84.4-89.0) | 82.3 (80.2-84.1) | 85.5 (83.6-87.3) | 82.3 (79.7-84.5) | 51.2 (9.0-73.9) | 84.4 (82.9-85.8) |
| 5.0-14.9 | 90.8 (88.9-92.3) | 87.0 (85.5-88.4) | 89.9 (88.4-91.1) | 86.4 (84.3-88.2) | 38.2 (20.5-51.9) | 88.7 (87.6-89.7) |
| 15.0-24.9 | 94.6 (90.7-96.9) | 90.4 (86.8-93.0) | 93.1 (90.0-95.2) | 90.8 (86.2-93.9) | 29.8 (0.0-51.1) | 92.3 (89.9-94.2) |
| ≥25.0 | 93.0 (88.0-95.9) | 92.5 (88.1-95.2) | 92.1 (88.4-94.6) | 96.3 (89.7-98.7) | 18.2 (0.0-38.1) | 93.1 (90.1-95.2) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 68.2 (66.4-70.0) | 59.5 (58.3-60.7) | 65.8 (64.5-67.1) | 58.3 (56.8-59.8) | 42.9 (0.0-69.0) | 62.5 (61.5-63.5) |
| >0-959.9 | 88.7 (85.9-90.8) | 88.3 (86.3-90.1) | 88.5 (86.4-90.2) | 88.7 (86.0-90.9) | 36.9 (19.4-50.6) | 88.7 (87.1-90.1) |
| 960.0-3,054.9 | 92.7 (90.8-94.2) | 93.0 (91.7-94.1) | 93.0 (91.7-94.2) | 92.9 (91.1-94.3) | 38.1 (8.6-58.1) | 93.1 (92.1-94.0) |
| ≥3,055.0 | 96.6 (94.0-98.1) | 97.4 (95.1-98.6) | 96.6 (94.3-98.0) | 97.7 (95.1-98.9) | 55.9 (12.4-77.8) | 97.2 (95.7-98.2) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 84.2 (80.4-87.2) | 77.3 (75.1-79.2) | 82.2 (79.8-84.4) | 76.0 (73.3-78.4) | 34.0 (10.2- 51.5) | 79.3 (77.5-80.9) |
| >0-959.9 | 87.4 (84.5-89.8) | 78.5 (76.2-80.7) | 86.2 (84.0-88.1) | 76.1 (73.1-78.8) | 100.0 (NA-NA) | 82.2 (80.4-83.8) |
| 960.0-3,054.9 | 85.1 (83.0-86.9) | 78.3 (76.5-79.9) | 84.1 (82.6-85.6) | 76.3 (74.0-78.3) | 23.8 (10.3-35.3) | 81.3 (80.1-82.5) |
| 3,055.0-7,299.9 | 78.7 (76.6-80.5) | 74.1 (72.5-75.6) | 77.7 (76.1-79.1) | 73.4 (71.4-75.3) | 34.7 (8.6-53.3) | 76.1 (74.8-77.2) |
| ≥7,300.0 | 73.1 (70.4-75.5) | 64.0 (62.1-65.8) | 69.6 (67.7-71.5) | 64.0 (61.6-66.3) | 31.2 (0.0-61.9) | 67.4 (65.9-68.8) |
| Bacterial infections | | | | | | |
| Incident infections, n (%) | 2558 | 2676 | 3514 | 1720 | 12 | 5222 |
| Cumulative probability (95% CI) at 1 year | | | | | | |
| | 3.7 (3.5-4.0) | 2.6 (2.4-2.9) | 3.5 (3.3-3.7) | 2.5 (2.3-2.8) | 3.9 (1.4-6.4) | 3.2 (3.0-3.3) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 2.7 (2.3-3.1) | 1.6 (1.3-1.8) | 2.4 (2.1-2.7) | 1.5 (1.2-1.8) | 2.5 (0.0-5.8) | 2.1 (1.8-2.3) |

| | | | | | | |
|---|------------------|------------------|------------------|------------------|-----------------|------------------|
| >0-4.9 | 3.6 (3.0-4.2) | 3.2 (2.7-3.8) | 3.9 (3.3-4.4) | 2.6 (2.0-3.2) | 8.0 (0.1-15.3) | 3.4 (3.0-3.8) |
| 5.0-14.9 | 4.0 (3.5-4.6) | 2.9 (2.4-3.3) | 3.6 (3.2-4.1) | 3.1 (2.6-3.7) | 2.4 (0.0- 5.7) | 3.5 (3.1-3.8) |
| 15.0-24.9 | 7.5 (6.0-9.1) | 5.1 (3.8-6.4) | 7.3 (5.9-8.7) | 4.7 (3.2-6.2) | 7.7 (0.0-21.1) | 6.3 (5.3-7.4) |
| ≥25.0 | 7.1 (4.8-9.3) | 8.9 (6.1-11.6) | 7.2 (5.2-9.2) | 9.3 (6.0-12.4) | 0.0 (0.0- 0.0) | 8.0 (6.2-9.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.8 (0.7-1.0) | 0.6 (0.5-0.7) | 0.8 (0.7-0.9) | 0.6 (0.4-0.7) | 1.9 (0.0-4.6) | 0.7 (0.6-0.8) |
| >0-959.9 | 11.8 (10.0-13.5) | 10.8 (8.8-12.8) | 11.6 (10.0-13.2) | 10.9 (8.4-13.3) | 8.7 (0.1-16.4) | 11.4 (10.1-12.8) |
| 960.0-3,054.9 | 16.7 (14.9-18.4) | 17.8 (15.6-19.9) | 17.2 (15.5-18.8) | 17.1 (14.5-19.5) | 5.0 (0.0-10.6) | 17.4 (16.0-18.7) |
| ≥3,055.0 | 21.7 (17.8-25.5) | 25.6 (20.5-30.4) | 24.1 (20.3-27.7) | 21.4 (15.9-26.6) | 0.0 (0.0-0.0) | 23.5 (20.4-26.5) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 4.7 (3.8-5.5) | 2.7 (2.2-3.3) | 4.2 (3.5-4.9) | 2.6 (2.0-3.2) | 6.7 (0.0-15.2) | 3.5 (3.0-4.0) |
| >0-959.9 | 7.0 (5.9-8.1) | 3.9 (3.2-4.7) | 6.3 (5.4-7.2) | 3.8 (2.9-4.7) | 14.1 (0.2-26.1) | 5.3 (4.6-5.9) |
| 960.0-3,054.9 | 4.4 (3.9-4.9) | 3.6 (3.1-4.1) | 4.3 (3.8-4.7) | 3.5 (3.0-4.1) | 2.3 (0.0-5.4) | 4.0 (3.7-4.4) |
| 3,055.0-7,299.9 | 2.0 (1.6-2.3) | 1.5 (1.2-1.8) | 1.9 (1.6-2.2) | 1.4 (1.1-1.8) | 1.5 (0.0-4.4) | 1.8 (1.5-2.0) |
| ≥7,300.0 | 1.0 (0.3-1.7) | 0.4 (0.0-0.8) | 0.8 (0.2-1.3) | 0.4 (0.0-0.9) | 0.0 (0.0-0.0) | 0.6 (0.2-1.0) |
| Cumulative probability (95% CI) at 5 years | | | | | | |
| | 13.9 (13.3-14.5) | 9.7 (9.2-10.1) | 13.1 (12.6-13.6) | 9.1 (8.6-9.7) | 6.2 (2.6-9.7) | 11.6 (11.2-12.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 8.9 (8.2-9.5) | 6.5 (6.1-7.0) | 8.7 (8.1-9.2) | 5.9 (5.3-6.4) | 7.4 (0.7-13.7) | 7.5 (7.1-7.9) |
| >0-4.9 | 21.0 (19.1-22.9) | 13.5 (12.0-14.9) | 19.0 (17.5-20.5) | 12.9 (11.1-14.7) | 8.0 (0.1-15.3) | 17.0 (15.8-18.1) |
| 5.0-14.9 | 20.6 (18.9-22.2) | 14.9 (13.5-16.2) | 19.2 (17.8-20.5) | 14.6 (13.0-16.2) | 3.0 (0.0-6.9) | 17.6 (16.6-18.7) |
| 15.0-24.9 | 24.2 (20.0-28.2) | 22.9 (18.8-26.7) | 23.4 (19.9-26.8) | 24.3 (19.2-29.1) | 9.1 (0.0-24.6) | 23.7 (20.8-26.5) |
| ≥25.0 | 32.3 (25.5-38.5) | 25.0 (19.2-30.3) | 28.0 (22.5-33.0) | 29.3 (21.7-36.2) | 0.0 (0.0-0.0) | 28.5 (24.1-32.6) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 5.9 (5.4-6.4) | 4.2 (3.9-4.6) | 5.7 (5.2-6.1) | 3.9 (3.5-4.3) | 8.2 (0.0-15.8) | 4.9 (4.6-5.2) |
| >0-959.9 | 24.2 (21.7-26.7) | 23.7 (20.9-26.5) | 24.3 (22.1-26.5) | 23.3 (19.8-26.7) | 10.6 (1.0-19.2) | 24.0 (22.1-25.8) |
| 960.0-3,054.9 | 33.5 (30.8-36.1) | 32.8 (30.0-35.5) | 34.8 (32.4-37.1) | 29.4 (26.3-32.4) | 3.4 (0.0-7.1) | 33.2 (31.3-35.1) |
| ≥3,055.0 | 53.1 (46.1-59.3) | 47.2 (40.3-53.3) | 49.3 (43.6-54.5) | 53.0 (43.4-61.0) | 0.0 (0.0-0.0) | 50.4 (45.6-54.8) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 15.5 (13.4-17.4) | 10.4 (9.1-11.7) | 14.8 (13.2-16.5) | 9.3 (7.8-10.7) | 20.0 (0.0-36.7) | 12.3 (11.2-13.4) |
| >0-959.9 | 18.1 (16.0-20.1) | 11.2 (9.8-12.7) | 16.3 (14.7-18.0) | 10.9 (9.2-12.6) | 16.5 (0.1-30.2) | 14.2 (12.9-15.4) |
| 960.0-3,054.9 | 17.0 (15.6-18.4) | 12.3 (11.1-13.4) | 16.5 (15.4-17.7) | 11.0 (9.7-12.2) | 2.7 (0.0-6.3) | 14.6 (13.7-15.5) |
| 3,055.0-7,299.9 | 13.5 (12.4-14.5) | 10.4 (9.5-11.3) | 12.9 (12.0-13.8) | 10.0 (9.0-11.1) | 2.9 (0.0-6.9) | 11.9 (11.2-12.6) |
| ≥7,300.0 | 9.0 (8.0-10.0) | 5.9 (5.2-6.6) | 8.2 (7.5-9.0) | 5.5 (4.7-6.4) | 0.0 (0.0-0.0) | 7.2 (6.6-7.8) |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|-----------------|------------------|
| Cumulative probability (95% CI) at 10 years | 25.6 (24.4-26.8) | 18.1 (17.4-18.8) | 23.5 (22.7-24.3) | 17.3 (16.5-18.2) | 6.2 (2.6-9.7) | 21.0 (20.4-21.6) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 19.0 (17.7-20.3) | 13.7 (12.9-14.5) | 17.4 (16.5-18.4) | 13.2 (12.2-14.1) | 7.4 (0.7-13.7) | 15.6 (15.0-16.3) |
| >0-4.9 | 37.2 (33.3-40.9) | 23.9 (21.6-26.2) | 33.6 (30.8-36.3) | 22.0 (19.2-24.7) | 8.0 (0.1-15.3) | 29.2 (27.2-31.1) |
| 5.0-14.9 | 34.4 (31.4-37.2) | 27.3 (25.0-29.5) | 32.8 (30.5-35.1) | 26.6 (23.7-29.3) | 3.0 (0.0-6.9) | 30.6 (28.8-32.4) |
| 15.0-24.9 | 38.3 (29.5-46.0) | 34.3 (28.4-39.8) | 37.5 (31.0-43.4) | 33.7 (26.6-40.2) | 9.1 (0.0-24.6) | 35.9 (31.2-40.2) |
| ≥25.0 | 48.6 (35.0-59.3) | 42.2 (32.6-50.4) | 44.6 (34.9-52.8) | 46.9 (33.9-57.3) | 0.0 (0.0-0.0) | 45.6 (38.0-52.2) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 16.2 (14.9-17.4) | 11.0 (10.3-11.7) | 14.4 (13.5-15.3) | 10.6 (9.7-11.4) | 8.2 (0.0-15.8) | 12.7 (12.1-13.4) |
| >0-959.9 | 33.8 (29.6-37.8) | 32.0 (28.4-35.5) | 34.8 (31.2-38.2) | 30.1 (25.7-34.2) | 10.6 (1.0-19.2) | 33.1 (30.4-35.7) |
| 960.0-3,054.9 | 42.7 (38.0-47.1) | 40.7 (37.2-43.9) | 42.7 (39.3-45.9) | 39.7 (35.0-44.1) | 3.4 (0.0-7.1) | 41.8 (39.1-44.4) |
| ≥3,055.0 | 56.6 (48.8-63.2) | 50.9 (42.2-58.3) | 56.7 (48.7-63.4) | 49.8 (40.0-57.9) | 0.0 (0.0-0.0) | 54.4 (48.4-59.7) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 30.3 (25.1-35.1) | 19.2 (17.0-21.4) | 27.8 (24.5-31.0) | 16.8 (14.3-19.2) | 20.0 (0.0-36.7) | 22.2 (20.2-24.2) |
| >0-959.9 | 28.9 (25.2-32.4) | 18.5 (16.3-20.7) | 26.6 (23.8-29.3) | 17.1 (14.6-19.6) | 16.5 (0.1-30.2) | 22.6 (20.7-24.4) |
| 960.0-3,054.9 | 29.0 (26.3-31.6) | 20.8 (19.0-22.6) | 27.5 (25.5-29.5) | 18.8 (16.7-20.9) | 2.7 (0.0-6.3) | 24.2 (22.8-25.7) |
| 3,055.0-7,299.9 | 23.1 (21.0-25.2) | 19.3 (17.8-20.7) | 21.6 (20.0-23.0) | 19.6 (17.8-21.4) | 2.9 (0.0-6.9) | 21.0 (19.8-22.2) |
| ≥7,300.0 | 22.1 (20.1-24.0) | 14.6 (13.4-15.7) | 19.5 (18.1-20.9) | 14.2 (12.7-15.6) | 0.0 (0.0-0.0) | 17.4 (16.4-18.4) |
| Viral infections | | | | | | |
| Incident infections, n (%) | 2561 | 2783 | 3448 | 1896 | 10 | 5334 |
| Cumulative probability (95% CI) at 1 year | 4.4 (4.1-4.7) | 3.2 (2.9-3.4) | 4.1 (3.8-4.3) | 3.2 (2.9-3.5) | 3.2 (0.8-5.5) | 3.8 (3.6-4.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 2.8 (2.4-3.2) | 2.1 (1.8-2.4) | 2.6 (2.3-2.9) | 2.2 (1.8-2.6) | 2.4 (0.0-5.7) | 2.5 (2.2-2.7) |
| >0-4.9 | 4.0 (3.4-4.7) | 3.1 (2.5-3.6) | 3.8 (3.3-4.3) | 3.1 (2.4-3.8) | 0.0 (0.0-0.0) | 3.6 (3.2-4.0) |
| 5.0-14.9 | 5.5 (4.9-6.1) | 3.7 (3.2-4.2) | 5.0 (4.5-5.4) | 4.0 (3.4-4.6) | 3.8 (0.0-7.9) | 4.6 (4.2-5.0) |
| 15.0-24.9 | 7.5 (6.0-9.1) | 6.9 (5.4-8.5) | 8.3 (6.8-9.7) | 5.4 (3.8-6.9) | 15.4 (0.0-32.9) | 7.2 (6.1-8.3) |
| ≥25.0 | 8.4 (6.0-10.8) | 7.4 (4.8-9.8) | 8.1 (5.9-10.3) | 7.7 (4.7-10.6) | 0.0 (0.0-0.0) | 8.0 (6.2-9.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.9 (0.7-1.0) | 0.7 (0.6-0.9) | 0.8 (0.7-0.9) | 0.8 (0.7-1.0) | 1.0 (0.0-2.9) | 0.8 (0.7-0.9) |
| >0-959.9 | 14.2 (12.3-16.0) | 13.6 (11.4-15.7) | 13.8 (12.1-15.4) | 14.3 (11.6-16.9) | 2.2 (0.0-6.3) | 14.1 (12.7-15.5) |
| 960.0-3,054.9 | 18.5 (16.7-20.3) | 18.5 (16.3-20.6) | 19.0 (17.3-20.6) | 17.4 (14.9-19.8) | 6.4 (0.0-12.4) | 18.7 (17.3-20.1) |
| ≥3055.0 | 24.0 (20.1-27.6) | 28.3 (23.3-32.9) | 26.0 (22.3-29.5) | 25.3 (19.9-30.4) | 6.7 (0.0-18.5) | 26.0 (22.9-28.9) |
| Total cumulative dose, mg | | | | | | |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|-----------------|------------------|
| nonuse (ref) | 4.9 (4.1-5.8) | 3.3 (2.7-3.9) | 4.3 (3.6-4.9) | 3.6 (2.9-4.3) | 3.3 (0.0-9.5) | 4.0 (3.5-4.5) |
| >0-959.9 | 8.9 (7.7-10.1) | 5.2 (4.3-6.1) | 7.8 (6.8-8.7) | 5.4 (4.3-6.5) | 3.6 (0.0-10.2) | 6.9 (6.2-7.7) |
| 960.0-3,054.9 | 5.1 (4.6-5.7) | 3.9 (3.4-4.4) | 4.8 (4.4-5.3) | 3.9 (3.3-4.5) | 3.4 (0.0-7.2) | 4.5 (4.2-4.9) |
| 3,055.0-7,299.9 | 2.3 (2.0-2.7) | 2.0 (1.6-2.3) | 2.3 (2.0-2.6) | 1.8 (1.4-2.2) | 2.7 (0.0-6.4) | 2.1 (1.9-2.4) |
| ≥7,300.0 | 1.3 (0.4-2.1) | 1.2 (0.5-1.9) | 1.5 (0.7-2.2) | 0.7 (0.0-1.5) | 0.0 (0.0-0.0) | 1.2 (0.7-1.8) |
| Cumulative probability (95% CI) at 5 years | 14.8 (14.2-15.4) | 11.6 (11.1-12.1) | 13.9 (13.4-14.4) | 11.8 (11.1-12.4) | 10.1 (0.0-20.0) | 13.1 (12.7-13.5) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 9.6 (9.0-10.3) | 8.2 (7.7-8.7) | 9.2 (8.6-9.7) | 8.3 (7.6-8.9) | 13.0 (0.0-31.1) | 8.8 (8.4- 9.2) |
| >0-4.9 | 20.8 (18.8-22.6) | 14.9 (13.3-16.4) | 18.5 (17.0-20.0) | 16.0 (14.0-17.9) | 5.0 (0.0-14.1) | 17.7 (16.5-18.9) |
| 5.0-14.9 | 22.1 (20.5-23.7) | 18.5 (17.0-20.0) | 21.2 (19.8-22.5) | 18.6 (16.8-20.4) | 7.3 (0.0-14.2) | 20.4 (19.3-21.4) |
| 15.0-24.9 | 27.8 (23.2-32.1) | 22.1 (18.3-25.7) | 25.3 (21.7-28.7) | 23.3 (18.3-28.0) | 16.7 (0.0-35.3) | 24.6 (21.7-27.4) |
| ≥25.0 | 28.8 (22.3-34.8) | 26.0 (19.9-31.6) | 27.3 (21.9-32.3) | 27.8 (20.1-34.9) | 0.0 (0.0- 0.0) | 27.6 (23.2-31.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 6.6 (6.0-7.1) | 5.4 (5.0-5.8) | 6.1 (5.6-6.5) | 5.6 (5.1-6.1) | 18.1 (0.0-42.8) | 5.9 (5.6-6.2) |
| >0-959.9 | 25.1 (22.6-27.5) | 27.4 (24.4-30.2) | 24.3 (22.2-26.5) | 30.0 (26.3-33.5) | 1.9 (0.0-5.4) | 26.2 (24.3-28.0) |
| 960.0-3,054.9 | 33.7 (31.1-36.2) | 36.6 (33.8-39.4) | 35.3 (33.0-37.6) | 34.5 (31.1-37.7) | 7.3 (0.1-14.0) | 35.1 (33.2-37.0) |
| ≥3,055.0 | 49.1 (41.9-55.5) | 46.7 (40.1-52.5) | 48.3 (42.6-53.3) | 46.4 (37.1-54.2) | 12.7 (0.0-28.2) | 47.8 (43.1-52.1) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 15.7 (13.7-17.6) | 13.3 (11.9-14.8) | 14.6 (13.0-16.2) | 13.9 (12.2-15.6) | 3.3 (0.0-9.5) | 14.4 (13.2-15.5) |
| >0-959.9 | 20.1 (18.0-22.2) | 14.7 (13.1-16.4) | 18.6 (16.9-20.3) | 14.9 (12.9-16.9) | 4.3 (0.0-12.3) | 17.2 (15.9-18.5) |
| 960.0-3,054.9 | 17.6 (16.2-18.9) | 14.6 (13.4-15.8) | 17.0 (15.8-18.2) | 14.3 (12.8-15.7) | 4.0 (0.0-8.4) | 16.1 (15.2-17.0) |
| 3,055.0-7,299.9 | 15.3 (14.2-16.5) | 12.2 (11.2-13.2) | 14.3 (13.4-15.3) | 12.6 (11.4-13.8) | 17.6 (0.0-37.0) | 13.7 (13.0-14.4) |
| ≥7,300.0 | 8.6 (7.7-9.6) | 6.5 (5.7-7.2) | 8.2 (7.4-9.0) | 6.1 (5.2-7.0) | 0.0 (0.0-0.0) | 7.4 (6.8-8.0) |
| Cumulative probability (95% CI) at 10 years | 24.1 (23.0-25.2) | 19.2 (18.5-20.0) | 22.5 (21.7-23.3) | 19.3 (18.4-20.2) | 10.1 (0.0-20.0) | 21.2 (20.6-21.8) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 17.7 (16.5-18.9) | 14.8 (14.0-15.6) | 16.6 (15.7-17.5) | 15.0 (14.0-16.0) | 13.0 (0.0-31.1) | 15.9 (15.2-16.6) |
| >0-4.9 | 32.8 (29.3-36.2) | 24.3 (21.9-26.6) | 30.0 (27.4-32.6) | 24.6 (21.7-27.3) | 5.0 (0.0-14.1) | 27.9 (26.0-29.8) |
| 5.0-14.9 | 33.6 (30.5-36.6) | 28.8 (26.6-31.0) | 31.6 (29.3-33.7) | 29.6 (26.7-32.3) | 7.3 (0.0-14.2) | 31.0 (29.2-32.7) |
| 15.0-24.9 | 41.1 (31.3-49.4) | 37.0 (30.8-42.7) | 39.9 (33.1-46.1) | 35.8 (28.0-42.7) | 16.7 (0.0-35.3) | 38.2 (33.2-42.8) |
| ≥25.0 | 40.5 (29.2-50.0) | 37.9 (29.1-45.6) | 43.1 (33.5-51.3) | 33.2 (23.6-41.6) | 0.0 (0.0-0.0) | 39.4 (32.6-45.6) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 15.0 (13.8-16.1) | 12.0 (11.3-12.7) | 13.7 (12.9-14.6) | 12.3 (11.4-13.1) | 18.1 (0.0-42.8) | 13.1 (12.5-13.7) |
| >0-959.9 | 33.2 (28.9-37.3) | 32.8 (29.3-36.2) | 33.4 (29.9-36.7) | 32.8 (28.3-37.0) | 1.9 (0.0-5.4) | 33.2 (30.5-35.8) |

| | | | | | | |
|---|------------------|------------------|------------------|------------------|-----------------|------------------|
| 960.0-3,054.9 | 39.5 (35.1-43.7) | 40.9 (37.4-44.1) | 40.1 (36.8-43.2) | 41.1 (36.3-45.5) | 7.3 (0.1-14.0) | 40.5 (37.8-43.1) |
| ≥3,055.0 | 56.3 (41.9-67.2) | 47.5 (39.4-54.5) | 48.6 (40.2-55.8) | 51.6 (40.3-60.7) | 12.7 (0.0-28.2) | 50.7 (43.9-56.7) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 25.3 (21.8-28.7) | 22.2 (19.9-24.3) | 23.9 (21.2-26.6) | 22.8 (20.1-25.3) | 3.3 (0.0-9.5) | 23.4 (21.5-25.3) |
| >0-959.9 | 27.5 (23.8-31.0) | 24.0 (21.5-26.5) | 27.6 (24.8-30.4) | 23.2 (20.2-26.1) | 4.3 (0.0-12.3) | 25.8 (23.8-27.8) |
| 960.0-3,054.9 | 26.6 (24.2-29.0) | 21.5 (19.8-23.2) | 25.3 (23.4-27.1) | 21.2 (19.1-23.2) | 4.0 (0.0-8.4) | 23.7 (22.3-25.1) |
| 3,055.0-7,299.9 | 24.1 (22.1-26.0) | 19.6 (18.2-21.0) | 22.4 (20.9-23.9) | 20.2 (18.4-21.9) | 17.6 (0.0-37.0) | 21.6 (20.4-22.7) |
| ≥7,300.0 | 19.2 (17.2-21.1) | 14.4 (13.2-15.6) | 17.5 (16.2-18.9) | 13.9 (12.4-15.3) | 0.0 (0.0- 0.0) | 16.1 (15.1-17.1) |
| Parasitic infections | | | | | | |
| Incident infections, n (%) | 587 | 533 | 766 | 354 | 4 | 1116 |
| Cumulative probability (95% CI) at 1 year | | | | | | |
| | 1.2 (1.1-1.4) | 0.7 (0.5-0.8) | 1.1 (0.9-1.2) | 0.7 (0.5-0.8) | 0.9 (0.0-2.2) | 0.9 (0.8-1.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 0.9 (0.6-1.1) | 0.4 (0.3-0.5) | 0.7 (0.5-0.8) | 0.5 (0.3-0.7) | 1.2 (0.0-3.6) | 0.6 (0.5-0.7) |
| >0-4.9 | 0.9 (0.6-1.2) | 0.7 (0.4-1.0) | 0.8 (0.6-1.1) | 0.7 (0.4-1.0) | 0.0 (0.0-0.0) | 0.8 (0.6-1.0) |
| 5.0-14.9 | 1.4 (1.1-1.7) | 0.9 (0.6-1.1) | 1.4 (1.1-1.6) | 0.7 (0.5-1.0) | 1.5 (0.0-4.4) | 1.1 (0.9-1.3) |
| 15.0-24.9 | 3.0 (2.0-3.9) | 0.9 (0.3-1.5) | 2.6 (1.8-3.4) | 0.9 (0.2-1.5) | 0.0 (0.0-0.0) | 2.0 (1.4-2.6) |
| ≥25.0 | 2.3 (1.0-3.6) | 1.7 (0.4-2.9) | 1.9 (0.8-3.0) | 2.3 (0.6-3.9) | 0.0 (0.0-0.0) | 2.1 (1.1-3.0) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.2 (0.2-0.3) | 0.1 (0.1-0.2) | 0.2 (0.1-0.3) | 0.2 (0.1-0.2) | 1.0 (0.0-2.8) | 0.2 (0.1-0.2) |
| >0-959.9 | 4.5 (3.3-5.6) | 2.3 (1.3-3.3) | 4.1 (3.0-5.1) | 2.4 (1.2-3.7) | 0.0 (0.0-0.0) | 3.7 (2.8-4.5) |
| 960.0-3,054.9 | 5.7 (4.5-6.9) | 5.5 (4.1-6.9) | 5.9 (4.8-7.0) | 5.0 (3.4-6.5) | 2.0 (0.0-5.9) | 5.7 (4.8-6.6) |
| ≥3055.0 | 8.3 (5.7-10.9) | 7.3 (4.1-10.3) | 8.3 (5.9-10.8) | 6.9 (3.4-10.3) | 0.0 (0.0-0.0) | 8.0 (6.0-10.0) |
| Total cumulative dose, mg | | | | | | |
| nonuse | 1.5 (1.0-2.0) | 0.7 (0.4-0.9) | 1.2 (0.8-1.5) | 0.8 (0.5-1.2) | 3.3 (0.0-9.5) | 1.0 (0.8-1.3) |
| >0-959.9 | 2.5 (1.8-3.1) | 0.8 (0.5-1.2) | 2.0 (1.5-2.5) | 0.8 (0.4-1.3) | 0.0 (0.0-0.0) | 1.6 (1.2-2.0) |
| 960.0-3,054.9 | 1.4 (1.1-1.7) | 0.9 (0.7-1.1) | 1.3 (1.0-1.5) | 0.9 (0.6-1.2) | 1.4 (0.0-4.1) | 1.1 (1.0-1.3) |
| 3,055.0-7,299.9 | 0.6 (0.4-0.8) | 0.4 (0.3-0.6) | 0.6 (0.4-0.7) | 0.4 (0.2-0.5) | 0.0 (0.0-0.0) | 0.5 (0.4-0.6) |
| ≥7,300.0 | 0.7 (0.1-1.3) | 0.2 (0.0-0.5) | 0.6 (0.1-1.0) | 0.2 (0.0-0.5) | 0.0 (0.0-0.0) | 0.4 (0.1-0.8) |
| Cumulative probability (95% CI) at 5 years | | | | | | |
| | 3.4 (3.1-3.7) | 2.2 (2.0-2.5) | 3.1 (2.9-3.4) | 2.2 (1.9-2.5) | 2.7 (0.0-5.4) | 2.8 (2.6-3.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 2.2 (1.9-2.6) | 1.6 (1.3-1.8) | 2.0 (1.8-2.3) | 1.6 (1.3-1.9) | 2.9 (0.0-6.9) | 1.9 (1.7-2.0) |
| >0-4.9 | 3.4 (2.6-4.2) | 3.2 (2.5-4.0) | 3.4 (2.7-4.1) | 3.2 (2.2-4.1) | 5.0 (0.0-14.1) | 3.3 (2.7-3.8) |
| 5.0-14.9 | 5.6 (4.7-6.5) | 3.4 (2.8-4.1) | 5.2 (4.4-5.9) | 3.2 (2.4-4.0) | 1.9 (0.0-5.6) | 4.5 (4.0-5.1) |

| | | | | | | |
|--|-----------------|------------------|-----------------|-----------------|----------------|-----------------|
| 15.0-24.9 | 8.6 (5.9-11.2) | 4.3 (2.5-6.1) | 7.7 (5.6-9.8) | 3.6 (1.4-5.8) | 0.0 (0.0-0.0) | 6.5 (4.9-8.0) |
| ≥25.0 | 9.6 (5.2-13.7) | 4.8 (1.9-7.5) | 7.0 (3.9-10.0) | 7.4 (2.8-11.8) | 0.0 (0.0-0.0) | 7.2 (4.6-9.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 1.3 (1.1-1.6) | 1.0 (0.8- 1.2) | 1.2 (1.0-1.4) | 1.0 (0.8-1.2) | 1.6 (0.0-4.8) | 1.1 (1.0-1.3) |
| >0-959.9 | 5.7 (4.5-7.0) | 5.0 (3.6- 6.4) | 6.0 (4.8-7.2) | 4.1 (2.7-5.4) | 3.3 (0.0-9.5) | 5.4 (4.5-6.4) |
| 960.0-3,054.9 | 9.3 (7.6-11.0) | 9.0 (7.2-10.9) | 9.2 (7.7-10.6) | 9.2 (6.7-11.6) | 4.0 (0.0-9.7) | 9.2 (7.9-10.4) |
| ≥3,055.0 | 14.8 (9.7-19.6) | 11.6 (6.9-16.0) | 13.9 (9.8-17.7) | 12.1 (5.0-18.8) | 0.0 (0.0-0.0) | 13.4 (9.9-16.7) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 4.5 (3.3-5.6) | 2.7 (2.0-3.4) | 3.9 (3.0-4.8) | 2.7 (1.9-3.5) | 3.3 (0.0-9.5) | 3.3 (2.7-3.9) |
| >0-959.9 | 5.4 (4.2-6.6) | 2.7 (1.9-3.4) | 4.9 (3.9-5.9) | 2.3 (1.5-3.1) | 0.0 (0.0-0.0) | 3.9 (3.2-4.6) |
| 960.0-3,054.9 | 4.3 (3.6-5.1) | 2.9 (2.3-3.5) | 3.9 (3.3-4.5) | 3.0 (2.3-3.7) | 1.7 (0.0-4.9) | 3.6 (3.1-4.1) |
| 3,055.0-7,299.9 | 3.1 (2.5-3.6) | 2.5 (2.1-3.0) | 3.1 (2.6-3.6) | 2.2 (1.7-2.7) | 3.7 (0.0-8.6) | 2.8 (2.4-3.1) |
| ≥7,300.0 | 1.9 (1.4-2.3) | 1.1 (0.8-1.4) | 1.6 (1.2-1.9) | 1.2 (0.8-1.6) | 0.0 (0.0-0.0) | 1.4 (1.2-1.7) |
| Cumulative probability (95% CI) at 10 years | | | | | | |
| | 5.3 (4.7-5.8) | 3.5 (3.2-3.9) | 4.8 (4.4-5.2) | 3.4 (3.0-3.8) | 2.7 (0.0-5.4) | 4.2 (4.0-4.5) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 3.6 (3.0-4.1) | 2.6 (2.2-2.9) | 3.2 (2.8-3.6) | 2.7 (2.2-3.1) | 2.9 (0.0-6.9) | 3.0 (2.7-3.3) |
| >0-4.9 | 5.5 (4.0-6.9) | 5.2 (4.0-6.3) | 5.4 (4.2-6.5) | 5.2 (3.7-6.6) | 5.0 (0.0-14.1) | 5.3 (4.4-6.2) |
| 5.0-14.9 | 9.3 (7.1-11.4) | 5.2 (4.1-6.2) | 8.5 (7.1-10.0) | 4.0 (3.0-5.0) | 1.9 (0.0-5.6) | 6.8 (5.8-7.8) |
| 15.0-24.9 | 11.8 (5.6-17.7) | 7.8 (4.2-11.2) | 11.7 (7.1-16.1) | 6.1 (2.4-9.6) | 0.0 (0.0-0.0) | 9.7 (6.7-12.5) |
| ≥25.0 | 10.9 (3.9-17.4) | 11.5 (5.5-17.1) | 8.2 (4.3-12.0) | 17.9 (7.3-27.2) | 0.0 (0.0-0.0) | 11.6 (7.0-16.0) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 2.8 (2.4-3.3) | 2.0 (1.7-2.3) | 2.5 (2.1-2.8) | 2.1 (1.7-2.4) | 1.6 (0.0-4.8) | 2.3 (2.0-2.5) |
| >0-959.9 | 6.8 (4.8-8.8) | 6.4 (4.7-8.1) | 6.8 (5.2-8.3) | 6.4 (4.2-8.6) | 3.3 (0.0-9.5) | 6.7 (5.4-7.9) |
| 960.0-3,054.9 | 12.1 (8.4-15.6) | 9.5 (7.4-11.5) | 11.9 (9.3-14.4) | 7.8 (5.6-10.0) | 4.0 (0.0-9.7) | 10.4 (8.6-12.2) |
| ≥3,055.0 | 14.1 (2.4-24.5) | 8.7 (5.8-11.5) | 12.5 (5.4-19.0) | 7.8 (4.5-11.0) | 0.0 (0.0-0.0) | 10.7 (6.5-14.6) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 5.5 (4.0-7.0) | 4.7 (3.6-5.9) | 6.1 (4.5-7.6) | 4.3 (3.0-5.5) | 3.3 (0.0-9.5) | 5.2 (4.2-6.2) |
| >0-959.9 | 8.1 (5.9-10.3) | 4.2 (3.0-5.3) | 7.4 (5.8-9.0) | 3.5 (2.2-4.8) | 0.0 (0.0-0.0) | 5.8 (4.7-6.8) |
| 960.0-3,054.9 | 6.2 (4.9-7.4) | 4.3 (3.4-5.1) | 5.4 (4.5-6.3) | 4.7 (3.6-5.8) | 1.7 (0.0-4.9) | 5.2 (4.5-5.9) |
| 3,055.0-7,299.9 | 4.7 (3.7-5.6) | 3.6 (3.0-4.3) | 4.4 (3.7-5.1) | 3.4 (2.6-4.2) | 3.7 (0.0-8.6) | 4.0 (3.5-4.5) |
| ≥7,300.0 | 3.9 (2.9-4.8) | 2.4 (1.9-2.8) | 3.3 (2.7-3.9) | 2.3 (1.7-2.9) | 0.0 (0.0-0.0) | 2.9 (2.5-3.3) |
| Fungal infections | | | | | | |
| Incident infections, n (%) | 2674 | 2742 | 3497 | 1919 | 9 | 5407 |

| | | | | | | |
|---|------------------|------------------|------------------|------------------|-----------------|------------------|
| Cumulative probability (95% CI) at 1 year | 4.8 (4.5-5.1) | 3.0 (2.8-3.3) | 4.3 (4.0-4.5) | 3.2 (2.9-3.5) | 2.5 (0.5-4.4) | 3.9 (3.7-4.1) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 3.1 (2.7-3.5) | 1.9 (1.6-2.2) | 2.7 (2.3-3.0) | 2.1 (1.7-2.5) | 4.9 (0.1-9.5) | 2.4 (2.2-2.7) |
| >0-4.9 | 4.6 (3.9-5.2) | 3.5 (2.9-4.0) | 4.2 (3.7-4.8) | 3.6 (2.9-4.3) | 4.0 (0.0-9.3) | 4.0 (3.6-4.5) |
| 5.0-14.9 | 5.9 (5.3-6.5) | 3.5 (3.0-4.0) | 5.1 (4.6-5.6) | 4.0 (3.4-4.6) | 0.0 (0.0-0.0) | 4.8 (4.4-5.1) |
| 15.0-24.9 | 8.9 (7.2-10.5) | 5.7 (4.3-7.1) | 8.9 (7.4-10.4) | 4.6 (3.1-6.0) | 0.0 (0.0-0.0) | 7.4 (6.3-8.5) |
| ≥25.0 | 8.5 (6.0-10.9) | 8.5 (5.9-11.1) | 8.7 (6.4-10.9) | 8.2 (5.1-11.2) | 0.0 (0.0-0.0) | 8.6 (6.8-10.4) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 1.0 (0.8-1.2) | 0.7 (0.6-0.9) | 0.9 (0.7-1.0) | 0.8 (0.7-1.0) | 3.0 (0.0-6.2) | 0.8 (0.7-0.9) |
| >0-959.9 | 13.8 (12.0-15.6) | 11.6 (9.6-13.6) | 13.2 (11.6-14.8) | 12.2 (9.8-14.6) | 4.1 (0.0-9.5) | 13.1 (11.7-14.4) |
| 960.0-3,054.9 | 20.8 (18.9-22.7) | 19.6 (17.4-21.7) | 20.5 (18.8-22.2) | 19.8 (17.2-22.3) | 1.3 (0.0-3.9) | 20.6 (19.2-22.1) |
| ≥3,055.0 | 25.2 (21.2-28.9) | 23.0 (18.2-27.6) | 26.4 (22.5-30.0) | 20.1 (15.1-24.8) | 0.0 (0.0-0.0) | 24.6 (21.6-27.6) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 5.7 (4.8-6.6) | 3.4 (2.8-4.0) | 4.8 (4.1-5.5) | 3.7 (3.0-4.5) | 9.9 (0.0-19.9) | 4.3 (3.8-4.8) |
| >0-959.9 | 8.8 (7.6-10.0) | 4.7 (3.9-5.5) | 7.4 (6.5-8.4) | 5.2 (4.1-6.2) | 6.9 (0.0-15.7) | 6.6 (5.9-7.3) |
| 960.0-3,054.9 | 6.1 (5.5-6.7) | 4.2 (3.7-4.7) | 5.6 (5.1-6.1) | 4.4 (3.8-5.1) | 1.1 (0.0-3.1) | 5.2 (4.8-5.6) |
| 3,055.0-7,299.9 | 2.2 (1.9-2.6) | 1.5 (1.2-1.8) | 2.1 (1.8-2.4) | 1.4 (1.0-1.7) | 0.0 (0.0-0.0) | 1.8 (1.6-2.1) |
| ≥7,300.0 | 1.7 (0.7-2.7) | 1.2 (0.4-1.9) | 1.3 (0.6-2.0) | 1.7 (0.6-2.8) | 0.0 (0.0-0.0) | 1.4 (0.8-2.0) |
| Cumulative probability (95% CI) at 5 years | 15.8 (15.2-16.4) | 11.9 (11.4-12.4) | 14.4 (13.9-15.0) | 12.5 (11.8-13.1) | 7.4 (0.2-14.2) | 13.7 (13.3-14.1) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 10.3 (9.6-11.0) | 8.6 (8.1-9.2) | 9.7 (9.2-10.3) | 8.8 (8.2-9.5) | 10.7 (0.0-22.5) | 9.4 (8.9-9.8) |
| >0-4.9 | 21.9 (20.0-23.8) | 15.6 (14.0-17.1) | 19.3 (17.8-20.8) | 17.0 (15.0-18.9) | 11.9 (0.0-22.9) | 18.5 (17.3-19.7) |
| 5.0-14.9 | 23.0 (21.4-24.6) | 17.9 (16.4-19.3) | 20.8 (19.4-22.1) | 19.8 (17.9-21.6) | 0.0 (0.0-0.0) | 20.5 (19.5-21.6) |
| 15.0-24.9 | 31.8 (27.0-36.3) | 23.8 (19.7-27.6) | 29.4 (25.6-33.0) | 24.2 (18.8-29.2) | 0.0 (0.0-0.0) | 27.8 (24.7-30.8) |
| ≥25.0 | 29.5 (23.2-35.2) | 24.1 (18.6-29.3) | 28.0 (22.7-32.9) | 24.2 (17.6-30.3) | 0.0 (0.0-0.0) | 26.8 (22.7-30.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 7.0 (6.4-7.5) | 5.8 (5.3-6.2) | 6.4 (6.0-6.9) | 6.0 (5.56.5) | 13.0 (0.0-27.3) | 6.3 (5.9-6.6) |
| >0-959.9 | 26.2 (23.7-28.5) | 27.3 (24.4-30.1) | 25.4 (23.2-27.6) | 29.6 (26.0-33.0) | 3.6 (0.0-8.5) | 26.8 (24.9-28.6) |
| 960.0-3,054.9 | 36.3 (33.6-38.8) | 37.6 (34.7-40.3) | 36.6 (34.3-38.9) | 37.5 (34.0-40.8) | 5.6 (0.0-11.9) | 37.0 (35.0-38.9) |
| ≥3,055.0 | 47.1 (40.5-52.9) | 43.0 (36.3-49.0) | 43.7 (38.3-48.7) | 48.6 (39.5-56.4) | 0.0 (0.0-0.0) | 45.3 (40.7-49.6) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 16.6 (14.6-18.6) | 14.7 (13.1-16.2) | 16.2 (14.5-17.8) | 14.8 (13.0-16.5) | 9.9 (0.0-19.9) | 15.6 (14.3-16.8) |
| >0-959.9 | 21.0 (18.8-23.1) | 14.2 (12.6-15.9) | 18.8 (17.0-20.5) | 15.0 (13.0-16.9) | 100.0 (NA-NA) | 17.3 (15.9-18.6) |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| 960.0-3,054.9 | 20.5 (19.0-21.9) | 15.6 (14.3-16.8) | 19.2 (18.0-20.4) | 15.9 (14.3-17.4) | 4.2 (0.0-10.2) | 18.1 (17.1-19.0) |
| 3,055.0-7,299.9 | 15.2 (14.1-16.4) | 12.4 (11.4-13.4) | 14.3 (13.4-15.3) | 12.8 (11.6-14.0) | 2.0 (0.0-5.9) | 13.8 (13.1-14.6) |
| ≥7,300.0 | 9.1 (8.1-10.1) | 6.2 (5.5-6.9) | 7.8 (7.1-8.6) | 6.8 (5.9-7.8) | 0.0 (0.0-0.0) | 7.5 (6.9-8.1) |
| Cumulative probability (95% CI) at 10 years | 24.4 (23.3-25.4) | 19.0 (18.3-19.7) | 22.5 (21.7-23.2) | 19.4 (18.5-20.2) | 7.4 (0.2-14.2) | 21.2 (20.6-21.8) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 18.1 (16.9-19.3) | 15.0 (14.2-15.8) | 16.9 (16.0-17.8) | 15.3 (14.3-16.3) | 10.7 (0.0-22.5) | 16.2 (15.5-16.9) |
| >0-4.9 | 33.6 (30.0-37.0) | 25.0 (22.6-27.3) | 30.8 (28.2-33.4) | 25.1 (22.2-27.9) | 11.9 (0.0-22.9) | 28.6 (26.6-30.4) |
| 5.0-14.9 | 32.2 (29.3-35.0) | 26.9 (24.8-29.0) | 29.9 (27.8-31.9) | 28.5 (25.8-31.1) | 0.0 (0.0-0.0) | 29.5 (27.8-31.1) |
| 15.0-24.9 | 40.4 (33.3-46.8) | 32.3 (26.7-37.4) | 39.8 (34.1-45.0) | 29.6 (23.0-35.7) | 0.0 (0.0-0.0) | 36.2 (31.9-40.2) |
| ≥25.0 | 43.0 (30.8-53.1) | 33.0 (25.3-40.0) | 38.1 (29.8-45.4) | 35.0 (24.8-43.9) | 0.0 (0.0-0.0) | 37.0 (30.7-42.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 15.3 (14.2-16.5) | 12.1 (11.4-12.9) | 14.1 (13.2-14.9) | 12.4 (11.5-13.2) | 13.0 (0.0-27.3) | 13.3 (12.7-13.9) |
| >0-959.9 | 33.0 (28.9-36.9) | 32.7 (29.3-36.0) | 32.5 (29.2-35.6) | 33.7 (29.4-37.8) | 3.6 (0.0-8.5) | 33.0 (30.4-35.5) |
| 960.0-3,054.9 | 38.9 (34.6-43.0) | 37.0 (34.0-39.8) | 38.4 (35.4-41.2) | 36.7 (32.8-40.4) | 5.6 (0.0-11.9) | 37.8 (35.5-40.1) |
| ≥3,055.0 | 51.2 (40.3-60.1) | 43.1 (34.7-50.5) | 43.4 (36.7-49.4) | 50.5 (38.9-60.0) | 0.0 (0.0-0.0) | 47.0 (40.6-52.8) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 22.0 (18.8-25.0) | 23.1 (20.9-25.3) | 23.4 (20.9-25.9) | 22.7 (20.1-25.2) | 9.9 (0.0-19.9) | 23.2 (21.4-25.0) |
| >0-959.9 | 30.3 (26.7-33.7) | 22.9 (20.5-25.3) | 28.7 (25.9-31.5) | 22.6 (19.7-25.4) | 100.0 (NA-NA) | 26.1 (24.1-28.1) |
| 960.0-3,054.9 | 29.3 (26.9-31.7) | 23.1 (21.3-24.9) | 27.7 (25.8-29.5) | 23.3 (21.1-25.4) | 4.2 (0.0-10.2) | 26.1 (24.7-27.5) |
| 3,055.0-7,299.9 | 24.1 (22.1-26.1) | 19.6 (18.2-21.0) | 22.2 (20.7-23.7) | 20.3 (18.5-22.1) | 2.0 (0.0-5.9) | 21.6 (20.4-22.7) |
| ≥7,300.0 | 18.2 (16.3-20.1) | 12.9 (11.8-14.0) | 16.0 (14.7-17.3) | 13.1 (11.7-14.5) | 0.0 (0.0-0.0) | 14.8 (13.8-15.8) |

Note: CI, confidence interval; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage.

Supplemental Table 11. Kaplan-Meier estimates of infections per level of current daily and cumulative oral glucocorticoid prednisolone-equivalent dose by use of inhaled, nasogastric and intramuscular glucocorticoids at baseline

| All-cause infection | Non-oral GC use | | | | | |
|---|------------------|------------------|------------------|-------------------|------------------|---------------------|
| | Inhaled GC | No Inhaled GC | Nasogastric GC | No nasogastric GC | Intramuscular GC | No intramuscular GC |
| Incident infections, n (%) | 3324 | 18910 | 2001 | 20233 | 417 | 21817 |
| Cumulative probability (95% CI) at 1 year | 24.9 (23.7-26.1) | 17.3 (16.9-17.7) | 23.9 (22.4-25.4) | 17.8 (17.4-18.2) | 20.1 (17.3-22.9) | 18.3 (17.9-18.6) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 17.1 (15.2-18.8) | 12.4 (11.8-12.9) | 16.9 (14.7-19.0) | 12.6 (12.0-13.1) | 14.5 (10.3-18.5) | 12.9 (12.3-13.4) |
| >0-4.9 | 24.9 (22.3-27.5) | 16.9 (16.0-17.8) | 25.7 (22.2-29.0) | 17.3 (16.4-18.2) | 16.3 (10.5-21.7) | 18.0 (17.1-18.9) |
| 5.0-14.9 | 27.7 (25.5-29.8) | 20.0 (19.2-20.8) | 26.0 (23.3-28.6) | 20.6 (19.9-21.4) | 23.7 (18.4-28.6) | 21.0 (20.3-21.8) |
| 15.0-24.9 | 37.2 (31.8-42.1) | 29.2 (27.2-31.2) | 31.9 (25.3-38.0) | 30.2 (28.3-32.1) | 32.8 (19.4-43.9) | 30.3 (28.4-32.1) |
| ≥25.0 | 44.7 (37.8-50.8) | 33.4 (30.2-36.5) | 50.0 (39.8-58.5) | 34.2 (31.1-37.1) | 38.6 (17.7-54.1) | 35.8 (32.8-38.6) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 5.7 (4.9-6.5) | 5.0 (4.7-5.3) | 6.5 (5.4-7.6) | 4.9 (4.7-5.2) | 5.3 (3.3-7.3) | 5.1 (4.8-5.3) |
| >0-959.9 | 46.1 (42.1-49.8) | 37.5 (35.8-39.2) | 47.3 (42.2-51.9) | 38.0 (36.3-39.6) | 41.1 (29.7-50.7) | 38.9 (37.3-40.4) |
| 960.0-3,054.9 | 56.6 (53.3-59.6) | 47.7 (46.3-49.1) | 52.3 (48.1-56.3) | 48.8 (47.4-50.2) | 47.0 (39.0-54.1) | 49.2 (47.9-50.5) |
| ≥3,055.0 | 58.9 (53.2-63.9) | 60.5 (57.9-63.0) | 60.4 (52.5-66.9) | 60.2 (57.7-62.5) | 36.3 (19.9-49.3) | 60.7 (58.4-63.0) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 28.4 (24.6-32.0) | 19.8 (18.7-20.8) | 26.8 (22.5-30.9) | 20.1 (19.1-21.2) | 26.8 (17.4-35.2) | 20.5 (19.5-21.5) |
| >0-959.9 | 37.1 (33.6-40.4) | 27.5 (26.2-28.9) | 42.4 (37.7-46.8) | 27.7 (26.3-29.0) | 34.8 (24.7-43.6) | 28.9 (27.6-30.2) |
| 960.0-3,054.9 | 30.9 (28.7-33.0) | 20.5 (19.7-21.2) | 27.1 (24.4-29.7) | 21.4 (20.7-22.2) | 25.4 (20.5-30.0) | 21.8 (21.1-22.5) |
| 3,055.0-7,299.9 | 13.8 (12.1-15.4) | 9.7 (9.1-10.2) | 12.4 (10.3-14.3) | 10.0 (9.5-10.6) | 6.0 (3.0-8.9) | 10.3 (9.8-10.8) |
| ≥7,300.0 | 7.9 (4.0-11.7) | 7.4 (5.8-8.9) | 7.9 (2.1-13.3) | 7.4 (5.9-8.9) | 12.1 (0.2-22.6) | 7.3 (5.9-8.8) |
| Cumulative probability (95% CI) at 5 years | 66.3 (64.8-67.8) | 52.9 (52.3-53.6) | 64.1 (62.1-66.0) | 53.9 (53.3-54.4) | 59.4 (54.9-63.4) | 54.6 (54.0-55.2) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 51.5 (49.0-53.9) | 41.0 (40.2-41.8) | 51.2 (48.2-54.0) | 41.4 (40.6-42.2) | 44.1 (37.9-49.7) | 42.0 (41.3-42.8) |
| >0-4.9 | 75.0 (71.3-78.2) | 63.3 (61.7-64.8) | 70.7 (65.9-74.9) | 64.5 (62.9-65.9) | 71.7 (58.8-80.5) | 64.9 (63.4-66.3) |
| 5.0-14.9 | 76.7 (73.9-79.2) | 68.5 (67.3-69.8) | 77.3 (73.4-80.5) | 69.1 (67.9-70.3) | 76.7 (67.3-83.4) | 69.7 (68.6-70.8) |
| 15.0-24.9 | 81.3 (75.0-86.0) | 77.2 (74.4-79.7) | 84.0 (74.9-89.8) | 77.3 (74.7-79.7) | 88.5 (36.7-97.9) | 77.8 (75.3-80.0) |
| ≥25.0 mg | 87.1 (81.1-91.2) | 79.2 (75.2-82.6) | 93.6 (82.2-97.7) | 80.1 (76.6-83.1) | 90.4 (42.9-98.4) | 81.3 (78.0-84.1) |
| Cumulative dose in last year | | | | | | |
| nonuse (ref) | 37.1 (34.6-39.4) | 32.1 (31.3-32.9) | 40.0 (37.0-42.8) | 32.0 (31.3-32.8) | 37.0 (30.7-42.8) | 32.5 (31.8-33.2) |
| >0-959.9 | 81.2 (77.6-84.2) | 73.5 (71.8-75.1) | 80.5 (75.7-84.4) | 74.3 (72.6-75.8) | 64.7 (51.5-74.3) | 75.1 (73.5-76.5) |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|--------------------|------------------|
| 960.0-3,054.9 | 89.7 (87.3-91.6) | 83.4 (82.3-84.5) | 87.8 (84.2-90.5) | 84.1 (83.0-85.2) | 89.3 (80.4- 94.2) | 84.4 (83.3-85.4) |
| ≥3,055.0 | 93.4 (89.7-95.8) | 92.4 (90.5-93.9) | 96.1 (90.1-98.4) | 92.3 (90.5-93.7) | 100.0 (NA- NA) | 92.6 (91.0-93.9) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 73.7 (68.4-78.1) | 57.3 (55.7-58.9) | 69.2 (63.2-74.2) | 57.9 (56.2-59.5) | 60.2 (44.6-71.4) | 58.7 (57.1-60.2) |
| >0-959.9 | 73.6 (69.6-77.1) | 60.4 (58.7-62.1) | 74.6 (69.3-79.0) | 61.2 (59.5-62.8) | 69.8 (56.4-79.1) | 62.2 (60.6-63.8) |
| 960.0-3,054.9 | 74.0 (71.2-76.6) | 59.6 (58.4-60.8) | 74.2 (70.3-77.5) | 60.6 (59.4-61.7) | 61.9 (53.1-69.1) | 61.7 (60.5-62.8) |
| 3,055.0-7,299.9 | 66.6 (63.6-69.4) | 53.6 (52.4-54.7) | 62.5 (58.6-65.9) | 54.5 (53.4-55.6) | 54.9 (46.7-61.8) | 55.2 (54.1-56.2) |
| ≥7,300.0 | 46.5 (42.9-50.0) | 34.4 (33.1-35.7) | 41.3 (36.5-45.7) | 35.6 (34.3-36.9) | 51.3 (39.0-61.2) | 35.8 (34.6-37.1) |
| Cumulative probability (95% CI) at 10 years | | | | | | |
| | 85.9 (84.3-87.3) | 75.6 (74.9-76.2) | 84.0 (81.7-85.9) | 76.3 (75.6-76.9) | 84.8 (76.1-90.4) | 76.8 (76.2-77.4) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 77.2 (74.3-79.8) | 67.0 (66.0-68.0) | 77.0 (73.4-80.1) | 67.3 (66.3-68.3) | 81.0 (67.8-88.8) | 67.9 (66.9-68.8) |
| >0-4.9 | 90.3 (86.5-93.1) | 83.4 (81.7-84.9) | 86.3 (80.8-90.3) | 84.2 (82.6-85.7) | 85.8 (62.4-94.7) | 84.3 (82.8-85.7) |
| 5.0-14.9 | 91.8 (89.3-93.8) | 88.1 (86.8-89.2) | 91.7 (87.3-94.5) | 88.4 (87.2-89.5) | 81.2 (69.0-88.6) | 88.7 (87.6-89.8) |
| 15.0-24.9 | 96.4 (88.8-98.8) | 91.6 (88.8-93.6) | 95.3 (83.8-98.6) | 92.0 (89.4-93.9) | 88.5 (36.7-97.9) | 92.3 (89.8-94.1) |
| ≥25.0 | 94.2 (88.3-97.1) | 92.6 (88.7-95.1) | 95.6 (84.4-98.8) | 92.7 (89.4-95.0) | 100.0 (NA-NA) | 93.0 (90.0-95.1) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 70.4 (67.0-73.5) | 61.8 (60.7-62.8) | 71.8 (67.8-75.3) | 61.9 (60.8-62.9) | 78.2 (63.1-87.1) | 62.4 (61.4-63.4) |
| >0-959.9 | 90.6 (86.9-93.3) | 88.2 (86.4-89.8) | 88.6 (82.4-92.6) | 88.6 (87.0-90.1) | 100.0 (NA-NA) | 88.7 (87.1-90.1) |
| 960.0-3,054.9 | 94.8 (92.5-96.4) | 92.8 (91.6-93.8) | 94.7 (91.1-96.8) | 92.9 (91.8-93.9) | 88.5 (76.8-94.3) | 93.1 (92.1-94.0) |
| ≥3,055.0 | 98.9 (93.4-99.8) | 96.8 (95.0-97.9) | 95.5 (89.2-98.1) | 97.1 (95.5-98.1) | 100.0 (NA-NA) | 97.2 (95.7-98.2) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 89.9 (84.1-93.5) | 78.3 (76.5-80.0) | 85.0 (78.2-89.7) | 78.8 (77.0-80.5) | 92.8 (61.8-98.6) | 79.1 (77.3-80.7) |
| >0-959.9 | 88.3 (83.9-91.5) | 81.1 (79.2-82.9) | 91.1 (84.5-94.9) | 81.3 (79.5-83.0) | 85.0 (65.5-93.5) | 82.1 (80.3-83.7) |
| 960.0-3,054.9 | 90.5 (87.5-92.8) | 79.8 (78.4-81.1) | 87.8 (83.3-91.0) | 80.7 (79.4-82.0) | 100.0 (NA-NA) | 81.2 (79.9-82.4) |
| 3,055.0-7,299.9 | 84.8 (81.3-87.7) | 74.9 (73.6-76.1) | 85.9 (81.0-89.5) | 75.3 (74.1-76.5) | 75.2 (51.8-87.2) | 76.1 (74.9-77.3) |
| ≥7,300.0 | 77.8 (73.9-81.2) | 65.8 (64.2-67.4) | 71.7 (66.0-76.4) | 67.0 (65.5-68.6) | 75.4 (56.6-86.1) | 67.3 (65.8-68.7) |
| Bacterial infections | | | | | | |
| Incident infections, n (%) | 945 | 4289 | 412 | 4822 | 85 | 5149 |
| Cumulative probability (95% CI) at 1 year | | | | | | |
| | 4.9 (4.3-5.5) | 2.9 (2.7-3.1) | 2.9 (2.4-3.5) | 3.2 (3.0-3.4) | 3.3 (2.0-4.5) | 3.2 (3.0-3.3) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 2.9 (2.1- 3.7) | 2.0 (1.7-2.2) | 1.6 (0.9-2.3) | 2.1 (1.9-2.4) | 2.7 (0.8-4.6) | 2.1 (1.8-2.3) |
| >0-4.9 | 5.0 (3.7- 6.3) | 3.2 (2.8-3.6) | 3.2 (1.8-4.6) | 3.5 (3.0-3.9) | 4.3 (1.1-7.4) | 3.4 (3.0-3.8) |
| 5.0-14.9 | 4.8 (3.8- 5.9) | 3.2 (2.9-3.6) | 3.1 (2.0-4.2) | 3.5 (3.2-3.9) | 3.4 (1.2-5.5) | 3.5 (3.1-3.8) |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| 15.0-24.9 | 11.6 (7.9-15.1) | 5.5 (4.4-6.5) | 5.9 (2.5-9.3) | 6.4 (5.3-7.5) | 4.1 (0.0-9.6) | 6.4 (5.3-7.4) |
| ≥25.0 | 12.1 (7.5-16.5) | 6.8 (4.9-8.6) | 12.5 (5.6-18.9) | 7.4 (5.6-9.2) | 0.0 (0.0-0.0) | 8.2 (6.4-9.9) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.8 (0.5-1.1) | 0.7 (0.6-0.8) | 0.4 (0.2-0.7) | 0.7 (0.6-0.8) | 0.5 (0.0-1.0) | 0.7 (0.6-0.8) |
| >0-959.9 | 14.2 (10.5-17.7) | 10.8 (9.4-12.3) | 10.8 (6.2-15.1) | 11.4 (10.0-12.8) | 15.1 (4.0-24.8) | 11.3 (9.9-12.6) |
| 960.0-3,054.9 | 23.0 (19.1-26.8) | 16.0 (14.6-17.5) | 16.1 (11.4-20.6) | 17.2 (15.8-18.6) | 12.4 (5.4-18.9) | 17.3 (15.9-18.7) |
| ≥3,055.0 | 25.1 (18.1-31.5) | 22.7 (19.2-26.1) | 22.0 (11.5-31.2) | 23.4 (20.2-26.6) | 13.3 (0.1-24.7) | 23.6 (20.4-26.6) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 5.8 (3.8-7.8) | 3.3 (2.8-3.8) | 2.4 (0.9-3.8) | 3.6 (3.1-4.1) | 3.3 (0.0- 6.9) | 3.5 (3.0-4.0) |
| >0-959.9 | 6.9 (5.0-8.7) | 5.1 (4.4-5.8) | 5.1 (2.9-7.2) | 5.4 (4.7-6.1) | 7.5 (1.5-13.2) | 5.3 (4.7-6.0) |
| 960.0-3,054.9 | 6.5 (5.3-7.7) | 3.6 (3.3-4.0) | 4.2 (2.9-5.4) | 4.0 (3.6-4.4) | 3.9 (1.7- 6.1) | 4.0 (3.7-4.4) |
| 3,055.0-7,299.9 | 2.9 (2.1-3.6) | 1.6 (1.3-1.8) | 1.6 (0.9-2.3) | 1.8 (1.5-2.0) | 1.1 (0.0- 2.2) | 1.8 (1.5-2.0) |
| ≥7,300.0 | 1.3 (0.0-2.7) | 0.5 (0.1-0.9) | 0.0 (0.0-0.0) | 0.7 (0.3-1.1) | 5.4 (0.0-12.4) | 0.5 (0.2-0.9) |
| Cumulative probability (95% CI) at 5 years | | | | | | |
| | 17.9 (16.6-19.1) | 10.7 (10.3-11.1) | 12.0 (10.7-13.3) | 11.6 (11.2-11.9) | 11.9 (9.0-14.7) | 11.6 (11.2-12.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 10.6 (9.2-12.0) | 7.2 (6.8-7.6) | 7.9 (6.5-9.3) | 7.5 (7.1-7.9) | 8.2 (5.1-11.3) | 7.5 (7.1-7.9) |
| >0-4.9 | 27.1 (23.3-30.8) | 15.2 (14.0-16.4) | 17.6 (13.5-21.6) | 16.9 (15.7-18.1) | 17.5 (7.9-26.0) | 17.0 (15.8-18.1) |
| 5.0-14.9 | 22.8 (19.8-25.7) | 16.6 (15.5-17.7) | 15.9 (12.3-19.3) | 17.8 (16.7-18.8) | 18.4 (10.3-25.7) | 17.6 (16.5-18.6) |
| 15.0-24.9 | 32.0 (24.7-38.5) | 21.7 (18.6-24.8) | 25.7 (15.3-34.9) | 23.5 (20.5-26.4) | 21.1 (0.0-40.0) | 23.8 (20.9-26.6) |
| ≥25.0 | 31.6 (22.8-39.4) | 27.2 (22.1-31.9) | 29.1 (15.0-40.9) | 28.2 (23.6-32.6) | 0.0 (0.0-0.0) | 28.7 (24.3-32.9) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 5.9 (4.9- 6.9) | 4.8 (4.5-5.1) | 5.0 (3.9- 6.1) | 4.9 (4.6- 5.2) | 5.2 (2.6-7.7) | 4.9 (4.6-5.2) |
| >0-959.9 | 29.8 (24.8-34.5) | 22.7 (20.7-24.7) | 24.6 (17.9-30.8) | 23.9 (22.0-25.9) | 16.7 (7.2-25.2) | 24.2 (22.3-26.0) |
| 960.0-3,054.9 | 43.5 (38.3-48.4) | 30.9 (28.9-32.9) | 31.4 (24.3-37.7) | 33.3 (31.3-35.3) | 27.9 (16.7-37.6) | 33.3 (31.3-35.1) |
| ≥3,055.0 | 56.1 (46.3-64.0) | 48.5 (42.8-53.6) | 45.2 (29.8-57.3) | 50.9 (45.8-55.5) | 17.6 (4.8-28.6) | 50.6 (45.8-55.1) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 18.5 (13.4-23.3) | 11.9 (10.7-13.0) | 8.6 (5.0-12.1) | 12.6 (11.5-13.8) | 7.5 (0.0-15.2) | 12.4 (11.3-13.5) |
| >0-959.9 | 18.5 (14.6-22.2) | 13.6 (12.3-14.8) | 15.0 (10.7-19.2) | 14.1 (12.9-15.4) | 17.8 (6.5-27.6) | 14.2 (12.9-15.4) |
| 960.0-3,054.9 | 23.3 (20.3-26.2) | 13.2 (12.3-14.1) | 17.3 (13.8-20.6) | 14.3 (13.4-15.2) | 12.3 (6.2-18.0) | 14.6 (13.7-15.5) |
| 3,055.0-7,299.9 | 18.8 (16.4-21.2) | 10.9 (10.2-11.6) | 13.9 (11.2-16.6) | 11.7 (11.0-12.4) | 12.4 (7.4-17.1) | 11.8 (11.1-12.5) |
| ≥7,300.0 | 11.9 (10.0-13.8) | 6.4 (5.8-7.0) | 6.4 (4.6-8.3) | 7.3 (6.7-7.9) | 9.0 (3.9-13.9) | 7.2 (6.6-7.8) |
| Cumulative probability (95% CI) at 10 years | | | | | | |
| | 31.4 (29.2-33.4) | 19.6 (19.0-20.3) | 22.4 (20.0-24.7) | 20.9 (20.3-21.6) | 23.9 (15.7-31.3) | 21.0 (20.4-21.6) |
| Current daily dose, mg | | | | | | |

| | | | | | | |
|--|-------------------|----------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| nonuse (ref) | 21.2 (18.7-23.6) | 15.0 (14.3-15.7) | 15.3 (12.7-17.7) | 15.7 (15.0-16.4) | 17.5 (7.0-26.9) | 15.6 (14.9-16.3) |
| >0-4.9 | 42.0 (36.1-47.3) | 26.9 (24.8-28.9) | 33.6 (26.3-40.1) | 28.7 (26.6-30.7) | 27.7 (10.2-41.7) | 29.2 (27.2-31.1) |
| 5.0-14.9 | 41.7 (36.1-46.7) | 28.6 (26.7-30.5) | 33.8 (25.8-40.9) | 30.4 (28.5-32.2) | 33.4 (18.7-45.5) | 30.5 (28.7-32.3) |
| 15.0-24.9 | 46.0 (33.8-55.9) | 33.4 (28.2-38.1) | 37.3 (17.8-52.2) | 35.7 (30.8-40.2) | 19.7 (0.0-37.4) | 36.0 (31.3-40.4) |
| ≥25.0 | 61.5 (41.5-74.7) | 40.7 (32.4-48.0) | 39.0 (13.5-57.0) | 46.0 (38.0-53.0) | 40.7 (0.0-74.2) | 45.5 (37.9-52.3) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 16.1 (13.9-18.3) | 12.4 (11.8-13.1) | 12.2 (10.0-14.5) | 12.8 (12.2-13.4) | 12.6 (4.1-20.3) | 12.8 (12.1-13.4) |
| >0-959.9 | 38.2 (31.4-44.4) | 31.9 (28.9-34.8) | 34.1 (24.2-42.8) | 33.0 (30.2-35.7) | 46.9 (0.0-76.5) | 33.1 (30.3-35.7) |
| 960.0-3,054.9 | 56.4 (48.7-63.0) | 38.8 (35.9-41.6) | 51.6 (39.3-61.5) | 40.8 (38.0-43.4) | 38.7 (24.3-50.4) | 41.7 (38.9-44.3) |
| ≥3,055.0 | 64.8 (48.8-75.8) | 51.3 (44.9-57.0) | 48.8 (24.6-65.3) | 54.9 (48.6-60.4) | 36.3 (0.0-64.2) | 54.6 (48.6-59.9) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 38.5 (27.1-48.2) | 21.3 (19.3-23.2) | 19.1 (10.5-26.9) | 22.5 (20.5-24.5) | 39.9 (0.0-67.2) | 22.2 (20.2-24.1) |
| >0-959.9 | 30.1 (23.5-36.2) | 21.6 (19.6-23.5) | 24.4 (17.3-30.9) | 22.4 (20.5-24.4) | 24.1 (7.0-38.0) | 22.5 (20.6-24.4) |
| 960.0-3,054.9 | 34.8 (30.1-39.1) | 22.6 (21.1-24.1) | 24.9 (19.6-29.9) | 24.1 (22.6-25.6) | 12.9 (6.4-18.9) | 24.3 (22.8-25.8) |
| 3,055.0-7,299.9 | 30.9 (26.8-34.7) | 19.6 (18.4-20.8) | 24.2 (19.3-28.8) | 20.7 (19.5-21.9) | 24.0 (5.3-39.0) | 21.0 (19.8-22.1) |
| ≥7,300.0 | 27.4 (24.0-30.7) | 15.8 (14.7-16.9) | 18.7 (14.7-22.5) | 17.3 (16.2-18.3) | 21.6 (11.9-30.2) | 17.3 (16.3-18.3) |
| Viral infections | Inhaled GC | No Inhaled GC | Nasogastric GC | No nasogastric GC | Intramuscular GC | No intramuscular GC |
| Incident infections, n (%) | 934 | 4410 | 552 | 4792 | 111 | 5233 |
| Cumulative probability (95% CI) at 1 year | 5.8 (5.1-6.4) | 3.4 (3.3-3.6) | 5.2 (4.4-5.9) | 3.6 (3.4-3.8) | 5.3 (3.7-6.8) | 3.7 (3.5-3.9) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 3.4 (2.6-4.3) | 2.3 (2.1-2.6) | 3.4 (2.4-4.4) | 2.4 (2.1-2.6) | 4.1 (1.8-6.3) | 2.4 (2.2-2.7) |
| >0-4.9 | 5.6 (4.2-7.0) | 3.3 (2.8-3.7) | 5.1 (3.3-6.9) | 3.4 (3.0-3.9) | 5.4 (1.9-8.7) | 3.5 (3.1-4.0) |
| 5.0-14.9 | 7.2 (6.0-8.5) | 4.2 (3.8-4.6) | 6.1 (4.6-7.6) | 4.5 (4.1-4.9) | 6.4 (3.4-9.3) | 4.6 (4.2-5.0) |
| 15.0-24.9 | 9.2 (6.0-12.4) | 6.9 (5.7-8.0) | 7.5 (3.8-11.1) | 7.2 (6.1-8.3) | 8.8 (0.1-16.6) | 7.2 (6.1-8.3) |
| ≥25.0 | 11.3 (6.7-15.7) | 7.1 (5.2-8.9) | 13.3 (5.9-20.0) | 7.4 (5.6-9.1) | 0.0 (0.0-0.0) | 8.2 (6.4-9.9) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.9 (0.6-1.2) | 0.8 (0.7-0.9) | 1.1 (0.7-1.5) | 0.8 (0.7-0.9) | 1.2 (0.3-2.0) | 0.8 (0.7-0.9) |
| >0-959.9 | 18.5 (14.5-22.3) | 13.0 (11.5-14.5) | 18.2 (13.0-23.1) | 13.5 (12.0-14.9) | 14.6 (4.6-23.6) | 13.9 (12.4-15.3) |
| 960.0-3,054.9 | 24.8 (20.9-28.6) | 17.3 (15.9-18.8) | 21.0 (16.0-25.7) | 18.2 (16.8-19.7) | 16.3 (9.2-22.8) | 18.6 (17.2-20.0) |
| ≥3055.0 | 26.7 (19.8-33.0) | 25.5 (22.1-28.7) | 31.9 (21.2-41.1) | 25.0 (21.9-28.1) | 23.9 (7.8-37.1) | 25.8 (22.8-28.8) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 6.6 (4.4-8.7) | 3.7 (3.2-4.2) | 6.3 (3.9-8.6) | 3.8 (3.3-4.3) | 7.9 (2.1-13.3) | 3.9 (3.4-4.4) |
| >0-959.9 | 9.8 (7.5-11.9) | 6.4 (5.6-7.1) | 10.4 (7.4-13.3) | 6.6 (5.8-7.3) | 9.1 (2.8-15.0) | 6.9 (6.1-7.6) |
| 960.0-3,054.9 | 7.3 (6.0-8.5) | 4.1 (3.7-4.5) | 5.2 (3.9-6.6) | 4.5 (4.1-4.9) | 6.1 (3.4-8.7) | 4.5 (4.1-4.9) |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| 3,055.0-7,299.9 | 3.2 (2.4-4.0) | 2.0 (1.7-2.2) | 3.1 (2.1-4.1) | 2.0 (1.8-2.3) | 2.6 (0.7-4.4) | 2.1 (1.9-2.4) |
| ≥7,300.0 | 1.7 (0.0-3.4) | 1.1 (0.6-1.7) | 1.9 (0.0-4.4) | 1.2 (0.6-1.7) | 2.8 (0.0-8.0) | 1.2 (0.6-1.7) |
| Cumulative probability (95% CI) at 5 years | 19.1 (17.8-20.3) | 12.2 (11.8-12.6) | 16.5 (15.0-18.0) | 12.8 (12.4-13.2) | 16.2 (13.0-19.2) | 13.0 (12.6-13.4) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 12.3 (10.8-13.7) | 8.4 (8.0-8.8) | 11.4 (9.7-13.0) | 8.6 (8.2- 9.0) | 11.0 (7.5-14.4) | 8.8 (8.4-9.2) |
| >0-4.9 | 25.7 (21.9-29.3) | 16.3 (15.0-17.5) | 21.2 (16.8-25.3) | 17.3 (16.1-18.5) | 21.9 (11.4-31.1) | 17.6 (16.3-18.8) |
| 5.0-14.9 | 25.1 (22.2-28.0) | 19.4 (18.2-20.6) | 24.4 (20.3-28.3) | 20.0 (18.8-21.1) | 26.3 (17.5-34.1) | 20.2 (19.1-21.3) |
| 15.0-24.9 | 29.5 (21.8-36.5) | 23.6 (20.5-26.6) | 24.7 (15.0-33.3) | 24.6 (21.6-27.6) | 15.6 (1.8-27.5) | 24.8 (21.9-27.6) |
| ≥25.0 | 35.3 (25.3-43.8) | 24.8 (19.9-29.4) | 35.5 (19.7-48.3) | 26.5 (21.9-30.9) | 10.0 (0.0-26.8) | 27.6 (23.2-31.8) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 6.9 (5.8-8.0) | 5.8 (5.4-6.1) | 7.3 (6.0-8.5) | 5.8 (5.4-6.1) | 7.4 (4.4-10.3) | 5.9 (5.5-6.2) |
| >0-959.9 | 32.3 (27.4-36.7) | 24.7 (22.6-26.7) | 34.5 (27.4-40.9) | 25.2 (23.3-27.1) | 24.4 (10.9-35.9) | 26.2 (24.2-28.0) |
| 960.0-3,054.9 | 41.6 (36.6-46.3) | 33.7 (31.6-35.7) | 35.5 (29.2-41.2) | 35.0 (33.0-36.9) | 29.2 (18.9-38.2) | 35.2 (33.2-37.1) |
| ≥3,055.0 | 53.3 (43.3-61.6) | 46.1 (40.7-51.1) | 56.1 (37.1-69.4) | 46.8 (41.9-51.3) | 34.3 (17.7-47.5) | 47.7 (42.9-52.0) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 25.6 (20.0-30.9) | 13.5 (12.3-14.7) | 20.0 (15.0-24.6) | 13.9 (12.7-15.1) | 22.4 (10.0-33.1) | 14.2 (13.0-15.4) |
| >0-959.9 | 24.0 (19.8-28.0) | 16.1 (14.7-17.5) | 22.9 (17.8-27.6) | 16.7 (15.3-18.0) | 29.7 (14.9-41.9) | 17.0 (15.7-18.3) |
| 960.0-3,054.9 | 22.6 (19.6-25.5) | 15.1 (14.1-16.0) | 20.1 (16.5-23.5) | 15.7 (14.7-16.7) | 18.5 (11.5-25.0) | 16.0 (15.1-16.9) |
| 3,055.0-7,299.9 | 21.5 (18.9-24.0) | 12.6 (11.8-13.4) | 17.3 (14.3-20.1) | 13.4 (12.6-14.2) | 15.5 (9.9-20.7) | 13.7 (12.9-14.4) |
| ≥7,300.0 | 10.4 (8.6-12.2) | 6.9 (6.3-7.5) | 8.9 (6.7-11.0) | 7.3 (6.6-7.9) | 6.7 (2.3-11.0) | 7.4 (6.8-8.0) |
| Cumulative probability (95% CI) at 10 years | 30.6 (28.5-32.6) | 19.9 (19.3-20.5) | 28.1 (25.6-30.6) | 20.6 (20.0-21.2) | 23.7 (18.1-29.0) | 21.1 (20.5-21.7) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 23.1 (20.4-25.7) | 15.2 (14.5-15.8) | 22.2 (19.3-25.1) | 15.4 (14.7-16.1) | 18.6 (11.4-25.2) | 15.9 (15.2-16.5) |
| >0-4.9 | 36.9 (31.1-42.2) | 26.3 (24.3-28.3) | 33.6 (26.5-40.1) | 27.3 (25.3-29.2) | 27.3 (10.7-40.8) | 27.8 (25.9-29.7) |
| 5.0-14.9 | 37.5 (32.7-42.0) | 29.7 (27.8-31.5) | 38.1 (30.6-44.9) | 30.3 (28.5-32.1) | 36.3 (22.7-47.6) | 30.8 (29.0-32.5) |
| 15.0-24.9 | 44.4 (30.0-55.8) | 36.8 (31.4-41.8) | 44.6 (22.3-60.5) | 37.6 (32.5-42.4) | 15.6 (1.8-27.5) | 38.4 (33.4-43.0) |
| ≥25.0 | 47.4 (32.4-59.1) | 36.5 (28.6-43.6) | 43.4 (21.4-59.2) | 38.7 (31.4-45.1) | 6.7 (0.0-18.5) | 39.9 (32.9-46.1) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 16.8 (14.4-19.0) | 12.7 (12.1-13.3) | 17.7 (15.0-20.3) | 12.7 (12.1-13.3) | 15.1 (8.2-21.4) | 13.0 (12.4-13.6) |
| >0-959.9 | 43.1 (36.1-49.4) | 30.8 (27.9-33.6) | 43.0 (32.8-51.6) | 32.1 (29.3-34.8) | 31.8 (14.1-45.9) | 33.1 (30.4-35.7) |
| 960.0-3,054.9 | 47.0 (40.1-53.2) | 39.2 (36.3-42.0) | 51.0 (39.1-60.6) | 39.4 (36.7-42.1) | 31.4 (18.7-42.1) | 40.5 (37.8-43.1) |
| ≥3,055.0 | 62.7 (32.8-79.3) | 48.8 (41.7-55.0) | 51.5 (29.0-66.9) | 50.5 (43.2-56.8) | 29.9 (15.7-41.7) | 50.8 (43.9-56.8) |
| Total cumulative dose, mg | | | | | | |

| | | | | | | |
|---|-------------------|----------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| nonuse (ref) | 41.2 (31.0-49.8) | 22.2 (20.3-24.1) | 34.4 (25.4-42.3) | 22.6 (20.7-24.5) | 29.7 (11.4-44.2) | 23.3 (21.4-25.2) |
| >0-959.9 | 33.6 (27.0-39.6) | 24.7 (22.5-26.8) | 36.1 (26.4-44.6) | 25.0 (22.9-27.0) | 38.1 (16.1-54.3) | 25.6 (23.6-27.6) |
| 960.0-3,054.9 | 33.7 (28.9-38.1) | 22.3 (20.9-23.7) | 32.7 (26.4-38.5) | 22.9 (21.5-24.3) | 26.8 (13.7-38.0) | 23.6 (22.2-25.0) |
| 3,055.0-7,299.9 | 33.4 (29.2-37.3) | 20.0 (18.8-21.1) | 28.5 (23.9-32.8) | 21.0 (19.8-22.1) | 23.6 (12.1-33.6) | 21.5 (20.4-22.7) |
| ≥7,300.0 | 22.9 (19.6-26.2) | 15.0 (14.0-16.1) | 20.0 (15.9-23.9) | 15.7 (14.7-16.7) | 14.0 (5.2-22.0) | 16.1 (15.1-17.1) |
| Parasitic infections | Inhaled GC | No Inhaled GC | Nasogastric GC | No nasogastric GC | Intramuscular GC | No intramuscular GC |
| Incident infections, n (%) | 204 | 916 | 93 | 1027 | 32 | 1088 |
| Cumulative probability (95% CI) at 1 year | 1.6 (1.3-2.0) | 0.8 (0.7-0.9) | 0.9 (0.6-1.3) | 0.9 (0.8-1.0) | 1.4 (0.6-2.2) | 0.9 (0.8-1.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 0.9 (0.5-1.3) | 0.6 (0.4-0.7) | 0.4 (0.0-0.7) | 0.6 (0.5-0.8) | 1.0 (0.0-2.1) | 0.6 (0.5-0.7) |
| >0-4.9 | 1.1 (0.4-1.7) | 0.8 (0.5-1.0) | 1.2 (0.3-2.1) | 0.8 (0.6-1.0) | 2.5 (0.0-4.9) | 0.8 (0.6-1.0) |
| 5.0-14.9 | 2.4 (1.6-3.1) | 0.9 (0.8-1.1) | 1.0 (0.4-1.6) | 1.2 (0.9-1.4) | 0.7 (0.0-1.8) | 1.1 (1.0-1.3) |
| 15.0-24.9 | 3.5 (1.4-5.5) | 1.7 (1.1-2.3) | 1.6 (0.0-3.4) | 2.0 (1.4-2.6) | 4.1 (0.0-9.4) | 1.9 (1.3-2.5) |
| ≥25.0 | 2.6 (0.3-4.8) | 1.9 (0.9-2.9) | 4.6 (0.1-8.9) | 1.8 (0.9-2.7) | 0.0 (0.0-0.0) | 2.1 (1.2-3.0) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.2 (0.1-0.4) | 0.2 (0.1-0.2) | 0.2 (0.0-0.3) | 0.2 (0.1-0.2) | 0.3 (0.0-0.8) | 0.2 (0.1-0.2) |
| >0-959.9 | 4.9 (2.6-7.2) | 3.3 (2.5-4.2) | 3.6 (0.9-6.3) | 3.6 (2.7-4.4) | 2.2 (0.0-6.4) | 3.6 (2.8-4.4) |
| 960.0-3,054.9 | 10.4 (7.3-13.5) | 4.8 (3.9-5.7) | 5.9 (2.7-9.1) | 5.6 (4.7-6.5) | 6.1 (1.1-10.8) | 5.6 (4.7-6.5) |
| ≥3055.0 | 9.0 (4.0-13.7) | 7.6 (5.4-9.8) | 7.3 (0.5-13.7) | 8.0 (5.9-10.1) | 6.2 (0.0-14.1) | 8.0 (5.9-10.0) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 1.7 (0.6-2.8) | 1.0 (0.7-1.2) | 1.0 (0.0-1.9) | 1.0 (0.8-1.3) | 2.2 (0.0-5.1) | 1.0 (0.8-1.3) |
| >0-959.9 | 2.3 (1.2-3.4) | 1.5 (1.1-1.8) | 1.7 (0.4-3.0) | 1.6 (1.2-1.9) | 1.2 (0.0-3.5) | 1.6 (1.2-2.0) |
| 960.0-3,054.9 | 2.3 (1.5-3.0) | 1.0 (0.8-1.2) | 1.2 (0.5-1.8) | 1.1 (0.9-1.3) | 2.0 (0.4-3.5) | 1.1 (0.9-1.3) |
| 3,055.0-7,299.9 | 1.0 (0.5-1.4) | 0.4 (0.3-0.6) | 0.5 (0.1-0.9) | 0.5 (0.4-0.6) | 0.3 (0.0-1.0) | 0.5 (0.4-0.6) |
| ≥7,300.0 | 0.8 (0.0-1.9) | 0.4 (0.0-0.7) | 0.0 (0.0-0.0) | 0.5 (0.1-0.8) | 2.8 (0.0-8.0) | 0.4 (0.1-0.7) |
| Cumulative probability (95% CI) at 5 years | 3.8 (3.2-4.4) | 2.6 (2.4-2.8) | 3.1 (2.4-3.7) | 2.8 (2.6-2.9) | 5.1 (3.2-6.9) | 2.7 (2.5-2.9) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 2.1 (1.5-2.7) | 1.8 (1.6-2.0) | 2.2 (1.4-3.0) | 1.8 (1.6-2.0) | 2.9 (1.0-4.7) | 1.8 (1.6-2.0) |
| >0-4.9 | 3.9 (2.2-5.5) | 3.2 (2.6-3.8) | 3.9 (1.8-6.0) | 3.2 (2.7-3.8) | 9.9 (2.9-16.5) | 3.2 (2.6-3.7) |
| 5.0-14.9 | 6.3 (4.6-7.9) | 4.2 (3.6-4.8) | 3.4 (1.7-5.0) | 4.6 (4.0-5.2) | 8.3 (1.9-14.2) | 4.4 (3.9-5.0) |
| 15.0-24.9 | 8.3 (4.2-12.3) | 6.0 (4.3-7.7) | 7.8 (1.5-13.7) | 6.3 (4.6-7.9) | 8.9 (0.0-18.4) | 6.3 (4.7-7.9) |
| ≥25.0 | 7.8 (2.9-12.5) | 6.9 (3.9-9.8) | 8.3 (1.6-14.5) | 7.0 (4.2-9.6) | 0.0 (0.0- 0.0) | 7.3 (4.7-9.8) |
| Cumulative dose in last year, mg | | | | | | |

| | | | | | | |
|--|------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| nonuse (ref) | 1.0 (0.6- 1.4) | 1.2 (1.0- 1.3) | 1.5 (0.9- 2.1) | 1.1 (1.0- 1.3) | 2.6 (0.9- 4.3) | 1.1 (1.0- 1.3) |
| >0-959.9 | 5.6 (3.4- 7.7) | 5.4 (4.4- 6.4) | 5.6 (1.6- 9.5) | 5.4 (4.5- 6.4) | 2.0 (0.0- 4.9) | 5.5 (4.6- 6.5) |
| 960.0-3,054.9 | 10.3 (6.8-13.6) | 9.0 (7.6-10.3) | 8.0 (4.5-11.4) | 9.3 (7.9-10.6) | 12.4 (2.7-21.2) | 9.1 (7.8-10.4) |
| ≥3,055.0 | 20.6 (11.1-29.1) | 10.9 (7.6-14.1) | 14.3 (0.0-26.9) | 13.2 (9.7-16.6) | 19.1 (4.8-31.3) | 13.1 (9.6-16.4) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 4.7 (2.2-7.2) | 3.2 (2.6-3.9) | 5.6 (2.7-8.5) | 3.2 (2.6-3.8) | 6.2 (0.0-13.6) | 3.3 (2.7-3.9) |
| >0-959.9 | 6.7 (4.3-9.2) | 3.4 (2.8-4.1) | 4.3 (1.8-6.8) | 3.8 (3.1-4.5) | 10.9 (1.0-19.7) | 3.8 (3.1-4.4) |
| 960.0-3,054.9 | 4.5 (3.2-5.8) | 3.5 (3.0-3.9) | 3.8 (2.2-5.5) | 3.6 (3.1-4.1) | 4.7 (1.3-8.0) | 3.6 (3.1-4.0) |
| 3,055.0-7,299.9 | 3.9 (2.8-5.1) | 2.6 (2.2-3.0) | 2.8 (1.6-4.1) | 2.8 (2.4-3.1) | 4.2 (1.4-6.9) | 2.7 (2.4-3.1) |
| ≥7,300.0 | 1.9 (1.1-2.7) | 1.3 (1.1-1.6) | 1.3 (0.5-2.2) | 1.4 (1.1-1.7) | 3.8 (0.4-7.1) | 1.4 (1.1-1.6) |
| Cumulative probability (95% CI) at 10 years | | | | | | |
| | 6.3 (5.2-7.3) | 4.0 (3.7-4.3) | 4.3 (3.3-5.3) | 4.2 (3.9-4.5) | 6.0 (3.7-8.1) | 4.2 (3.9-4.5) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 3.7 (2.7-4.7) | 2.9 (2.6-3.2) | 2.8 (1.8-3.8) | 3.0 (2.7-3.3) | 4.4 (1.7-7.0) | 3.0 (2.7-3.3) |
| >0-4.9 | 6.8 (3.8-9.7) | 5.0 (4.1-6.0) | 4.9 (2.4-7.4) | 5.3 (4.4-6.3) | 9.6 (2.9-15.8) | 5.2 (4.3-6.1) |
| 5.0-14.9 | 9.4 (6.5-12.1) | 6.3 (5.3-7.3) | 5.9 (2.1- 9.6) | 6.9 (5.9-7.9) | 7.6 (1.9-13.0) | 6.8 (5.8-7.7) |
| 15.0-24.9 | 18.9 (5.0-30.7) | 7.9 (5.2-10.5) | 18.2 (0.5-32.8) | 8.8 (6.0-11.5) | 8.4 (0.0-17.3) | 9.6 (6.6-12.5) |
| ≥25.0 | 14.0 (0.7-25.6) | 11.0 (6.2-15.4) | 10.5 (1.6-18.6) | 11.8 (6.7-16.6) | 0.0 (0.0- 0.0) | 11.8 (7.2-16.2) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 2.7 (1.7- 3.6) | 2.3 (2.0-2.5) | 2.3 (1.4-3.2) | 2.3 (2.0-2.6) | 3.9 (1.3-6.3) | 2.3 (2.0-2.5) |
| >0-959.9 | 9.4 (5.3-13.4) | 6.1 (4.8-7.3) | 5.2 (2.2-8.0) | 6.8 (5.5-8.1) | 4.7 (0.0-10.7) | 6.7 (5.4-8.0) |
| 960.0-3,054.9 | 11.6 (6.4-16.4) | 10.2 (8.3-12.1) | 12.3 (3.6-20.2) | 10.3 (8.4-12.0) | 8.1 (2.6-13.2) | 10.4 (8.6-12.2) |
| ≥3,055.0 | 19.9 (1.1-35.1) | 8.1 (6.0-10.2) | 9.4 (1.6-16.6) | 10.8 (6.3-15.0) | 15.6 (4.3-25.6) | 10.4 (6.3-14.4) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 10.2 (3.0-16.8) | 4.9 (3.9-5.9) | 9.4 (4.0-14.4) | 4.9 (3.9-5.9) | 6.7 (0.0-14.9) | 5.2 (4.2-6.1) |
| >0-959.9 | 8.7 (5.4-11.8) | 5.4 (4.3-6.5) | 4.5 (1.8-7.1) | 5.9 (4.8-7.0) | 10.9 (1.0-19.7) | 5.7 (4.6-6.7) |
| 960.0-3,054.9 | 6.2 (4.3-8.1) | 5.0 (4.3-5.7) | 4.5 (2.5-6.4) | 5.2 (4.5-6.0) | 4.9 (1.3-8.3) | 5.1 (4.4-5.8) |
| 3,055.0-7,299.9 | 6.5 (4.3-8.6) | 3.7 (3.2-4.2) | 4.7 (2.4-7.0) | 4.0 (3.5-4.5) | 5.5 (1.7-9.1) | 4.0 (3.5-4.5) |
| ≥7,300.0 | 4.5 (3.0-6.0) | 2.6 (2.2-3.1) | 2.3 (1.0-3.7) | 2.9 (2.5-3.4) | 4.9 (0.8- 8.8) | 2.9 (2.4-3.3) |
| Fungal infections | | | | | | |
| Incident infections, n (%) | 985 | 4431 | 599 | 4817 | 114 | 5302 |
| Cumulative probability (95% CI) at 1 year | | | | | | |
| | 6.6 (5.9-7.3) | 3.5 (3.3-3.7) | 5.5 (4.7-6.3) | 3.8 (3.6-4.0) | 4.7 (3.3-6.2) | 3.9 (3.7-4.1) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 3.7 (2.8-4.6) | 2.3 (2.0- 2.5) | 3.1 (2.2- 4.1) | 2.4 (2.12.6) | 3.3 (1.3-5.4) | 2.4 (2.2-2.7) |

| | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|
| >0-4.9 | 7.5 (5.9-9.1) | 3.5 (3.0-3.9) | 7.7 (5.5-9.8) | 3.7 (3.3-4.2) | 3.0 (0.4-5.6) | 4.1 (3.6-4.5) |
| 5.0-14.9 | 8.0 (6.7-9.3) | 4.2 (3.8-4.6) | 6.8 (5.2-8.4) | 4.5 (4.1-4.9) | 6.5 (3.4-9.4) | 4.7 (4.3-5.1) |
| 15.0-24.9 | 11.9 (8.3-15.4) | 6.6 (5.4-7.7) | 7.2 (3.5-10.8) | 7.4 (6.2-8.5) | 12.0 (2.4-20.6) | 7.2 (6.1-8.3) |
| ≥25.0 | 8.6 (4.5-12.6) | 8.5 (6.5-10.5) | 7.2 (1.4-12.6) | 8.6 (6.7-10.5) | 0.0 (0.0-0.0) | 8.7 (6.9-10.6) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 0.9 (0.6-1.2) | 0.8 (0.7-1.0) | 1.1 (0.7-1.5) | 0.8 (0.7-0.9) | 1.1 (0.3-2.0) | 0.8 (0.7-0.9) |
| >0-959.9 | 20.8 (16.7-24.6) | 11.3 (9.9-12.6) | 17.3 (12.2-22.0) | 12.5 (11.1-13.9) | 13.8 (3.5-22.9) | 12.9 (11.5-14.3) |
| 960.0-3,054.9 | 28.6 (24.6-32.5) | 18.7 (17.3-20.2) | 24.4 (19.3-29.1) | 19.9 (18.4-21.3) | 19.2 (11.0-26.5) | 20.3 (18.9-21.8) |
| ≥3,055.0 | 28.2 (21.2-34.7) | 23.3 (19.9-26.5) | 32.0 (20.8-41.6) | 23.5 (20.3-26.5) | 13.7 (0.1-25.4) | 24.7 (21.6-27.7) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 6.4 (4.3- 8.5) | 4.1 (3.6-4.7) | 6.2 (3.9-8.5) | 4.2 (3.7-4.7) | 7.4 (1.9-12.5) | 4.3 (3.8-4.8) |
| >0-959.9 | 11.8 (9.4-14.2) | 5.6 (4.9-6.4) | 10.4 (7.4-13.4) | 6.2 (5.5-7.0) | 8.0 (2.1-13.6) | 6.6 (5.9-7.3) |
| 960.0-3,054.9 | 9.0 (7.6-10.3) | 4.6 (4.2-5.0) | 6.3 (4.9- 7.8) | 5.1 (4.7-5.5) | 6.2 (3.4-8.8) | 5.2 (4.8-5.6) |
| 3,055.0-7,299.9 | 3.2 (2.4- 4.0) | 1.6 (1.4-1.8) | 3.1 (2.1- 4.1) | 1.7 (1.5-1.9) | 1.8 (0.2-3.4) | 1.8 (1.6-2.1) |
| ≥7,300.0 | 0.9 (0.0- 2.1) | 1.5 (0.9-2.2) | 1.0 (0.0-2.8) | 1.5 (0.8-2.1) | 0.0 (0.0-0.0) | 1.5 (0.8-2.1) |
| Cumulative probability (95% CI) at 5 years | | | | | | |
| | 20.8 (19.5-22.1) | 12.7 (12.3-13.1) | 20.1 (18.5-21.7) | 13.1 (12.7-13.5) | 18.3 (14.9-21.7) | 13.6 (13.2-14.0) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 12.9 (11.4-14.4) | 9.0 (8.5-9.4) | 14.0 (12.1-15.8) | 9.0 (8.5-9.4) | 12.8 (9.0-16.4) | 9.3 (8.9-9.7) |
| >0-4.9 | 30.0 (26.0-33.8) | 16.6 (15.4-17.9) | 27.4 (22.6-31.9) | 17.7 (16.4-18.9) | 31.6 (18.8-42.5) | 18.3 (17.1-19.5) |
| 5.0-14.9 | 27.3 (24.2-30.2) | 19.2 (18.0-20.3) | 28.9 (24.6-32.9) | 19.6 (18.5-20.8) | 21.7 (13.0-29.5) | 20.4 (19.3-21.5) |
| 15.0-24.9 | 36.9 (28.7-44.2) | 25.6 (22.3-28.7) | 35.9 (23.9-46.0) | 26.9 (23.7-30.0) | 46.3 (0.0-71.5) | 27.5 (24.4-30.4) |
| ≥25.0 g | 32.2 (22.2-40.8) | 24.9 (20.4-29.0) | 20.9 (8.6-31.5) | 27.2 (22.9-31.3) | 25.0 (0.0-57.4) | 26.8 (22.7-30.7) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 7.5 (6.3-8.6) | 6.1 (5.8-6.5) | 9.6 (8.1-11.1) | 6.0 (5.6-6.3) | 9.7 (6.4-12.9) | 6.2 (5.9-6.5) |
| >0-959.9 | 36.1 (31.0-40.8) | 24.6 (22.6-26.6) | 38.5 (31.0-45.2) | 25.5 (23.6-27.4) | 21.9 (8.2-33.6) | 26.9 (25.0-28.7) |
| 960.0-3,054.9 mg | 47.1 (41.7-52.0) | 34.9 (32.8-36.9) | 44.0 (37.3-50.0) | 36.2 (34.1-38.1) | 40.2 (25.1-52.2) | 36.8 (34.8-38.7) |
| ≥3,055.0 mg | 52.8 (42.9-61.0) | 42.7 (37.4-47.5) | 57.9 (40.5-70.1) | 43.7 (38.9-48.1) | 60.0 (5.2-83.1) | 44.9 (40.3-49.2) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 24.9 (19.2-30.2) | 14.9 (13.6-16.1) | 24.1 (18.4-29.3) | 14.9 (13.7-16.2) | 30.8 (16.0-43.1) | 15.4 (14.1-16.6) |
| >0-959.9 | 26.0 (21.9-29.9) | 15.8 (14.4-17.2) | 24.4 (19.2-29.2) | 16.6 (15.2-17.9) | 30.2 (15.0-42.7) | 17.1 (15.8-18.4) |
| 960.0-3,054.9 | 26.7 (23.7-29.7) | 16.7 (15.7-17.7) | 25.9 (21.8-29.7) | 17.3 (16.4-18.3) | 16.1 (10.1-21.8) | 18.1 (17.1-19.0) |
| 3,055.0-7,299.9 | 21.1 (18.5-23.6) | 12.8 (12.0-13.5) | 21.5 (18.2-24.5) | 13.1 (12.4-13.9) | 16.5 (10.6-22.0) | 13.7 (13.0-14.5) |
| ≥7,300.0 | 12.2 (10.2-14.2) | 6.7 (6.1-7.3) | 10.9 (8.4-13.3) | 7.1 (6.5-7.7) | 12.8 (6.0-19.1) | 7.4 (6.8-8.0) |

| | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|
| Cumulative probability (95% CI) at 10 years | 29.9 (27.9-31.8) | 20.0 (19.4-20.6) | 28.8 (26.5-31.1) | 20.6 (20.0-21.2) | 24.1 (18.3-29.4) | 21.2 (20.6-21.8) |
| Current daily dose, mg | | | | | | |
| nonuse (ref) | 21.0 (18.6-23.3) | 15.7 (15.0-16.4) | 22.6 (19.7-25.4) | 15.7 (15.0-16.4) | 19.4 (12.1-26.0) | 16.2 (15.5-16.8) |
| >0-4.9 | 39.8 (34.1-45.0) | 26.6 (24.5-28.6) | 37.4 (30.5-43.6) | 27.6 (25.6-29.6) | 46.5 (19.2-64.6) | 28.3 (26.4-30.2) |
| 5.0-14.9 | 39.0 (34.3-43.5) | 27.6 (25.8-29.4) | 36.8 (30.5-42.6) | 28.7 (27.0-30.4) | 20.6 (12.5-28.0) | 29.5 (27.8-31.2) |
| 15.0-24.9 | 44.8 (33.6-54.1) | 34.0 (29.4-38.4) | 41.6 (26.8-53.4) | 35.5 (31.0-39.7) | 38.2 (4.7-59.9) | 36.0 (31.7-40.0) |
| ≥25.0 | 38.4 (25.7-49.0) | 36.3 (29.0-42.9) | 45.4 (8.4-67.4) | 36.3 (29.9-42.1) | 12.5 (0.0-32.7) | 37.3 (31.0-43.1) |
| Cumulative dose in last year, mg | | | | | | |
| nonuse (ref) | 15.8 (13.7-17.9) | 13.1 (12.4-13.7) | 18.6 (16.0-21.1) | 12.9 (12.3-13.5) | 16.8 (9.9-23.1) | 13.3 (12.7-13.9) |
| >0-959.9 | 39.6 (33.4-45.2) | 31.4 (28.5-34.1) | 42.1 (32.0-50.7) | 32.1 (29.4-34.7) | 21.8 (10.2-31.9) | 33.1 (30.5-35.6) |
| 960.0-3,054.9 | 47.5 (40.9-53.3) | 35.9 (33.4-38.4) | 46.5 (37.5-54.2) | 36.9 (34.5-39.3) | 40.7 (13.4-59.4) | 37.8 (35.4-40.0) |
| ≥3,055.0 | 49.6 (38.0-59.0) | 46.0 (38.5-52.5) | 53.4 (25.6-70.8) | 46.4 (39.7-52.5) | 44.1 (17.1-62.3) | 47.0 (40.5-52.7) |
| Total cumulative dose, mg | | | | | | |
| nonuse (ref) | 33.0 (25.3-39.8) | 22.5 (20.6-24.3) | 34.2 (25.1-42.1) | 22.4 (20.6-24.3) | 32.3 (16.6-45.0) | 23.1 (21.2-24.9) |
| >0-959.9 | 35.3 (29.1-41.0) | 24.7 (22.6-26.8) | 28.5 (22.5-34.0) | 25.9 (23.8-27.9) | 43.5 (20.2-60.0) | 25.9 (23.9-27.9) |
| 960.0-3,054.9 | 36.3 (31.7-40.5) | 24.5 (23.0-26.0) | 38.2 (31.9-43.9) | 25.0 (23.5-26.4) | 20.8 (10.4-30.1) | 26.1 (24.6-27.5) |
| 3,055.0-7,299.9 | 30.9 (27.0-34.5) | 20.3 (19.1-21.5) | 33.8 (28.5-38.8) | 20.5 (19.4-21.7) | 17.7 (11.4-23.6) | 21.6 (20.4-22.7) |
| ≥7,300.0 | 21.7 (18.6-24.7) | 13.7 (12.7-14.7) | 17.4 (13.9-20.7) | 14.6 (13.6-15.5) | 23.5 (8.9-35.9) | 14.7 (13.8-15.7) |

Note: CI, confidence interval; GC, glucocorticoids; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage.

Supplemental Table 12. Kaplan-Meier estimates of infections per level of current daily and cumulative oral glucocorticoid prednisolone-equivalent dose by use of rectal and topical glucocorticoids at baseline

| All-cause infection | Non-oral GC use | | | |
|---|------------------|------------------|------------------|------------------|
| | Rectal GC | No rectal GC | Topical GC | No topical GC |
| Incident infections, n (%) | 572 | 21662 | 751 | 21483 |
| Cumulative probability (95% CI) at 1 year | 23.8 (21.0-26.6) | 18.2 (17.8-18.6) | 24.7 (22.1-27.3) | 18.1 (17.7-18.5) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 16.0 (12.1-19.8) | 12.8 (12.3-13.4) | 16.9 (13.3-20.5) | 12.8 (12.2-13.3) |
| >0-4.9 | 21.7 (15.2-27.7) | 17.9 (17.0-18.7) | 24.0 (18.1-29.5) | 17.8 (16.9-18.7) |
| 5.0-14.9 | 29.6 (24.0-34.8) | 20.9 (20.2-21.6) | 31.2 (26.0-36.0) | 20.8 (20.1-21.5) |
| 15.0-24.9 | 35.7 (23.1-46.2) | 30.2 (28.3-32.1) | 34.0 (22.8-43.5) | 30.2 (28.3-32.1) |
| ≥25.0 | 41.2 (24.0-54.6) | 35.6 (32.6-38.5) | 38.4 (21.0-52.0) | 35.7 (32.7-38.6) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 7.3 (5.1-9.4) | 5.0 (4.7-5.3) | 6.4 (4.6-8.2) | 5.0 (4.8-5.3) |
| >0-959.9 | 48.0 (37.5-56.7) | 38.7 (37.1-40.2) | 55.6 (46.8-63.0) | 38.3 (36.7-39.8) |
| 960.0-3,054.9 | 47.9 (39.8-54.8) | 49.2 (47.9-50.5) | 60.9 (52.8-67.7) | 48.8 (47.5-50.1) |
| ≥3,055.0 | 72.3 (55.8-82.7) | 59.9 (57.5-62.1) | 65.3 (49.4-76.2) | 60.0 (57.7-62.3) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 26.8 (19.0-33.9) | 20.4 (19.4-21.5) | 25.0 (17.8-31.5) | 20.5 (19.4-21.5) |
| >0-959.9 | 37.1 (28.5-44.6) | 28.8 (27.5-30.1) | 44.9 (36.9-51.8) | 28.5 (27.2-29.7) |
| 960.0-3,054.9 | 25.9 (21.1-30.5) | 21.8 (21.1-22.5) | 27.5 (22.9-31.8) | 21.7 (21.0-22.5) |
| 3,055.0-7,299.9 | 12.8 (8.7-16.7) | 10.2 (9.6-10.7) | 12.0 (8.5-15.4) | 10.2 (9.6-10.7) |
| ≥7,300.0 | 21.9 (4.7-35.9) | 7.1 (5.7-8.5) | 13.0 (0.0-25.8) | 7.3 (5.9-8.8) |
| Cumulative probability (95% CI) at 5 years | 64.4 (60.5-67.8) | 54.4 (53.9-55.0) | 63.7 (60.4-66.7) | 54.4 (53.8-55.0) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 50.5 (44.9-55.4) | 41.9 (41.1-42.7) | 50.6 (45.9-54.9) | 41.8 (41.0-42.6) |
| >0-4.9 | 81.7 (72.5-87.9) | 64.6 (63.1-66.0) | 75.4 (67.3-81.5) | 64.6 (63.2-66.0) |
| 5.0-14.9 | 76.6 (68.6-82.6) | 69.7 (68.5-70.8) | 78.9 (72.5-83.8) | 69.6 (68.4-70.7) |
| 15.0-24.9 | 81.4 (57.7-91.8) | 77.8 (75.3-80.0) | 74.2 (58.4-84.0) | 78.1 (75.5-80.3) |
| ≥25.0 | 86.2 (66.2-94.4) | 81.4 (78.0-84.2) | 88.6 (67.3-96.0) | 81.3 (78.0-84.1) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 41.4 (35.9-46.4) | 32.4 (31.6-33.1) | 38.9 (34.2-43.3) | 32.4 (31.6-33.1) |
| >0-959.9 | 85.6 (73.0-92.4) | 74.6 (73.1-76.1) | 82.7 (75.7-87.7) | 74.5 (73.0-76.0) |
| 960.0-3,054.9 | 92.2 (85.4-95.8) | 84.3 (83.2-85.3) | 89.7 (84.1-93.4) | 84.3 (83.2-85.3) |
| ≥3,055.0 | 96.7 (79.4-99.5) | 92.5 (90.8-93.8) | 94.1 (81.3-98.1) | 92.6 (90.9-94.0) |

| | | | | |
|--|--------------------|---------------------|--------------------|----------------------|
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 77.6 (66.2-85.2) | 58.2 (56.6-59.8) | 74.2 (64.2-81.4) | 58.3 (56.6-59.8) |
| >0-959.9 | 66.1 (55.4-74.3) | 62.3 (60.7-63.9) | 76.5 (68.3-82.5) | 61.8 (60.2-63.4) |
| 960.0-3,054.9 | 68.4 (60.7-74.6) | 61.5 (60.4-62.6) | 68.2 (61.9-73.5) | 61.5 (60.3-62.6) |
| 3,055.0-7,299.9 | 61.6 (54.2-67.8) | 55.0 (53.9-56.1) | 60.4 (54.1-65.9) | 55.0 (53.9-56.1) |
| ≥7,300.0 | 46.7 (36.5-55.2) | 35.8 (34.6-37.1) | 41.1 (32.6-48.6) | 35.9 (34.6-37.2) |
| Cumulative probability (95% CI) at 10 years | 80.3 (76.3-83.6) | 76.8 (76.2-77.4) | 82.6 (79.1-85.5) | 76.7 (76.1-77.3) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 69.2 (62.8- 74.4) | 68.0 (67.0-68.9) | 74.3 (68.7-78.9) | 67.8 (66.8-68.7) |
| >0-4.9 | 93.9 (85.1- 97.5) | 84.1 (82.6-85.5) | 89.3 (81.3-93.9) | 84.2 (82.7-85.6) |
| 5.0-14.9 | 91.0 (83.2- 95.2) | 88.6 (87.5-89.7) | 92.6 (85.1-96.3) | 88.6 (87.4-89.6) |
| 15.0-24.9 | 85.0 (57.9- 94.7) | 92.3 (89.9-94.2) | 100.0 (NA-NA) | 92.1 (89.6-94.0) |
| ≥25.0 | 100.0 (NA- NA) | 92.8 (89.8-95.0) | 92.0 (70.2-97.9) | 92.9 (89.9-95.1) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 65.1 (58.3-70.7) | 62.5 (61.5-63.5) | 69.2 (62.8-74.4) | 62.3 (61.3-63.3) |
| >0-959.9 | 89.1 (78.0-94.6) | 88.7 (87.1-90.1) | 92.2 (83.4-96.4) | 88.5 (86.9-90.0) |
| 960.0-3,054.9 | 98.6 (90.9-99.8) | 92.9 (91.9-93.9) | 93.7 (88.0- 96.7) | 93.1 (92.0-94.0) |
| ≥3,055.0 | 90.4 (76.7-96.0) | 97.2 (95.7-98.2) | 100.0 (NA-NA) | 97.2 (95.6-98.2) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 84.9 (73.4-91.4) | 79.1 (77.4-80.8) | 88.1 (76.6-94.0) | 79.0 (77.2-80.7) |
| >0-959.9 | 88.8 (74.2-95.2) | 82.0 (80.3-83.6) | 85.3 (76.6-90.7) | 82.1 (80.3-83.7) |
| 960.0-3,054.9 | 84.1 (75.5-89.7) | 81.2 (79.9-82.4) | 85.0 (77.9-89.8) | 81.2 (79.9-82.4) |
| 3,055.0-7,299.9 | 77.8 (69.1-84.0) | 76.0 (74.8-77.2) | 81.6 (73.1-87.4) | 75.9 (74.7-77.1) |
| ≥7,300.0 | 67.8 (56.5-76.1) | 67.4 (65.9-68.9) | 74.2 (64.2-81.3) | 67.2 (65.7-68.7) |
| Bacterial infections | Rectal GC | No rectal GC | Topical GC | No topical GC |
| Incident infections, n (%) | 126 | 5108 | 173 | 5061 |
| Cumulative probability (95% CI) at 1 year | 3.3 (2.1-4.5) | 3.2 (3.0-3.3) | 4.5 (3.2-5.7) | 3.1 (2.9-3.3) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 2.6 (1.0-4.1) | 2.1 (1.8-2.3) | 2.9 (1.3-4.4) | 2.0 (1.8-2.3) |
| >0-4.9 | 5.5 (1.9-8.9) | 3.4 (3.0-3.8) | 4.4 (1.5-7.1) | 3.4 (3.0-3.8) |
| 5.0-14.9 | 2.5 (0.5-4.4) | 3.5 (3.1-3.8) | 5.8 (3.2-8.4) | 3.4 (3.1-3.7) |
| 15.0-24.9 | 5.2 (0.0-10.7) | 6.4 (5.3-7.4) | 6.5 (0.8-11.8) | 6.3 (5.3-7.4) |
| ≥25.0 | 3.0 (0.0-8.7) | 8.1 (6.3-9.9) | 9.8 (0.0-19.8) | 7.9 (6.1-9.6) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 0.8 (0.2-1.5) | 0.7 (0.6-0.8) | 0.9 (0.3-1.5) | 0.7 (0.6-0.8) |

| | | | | |
|--|------------------|------------------|------------------|------------------|
| >0-959.9 | 11.2 (2.2-19.4) | 11.4 (10.0-12.7) | 28.2 (15.0-39.3) | 10.9 (9.6-12.3) |
| 960.0-3,054.9 | 9.3 (2.9-15.3) | 17.3 (15.9-18.7) | 21.1 (10.4-30.4) | 17.0 (15.7-18.4) |
| ≥3,055.0 mg | 54.4 (20.1-74.0) | 22.5 (19.4-25.5) | 50.9 (20.2-69.8) | 22.6 (19.5-25.6) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 4.6 (0.9-8.2) | 3.5 (3.0-4.0) | 4.7 (1.2-8.1) | 3.5 (3.0-4.0) |
| >0-959.9 | 4.3 (0.5-8.0) | 5.4 (4.7-6.0) | 11.1 (5.8-16.1) | 5.2 (4.5-5.8) |
| 960.0-3,054.9 | 2.6 (0.8-4.3) | 4.1 (3.7-4.4) | 4.1 (2.1-6.2) | 4.0 (3.7-4.4) |
| 3,055.0-7,299.9 | 3.0 (1.0-4.9) | 1.7 (1.5-1.9) | 2.3 (0.8-3.8) | 1.7 (1.5-2.0) |
| ≥7,300.0 | 3.0 (0.0-8.7) | 0.6 (0.2-1.0) | 4.0 (0.0-11.4) | 0.6 (0.2-1.0) |
| Cumulative probability (95% CI) at 5 years | 12.1 (9.6-14.6) | 11.6 (11.2-12.0) | 13.3 (11.1-15.6) | 11.5 (11.2-11.9) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 8.6 (5.8-11.2) | 7.5 (7.1-7.9) | 8.8 (6.4-11.2) | 7.5 (7.1-7.9) |
| >0-4.9 | 26.5 (17.0-34.9) | 16.7 (15.6-17.9) | 21.6 (14.2-28.3) | 16.8 (15.6-17.9) |
| 5.0-14.9 | 11.4 (5.2-17.2) | 17.8 (16.7-18.8) | 18.9 (12.6-24.7) | 17.6 (16.5-18.6) |
| 15.0-24.9 | 23.0 (0.8-40.3) | 23.7 (20.8-26.5) | 22.9 (6.5-36.4) | 23.7 (20.8-26.6) |
| ≥25.0 | 15.5 (0.0-30.5) | 28.8 (24.3-33.0) | 13.9 (0.0-27.4) | 28.9 (24.4-33.1) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 5.5 (3.4-7.5) | 4.9 (4.6-5.2) | 5.9 (4.1-7.7) | 4.9 (4.6-5.2) |
| >0-959.9 | 22.2 (8.9-33.5) | 24.1 (22.2-25.9) | 26.3 (17.0-34.5) | 24.0 (22.1-25.9) |
| 960.0-3,054.9 | 39.1 (21.1-53.0) | 33.0 (31.1-34.9) | 38.0 (24.8-48.9) | 33.0 (31.0-34.8) |
| ≥3,055.0 | 54.8 (12.9-76.6) | 50.2 (45.3-54.6) | 55.8 (29.7-72.2) | 50.2 (45.3-54.7) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 14.2 (5.6-22.0) | 12.3 (11.2-13.4) | 17.3 (9.1-24.9) | 12.2 (11.1-13.3) |
| >0-959.9 | 10.2 (3.5-16.5) | 14.3 (13.1-15.6) | 20.5 (12.3-27.8) | 14.0 (12.8-15.2) |
| 960.0-3,054.9 | 15.1 (8.9-20.8) | 14.5 (13.6-15.4) | 14.4 (9.3-19.2) | 14.5 (13.6-15.4) |
| 3,055.0-7,299.9 | 14.8 (9.9-19.6) | 11.8 (11.1-12.5) | 13.3 (9.0-17.4) | 11.8 (11.1-12.5) |
| ≥7,300.0 | 5.9 (2.3- 9.5) | 7.3 (6.7-7.8) | 7.6 (4.2-11.0) | 7.2 (6.6-7.8) |
| Cumulative probability (95% CI) at 10 years | 20.8 (16.8-24.7) | 21.0 (20.4-21.7) | 21.8 (18.3-25.1) | 21.0 (20.4-21.6) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 17.5 (12.7-22.0) | 15.6 (14.9-16.3) | 15.2 (11.4-18.9) | 15.7 (15.0-16.3) |
| >0-4.9 | 31.5 (20.6-40.9) | 29.1 (27.1-31.1) | 40.4 (27.5-51.0) | 28.8 (26.8-30.7) |
| 5.0-14.9 | 19.0 (8.2-28.6) | 30.9 (29.1-32.7) | 27.9 (18.2-36.4) | 30.7 (28.9-32.5) |
| 15.0-24.9 | 26.0 (0.2-45.2) | 36.0 (31.3-40.4) | 38.4 (11.1-57.2) | 35.7 (30.9-40.1) |
| ≥25.0 | 62.4 (0.0-90.9) | 45.0 (37.4-51.6) | 17.1 (0.0-33.0) | 45.8 (38.2-52.5) |
| Cumulative dose in last year, mg | | | | |

| | | | | |
|---|------------------|---------------------|-------------------|----------------------|
| nonuse (ref) | 14.1 (9.8-18.1) | 12.7 (12.1-13.3) | 13.7 (10.0-17.1) | 12.7 (12.1-13.3) |
| >0-959.9 | 28.2 (12.4-41.2) | 33.2 (30.5-35.9) | 29.0 (18.0-38.5) | 33.1 (30.3-35.7) |
| 960.0-3,054.9 | 32.6 (17.0-45.2) | 42.0 (39.2-44.6) | 34.6 (22.4-44.9) | 42.0 (39.2-44.7) |
| ≥3,055.0 | 67.8 (0.0-92.1) | 53.6 (47.9-58.6) | 64.8 (13.3-85.7) | 54.1 (48.0-59.4) |
| Total cumulative dose, mg | | | | |
| nonuse | 18.6 (7.6-28.3) | 22.4 (20.3-24.3) | 21.9 (11.6-31.1) | 22.3 (20.3-24.3) |
| >0-959.9 | 30.0 (12.8-43.7) | 22.4 (20.5-24.2) | 27.5 (16.3-37.2) | 22.4 (20.5-24.3) |
| 960.0-3,054.9 | 22.6 (13.9-30.3) | 24.2 (22.8-25.7) | 20.3 (13.4-26.7) | 24.3 (22.8-25.8) |
| 3,055.0-7,299.9 | 22.1 (14.3-29.3) | 20.9 (19.8-22.1) | 25.4 (16.9-33.0) | 20.9 (19.7-22.0) |
| ≥7,300.0 | 14.3 (7.8-20.4) | 17.4 (16.4-18.5) | 17.2 (11.4-22.6) | 17.4 (16.3-18.4) |
| Viral infections | Rectal GC | No rectal GC | Topical GC | No topical GC |
| Incident infections, n (%) | 152 | 5192 | 196 | 5148 |
| Cumulative probability (95% CI) at 1 year | 4.8 (3.4-6.2) | 3.7 (3.5-3.9) | 5.3 (3.9-6.6) | 3.7 (3.5-3.9) |
| Current daily dose, mg | | | | |
| nonuse | 2.9 (1.2-4.5) | 2.4 (2.2-2.7) | 3.7 (2.0-5.5) | 2.4 (2.2-2.7) |
| >0-4.9 | 4.5 (1.2-7.7) | 3.6 (3.1-4.0) | 5.3 (2.2-8.3) | 3.5 (3.1-3.9) |
| 5.0-14.9 | 7.2 (4.0-10.2) | 4.6 (4.2-4.9) | 5.4 (2.8-7.9) | 4.6 (4.2-5.0) |
| 15.0-24.9 | 9.4 (1.9-16.3) | 7.2 (6.1-8.3) | 9.2 (2.5-15.6) | 7.2 (6.1-8.3) |
| ≥25.0 | 0.0 (0.0-0.0) | 8.2 (6.4-10.0) | 15.5 (2.0-27.2) | 7.7 (5.9-9.4) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 1.1 (0.3-1.9) | 0.8 (0.7-0.9) | 0.8 (0.2-1.4) | 0.8 (0.7-0.9) |
| >0-959.9 | 12.9 (4.0-21.0) | 13.9 (12.5-15.4) | 30.5 (17.5-41.5) | 13.5 (12.0-14.9) |
| 960.0-3,054.9 | 17.6 (9.4-25.0) | 18.5 (17.1-19.9) | 26.0 (15.3-35.5) | 18.3 (16.9-19.7) |
| ≥3055.0 | 39.9 (14.9-57.6) | 25.4 (22.4-28.3) | 40.6 (14.8-58.6) | 25.3 (22.3-28.3) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 5.5 (1.5-9.4) | 3.9 (3.4-4.4) | 3.3 (0.4-6.2) | 4.0 (3.5-4.5) |
| >0-959.9 | 7.3 (2.6-11.8) | 6.9 (6.1-7.6) | 11.4 (6.1-16.4) | 6.8 (6.0-7.5) |
| 960.0-3,054.9 | 4.7 (2.3-7.0) | 4.5 (4.2-4.9) | 5.5 (3.1-7.8) | 4.5 (4.1-4.9) |
| 3,055.0-7,299.9 | 3.7 (1.5-5.8) | 2.1 (1.9-2.3) | 3.4 (1.6-5.2) | 2.1 (1.9-2.3) |
| ≥7,300.0 | 3.0 (0.0-8.7) | 1.2 (0.6-1.7) | 3.8 (0.0-11.0) | 1.2 (0.6-1.7) |
| Cumulative probability (95% CI) at 5 years | 17.4 (14.5-20.3) | 13.0 (12.6-13.4) | 16.2 (13.7-18.5) | 13.0 (12.6-13.4) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 13.2 (9.9-16.4) | 8.7 (8.3-9.1) | 12.3 (9.5-15.0) | 8.7 (8.3-9.1) |
| >0-4.9 | 25.9 (16.1-34.5) | 17.5 (16.3-18.7) | 20.0 (12.9-26.6) | 17.6 (16.3-18.8) |
| 5.0-14.9 | 24.1 (15.8-31.5) | 20.2 (19.1-21.3) | 21.1 (14.5-27.2) | 20.3 (19.2-21.4) |

| | | | | |
|--|------------------|---------------------|-------------------|----------------------|
| 15.0-24.9 | 21.6 (5.9-34.7) | 24.7 (21.8-27.5) | 24.1 (8.5-37.0) | 24.7 (21.7-27.5) |
| ≥25.0 | 15.4 (0.0-32.9) | 27.8 (23.3-32.0) | 38.4 (14.2-55.8) | 27.1 (22.6-31.4) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 9.3 (6.7-11.9) | 5.8 (5.5-6.1) | 7.4 (5.3-9.5) | 5.8 (5.5-6.2) |
| >0-959.9 | 30.4 (16.2-42.2) | 26.0 (24.1-27.9) | 36.4 (25.5-45.6) | 25.8 (23.8-27.6) |
| 960.0-3,054.9 | 49.5 (32.3-62.3) | 34.8 (32.8-36.6) | 30.8 (21.3-39.2) | 35.2 (33.3-37.1) |
| ≥3,055.0 | 56.8 (0.0-81.5) | 47.4 (42.7-51.7) | 58.3 (32.8-74.1) | 47.4 (42.6-51.9) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 24.6 (13.9-34.0) | 14.1 (12.9-15.3) | 20.7 (11.4-29.0) | 14.2 (13.0-15.3) |
| >0-959.9 | 23.0 (13.5-31.4) | 17.0 (15.7-18.4) | 30.4 (20.7-38.9) | 16.8 (15.4-18.1) |
| 960.0-3,054.9 | 21.0 (14.0-27.5) | 15.9 (15.0-16.9) | 18.8 (13.3-24.0) | 16.0 (15.0-16.9) |
| 3,055.0-7,299.9 | 15.4 (10.2-20.2) | 13.7 (12.9-14.4) | 16.1 (11.6-20.4) | 13.6 (12.9-14.4) |
| ≥7,300.0 | 10.2 (5.5-14.8) | 7.3 (6.7-7.9) | 5.5 (2.4-8.5) | 7.5 (6.9-8.1) |
| Cumulative probability (95% CI) at 10 years | 25.0 (21.0-28.8) | 21.1 (20.5-21.7) | 26.6 (22.7-30.3) | 21.0 (20.4-21.6) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 18.9 (14.5-23.1) | 15.8 (15.2-16.5) | 19.6 (15.5-23.6) | 15.8 (15.1-16.5) |
| >0-4.9 | 35.0 (21.4-46.2) | 27.7 (25.8-29.6) | 34.1 (21.4-44.8) | 27.7 (25.7-29.6) |
| 5.0-14.9 | 34.7 (23.1-44.5) | 30.8 (29.1-32.6) | 39.6 (26.5-50.4) | 30.7 (28.9-32.4) |
| 15.0-24.9 | 42.9 (0.0-68.7) | 38.1 (33.1-42.7) | 42.3 (16.9-60.0) | 37.9 (32.9-42.6) |
| ≥25.0 | 57.7 (0.0-89.6) | 39.1 (32.2-45.3) | 79.5 (0.0-96.0) | 38.1 (31.2-44.3) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 16.0 (11.9-20.0) | 13.0 (12.4-13.6) | 15.5 (11.7-19.2) | 13.0 (12.4-13.6) |
| >0-959.9 | 39.0 (21.9-52.3) | 33.0 (30.2-35.6) | 54.4 (29.8-70.4) | 32.5 (29.8-35.2) |
| 960.0-3,054.9 | 44.5 (27.6-57.4) | 40.4 (37.7-43.0) | 48.0 (31.2-60.7) | 40.2 (37.5-42.8) |
| ≥3,055.0 | 50.7 (14.7-71.6) | 50.8 (43.8-57.0) | 43.3 (24.9-57.2) | 50.6 (43.7-56.6) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 36.4 (20.9-48.9) | 23.1 (21.2-25.0) | 28.5 (15.9-39.3) | 23.3 (21.4-25.1) |
| >0-959.9 | 34.9 (21.3-46.1) | 25.6 (23.5-27.6) | 41.0 (27.5-52.0) | 25.3 (23.2-27.3) |
| 960.0-3,054.9 | 30.2 (19.7-39.3) | 23.5 (22.1-24.9) | 25.3 (17.9-32.0) | 23.7 (22.2-25.0) |
| 3,055.0-7,299.9 | 19.8 (12.6-26.5) | 21.6 (20.5-22.7) | 25.0 (18.0-31.4) | 21.5 (20.3-22.6) |
| ≥7,300.0 | 17.5 (10.9-23.6) | 16.0 (15.0-17.1) | 21.3 (13.8-28.2) | 15.9 (14.9-16.9) |
| Parasitic infections | Rectal GC | No rectal GC | Topical GC | No topical GC |
| Incident infections, n (%) | 29 | 1091 | 49 | 1071 |
| Cumulative probability (95% CI) at 1 year | 1.6 (0.7-2.4) | 0.9 (0.8-1.0) | 1.7 (0.9-2.4) | 0.9 (0.8-1.0) |
| Current daily dose, mg | | | | |

| | | | | |
|--|-----------------|-----------------|-----------------|------------------|
| nonuse (ref) | 0.8 (0.0-1.6) | 0.6 (0.5-0.7) | 1.1 (0.1-2.0) | 0.6 (0.5-0.7) |
| >0-4.9 | 2.5 (0.0-5.0) | 0.8 (0.6-1.0) | 1.4 (0.0-3.1) | 0.8 (0.6-1.0) |
| 5.0-14.9 | 1.6 (0.0-3.2) | 1.1 (0.9-1.3) | 2.0 (0.4-3.5) | 1.1 (0.9-1.3) |
| 15.0-24.9 | 3.4 (0.0-7.8) | 1.9 (1.3-2.5) | 3.9 (0.0-8.1) | 1.9 (1.3-2.5) |
| ≥25.0 | 2.9 (0.0-8.2) | 2.0 (1.1-3.0) | 3.2 (0.0-9.2) | 2.0 (1.1-2.9) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 0.1 (0.0-0.4) | 0.2 (0.1-0.2) | 0.2 (0.0-0.5) | 0.2 (0.1-0.2) |
| >0-959.9 | 9.0 (1.0-16.4) | 3.4 (2.6-4.2) | 16.0 (4.8-25.8) | 3.3 (2.5-4.1) |
| 960.0-3,054.9 | 7.4 (0.0-14.5) | 5.6 (4.7-6.5) | 13.3 (4.1-21.7) | 5.4 (4.5-6.3) |
| ≥3055.0 | 18.7 (0.0-34.1) | 7.6 (5.6-9.6) | 0.0 (0.0- 0.0) | 8.1 (6.0-10.1) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 0.8 (0.0-2.3) | 1.0 (0.8-1.3) | 1.3 (0.0-3.1) | 1.0 (0.8-1.3) |
| >0-959.9 | 4.0 (0.5-7.5) | 1.5 (1.1-1.9) | 5.4 (1.7-9.0) | 1.5 (1.1-1.8) |
| 960.0-3,054.9 | 1.0 (0.0-2.2) | 1.1 (1.0-1.3) | 2.2 (0.7-3.7) | 1.1 (0.9-1.3) |
| 3,055.0-7,299.9 | 1.6 (0.2-3.0) | 0.5 (0.4-0.6) | 0.0 (0.0-0.0) | 0.5 (0.4-0.6) |
| ≥7,300.0 | 0.0 (0.0-0.0) | 0.4 (0.1-0.8) | 0.0 (0.0-0.0) | 0.4 (0.1-0.8) |
| Cumulative probability (95% CI) at 5 years | 3.0 (1.8-4.2) | 2.8 (2.6-3.0) | 3.8 (2.6-5.0) | 2.7 (2.6-2.9) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 2.5 (1.1- 3.9) | 1.8 (1.6-2.0) | 2.3 (1.0-3.5) | 1.8 (1.6-2.0) |
| >0-4.9 | 4.6 (0.6- 8.4) | 3.3 (2.7-3.8) | 4.0 (0.8-7.0) | 3.3 (2.7-3.8) |
| 5.0-14.9 | 2.4 (0.0- 4.6) | 4.6 (4.0-5.1) | 6.1 (2.5-9.6) | 4.5 (3.9-5.0) |
| 15.0-24.9 | 6.6 (0.0-15.0) | 6.4 (4.8-8.0) | 11.0 (0.0-21.0) | 6.3 (4.7-7.9) |
| ≥25.0 | 4.5 (0.0-12.9) | 7.3 (4.6-9.8) | 14.0 (0.0-27.6) | 7.0 (4.3-9.5) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 1.1 (0.2-2.0) | 1.1 (1.0-1.3) | 1.2 (0.4-2.0) | 1.1 (1.0-1.3) |
| >0-959.9 | 7.7 (1.5-13.5) | 5.4 (4.4-6.3) | 9.9 (4.0-15.3) | 5.3 (4.4-6.3) |
| 960.0-3,054.9 | 5.5 (0.9-9.9) | 9.3 (8.0-10.5) | 13.0 (5.6-19.8) | 9.1 (7.8-10.4) |
| ≥3,055.0 | 10.8 (1.1-19.5) | 13.4 (9.9-16.8) | 5.9 (0.0-13.5) | 13.7 (10.0-17.1) |
| Total cumulative dose | | | | |
| nonuse (ref) | 1.0 (0.0-2.9) | 3.4 (2.8-4.0) | 5.5 (0.6-10.2) | 3.3 (2.7-3.9) |
| >0-959.9 | 8.1 (2.4-13.4) | 3.8 (3.1-4.4) | 7.5 (2.9-11.9) | 3.7 (3.1-4.4) |
| 960.0-3,054.9 | 4.4 (1.1-7.5) | 3.6 (3.1-4.0) | 6.9 (3.3-10.3) | 3.5 (3.0-4.0) |
| 3,055.0-7,299.9 | 3.4 (1.0-5.7) | 2.8 (2.4-3.1) | 2.1 (0.4-3.7) | 2.8 (2.4-3.1) |
| ≥7,300.0 | 0.0 (0.0-0.0) | 1.4 (1.2-1.7) | 0.8 (0.0-1.9) | 1.4 (1.2-1.7) |
| Cumulative probability (95% CI) at 10 years | 4.4 (2.7-6.1) | 4.2 (4.0-4.5) | 5.6 (3.9-7.3) | 4.2 (3.9-4.5) |

| | | | | |
|--|------------------|---------------------|-------------------|----------------------|
| Current daily dose, mg | | | | |
| nonuse (ref) | 3.4 (1.5-5.2) | 3.0 (2.7-3.3) | 3.6 (1.9-5.3) | 3.0 (2.7-3.3) |
| >0-4.9 | 6.3 (0.9-11.5) | 5.3 (4.4-6.2) | 8.5 (1.9-14.7) | 5.2 (4.3-6.1) |
| 5.0-14.9 | 4.5 (0.0-9.0) | 6.9 (5.9-7.8) | 7.0 (2.9-10.9) | 6.8 (5.8-7.8) |
| 15.0-24.9 | 6.8 (0.0-15.4) | 9.7 (6.7-12.6) | 19.1 (0.0-35.2) | 9.3 (6.3-12.1) |
| ≥25.0 | 20.3 (0.0-44.8) | 11.2 (6.7-15.5) | 18.4 (0.0-35.4) | 11.4 (6.8-15.8) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 2.1 (0.6-3.6) | 2.3 (2.0-2.6) | 2.6 (1.1-4.1) | 2.3 (2.0-2.5) |
| >0-959.9 | 7.6 (1.6-13.3) | 6.6 (5.4-7.9) | 17.6 (6.5-27.4) | 6.4 (5.1-7.6) |
| 960.0-3,054.9 | 7.1 (0.2-13.7) | 10.5 (8.6-12.3) | 9.1 (4.4-13.5) | 10.5 (8.6-12.3) |
| ≥3,055.0 | 17.0 (0.0-33.4) | 10.5 (6.2-14.7) | 3.2 (0.0-7.5) | 10.9 (6.7-14.9) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 1.1 (0.0-3.2) | 5.3 (4.3-6.3) | 6.2 (0.6-11.5) | 5.2 (4.2-6.1) |
| >0-959.9 | 10.0 (3.3-16.3) | 5.7 (4.6-6.7) | 9.8 (3.5-15.7) | 5.6 (4.6-6.7) |
| 960.0-3,054.9 | 5.8 (1.6-9.9) | 5.2 (4.4-5.9) | 9.5 (4.5-14.2) | 5.0 (4.3-5.7) |
| 3,055.0-7,299.9 | 3.6 (1.1-6.1) | 4.0 (3.5-4.6) | 4.0 (0.9-7.0) | 4.0 (3.5-4.6) |
| ≥7,300.0 | 2.4 (0.0-5.1) | 2.9 (2.5-3.3) | 2.6 (0.5- 4.6) | 2.9 (2.4-3.3) |
| Fungal infections | Rectal GC | No rectal GC | Topical GC | No topical GC |
| Incident infections, n (%) | 197 | 5219 | 269 | 5147 |
| Cumulative probability (95% CI) at 1 year | 7.4 (5.6-9.0) | 3.8 (3.6-4.0) | 6.7 (5.2-8.1) | 3.8 (3.6-4.0) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 4.0 (2.0-6.0) | 2.4 (2.2-2.6) | 4.4 (2.5-6.3) | 2.4 (2.1-2.6) |
| >0-4.9 | 8.9 (4.5-13.1) | 3.9 (3.5-4.4) | 7.2 (3.6-10.7) | 3.9 (3.5-4.4) |
| 5.0-14.9 | 10.0 (6.3-13.6) | 4.6 (4.2-5.0) | 8.1 (5.0-11.1) | 4.6 (4.2-5.0) |
| 15.0-24.9 | 11.3 (3.0-18.9) | 7.2 (6.1-8.3) | 10.2 (3.2-16.7) | 7.2 (6.1-8.3) |
| ≥25.0 | 8.6 (0.0-17.4) | 8.5 (6.7-10.3) | 12.4 (0.2-23.2) | 8.4 (6.6-10.2) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 1.4 (0.6-2.3) | 0.8 (0.7-0.9) | 0.8 (0.2-1.4) | 0.9 (0.7-1.0) |
| >0-959.9 | 22.1 (11.4-31.6) | 12.7 (11.3-14.0) | 36.6 (25.5-46.0) | 12.0 (10.7-13.4) |
| 960.0-3,054.9 | 29.6 (20.1-38.0) | 20.0 (18.6-21.4) | 29.6 (18.7-39.0) | 20.1 (18.6-21.5) |
| ≥3,055.0 | 35.7 (12.9-52.5) | 24.1 (21.0-27.0) | 34.9 (9.0-53.5) | 24.1 (21.0-27.0) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 7.7 (3.0-12.2) | 4.3 (3.7-4.8) | 3.8 (0.8-6.7) | 4.3 (3.8-4.9) |
| >0-959.9 | 10.1 (4.7-15.1) | 6.5 (5.8-7.2) | 18.8 (12.5-24.7) | 6.2 (5.5-6.9) |
| 960.0-3,054.9 | 10.1 (6.7-13.3) | 5.1 (4.7-5.5) | 7.3 (4.5-9.9) | 5.1 (4.7-5.5) |

| | | | | |
|--|-------------------------|-------------------------|-------------------------|-------------------------|
| 3,055.0-7,299.9 | 3.7 (1.5- 5.9) | 1.8 (1.6-2.0) | 2.6 (1.0-4.2) | 1.8 (1.6-2.0) |
| ≥7,300.0 | 0.0 (0.0- 0.0) | 1.4 (0.8-2.0) | 0.0 (0.0-0.0) | 1.4 (0.8-2.0) |
| Cumulative probability (95% CI) at 5 years | 22.7 (19.4-25.8) | 13.5 (13.1-13.9) | 22.5 (19.7-25.2) | 13.4 (13.0-13.8) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 16.3 (12.6-19.9) | 9.2 (8.8-9.6) | 17.4 (14.1-20.6) | 9.1 (8.7-9.6) |
| >0-4.9 | 35.7 (25.2-44.8) | 18.1 (16.9-19.3) | 28.8 (20.7-36.1) | 18.2 (17.0-19.4) |
| 5.0-14.9 | 30.4 (22.2-37.7) | 20.2 (19.1-21.3) | 30.1 (22.6-36.8) | 20.2 (19.1-21.3) |
| 15.0-24.9 | 28.8 (9.5-44.0) | 27.7 (24.5-30.7) | 31.5 (14.1-45.4) | 27.7 (24.5-30.7) |
| ≥25.0 | 21.2 (0.0-39.0) | 26.9 (22.7-30.8) | 32.8 (10.5-49.6) | 26.5 (22.3-30.5) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 10.6 (7.7-13.4) | 6.2 (5.8-6.5) | 10.5 (8.0-12.9) | 6.1 (5.8-6.5) |
| >0-959.9 | 47.3 (29.6-60.5) | 26.1 (24.3-28.0) | 46.9 (37.0-55.3) | 26.0 (24.1-27.9) |
| 960.0-3,054.9 | 57.3 (42.0-68.7) | 36.4 (34.5-38.3) | 49.7 (37.4-59.5) | 36.5 (34.5-38.4) |
| ≥3,055.0 | 47.3 (25.9-62.5) | 45.1 (40.4-49.4) | 54.7 (33.4-69.1) | 45.0 (40.2-49.3) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 31.6 (19.6-41.8) | 15.2 (14.0-16.4) | 28.0 (17.7-37.1) | 15.2 (14.0-16.4) |
| >0-959.9 | 21.9 (13.1-29.8) | 17.2 (15.8-18.5) | 37.4 (28.3-45.4) | 16.5 (15.2-17.8) |
| 960.0-3,054.9 | 28.3 (21.1-34.9) | 17.7 (16.8-18.7) | 30.8 (24.3-36.8) | 17.6 (16.7-18.6) |
| 3,055.0-7,299.9 | 22.7 (16.5-28.4) | 13.6 (12.8-14.3) | 18.6 (13.7-23.3) | 13.6 (12.9-14.4) |
| ≥7,300.0 | 12.1 (6.8-17.1) | 7.4 (6.8-8.0) | 9.3 (5.3-13.1) | 7.4 (6.8-8.0) |
| Cumulative probability (95% CI) at 10 years | 31.7 (27.3-35.9) | 21.0 (20.4-21.6) | 34.1 (30.0-38.0) | 20.8 (20.2-21.4) |
| Current daily dose, mg | | | | |
| nonuse (ref) | 24.9 (19.6-29.8) | 16.0 (15.3-16.7) | 29.2 (24.1-33.9) | 15.8 (15.1-16.5) |
| >0-4.9 | 45.6 (31.5-56.8) | 28.1 (26.2-30.0) | 42.5 (31.0-52.1) | 28.0 (26.1-29.9) |
| 5.0-14.9 | 40.8 (29.3-50.4) | 29.1 (27.5-30.8) | 37.5 (27.4-46.3) | 29.2 (27.5-30.8) |
| 15.0-24.9 | 27.8 (9.1-42.6) | 36.2 (31.9-40.2) | 52.0 (22.8-70.1) | 35.6 (31.3-39.6) |
| ≥25.0 | 42.9 (3.4-66.2) | 36.5 (30.2-42.3) | 37.8 (12.0-56.1) | 36.7 (30.3-42.5) |
| Cumulative dose in last year, mg | | | | |
| nonuse (ref) | 20.6 (15.7-25.2) | 13.2 (12.5-13.8) | 23.9 (19.1-28.5) | 13.0 (12.4-13.6) |
| >0-959.9 | 39.9 (26.0-51.1) | 32.8 (30.1-35.3) | 57.8 (40.0-70.3) | 32.1 (29.5-34.6) |
| 960.0-3,054.9 | 62.3 (39.6-76.4) | 37.3 (34.9-39.6) | 39.9 (30.1-48.4) | 37.8 (35.4-40.1) |
| ≥3,055.0 | 47.5 (22.4-64.5) | 47.0 (40.4-52.8) | 48.2 (30.7-61.3) | 46.6 (40.1-52.4) |
| Total cumulative dose, mg | | | | |
| nonuse (ref) | 43.9 (27.8-56.4) | 22.8 (20.9-24.6) | 34.7 (22.5-44.9) | 22.9 (21.0-24.7) |
| >0-959.9 | 33.3 (19.5-44.7) | 26.0 (23.9-28.0) | 47.5 (35.4-57.3) | 25.4 (23.3-27.3) |

| | | | | |
|-----------------|------------------|------------------|------------------|------------------|
| 960.0-3,054.9 | 34.5 (25.4-42.5) | 25.8 (24.4-27.2) | 45.9 (35.6-54.5) | 25.3 (23.9-26.8) |
| 3,055.0-7,299.9 | 34.8 (24.9-43.4) | 21.2 (20.1-22.4) | 31.4 (22.5-39.2) | 21.3 (20.1-22.4) |
| ≥7,300.0 | 20.4 (13.1-27.1) | 14.7 (13.7-15.6) | 21.0 (14.4-27.2) | 14.6 (13.6-15.6) |

Note: CI, confidence interval; GC, glucocorticoids; IQR, interquartile range. Estimates are shown for time-variant prednisolone-equivalent dosage.