**Appendices**

Appendix Table 1. Characteristics of patients at baseline, ART initiation, death, non-AIDS death, HIV-CAUSAL Collaboration 2005-2015.

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|  |  | **General HIV population** | **U.S. Veterans** |
| **At baseline** | N | 6927 | 2672 |
|  | CD4 count | 354 [203,530] | 284 [128,471] |
|  | Calendar year | 2008 [2006,2011] | 2008 [2006,2010] |
|  | Age | 55 [52,59] | 56 [53,60] |
|  | HIV-RNA | 50946 [11700,207703] | 37859 [9653,112879] |
| **At ART initiation** | N | 5160 | 2087 |
|  | CD4 count | 272 [171,375] | 229 [108,356] |
|  | HIV-RNA | 71559 [17000,220895] | 57600 [14652,161000] |
| **At death** | N | 295 | 339 |
|  | CD4 count | 340 [180,498] | 225 [84,441] |
|  | HIV-RNA | 90 [40,20400] | 2392 [50,60500] |
| **At non-AIDS death** | N | 124 | 136 |
|  | CD4 count | 360 [240,497] | 329 [179,520] |
|  | HIV-RNA | 50 [40,22803] | 344 [48,18323] |

Appendix Table 2. Estimated 5-year risks of non-AIDS mortality under three ART initiation strategies assuming that deaths due to an unknown cause were non-AIDS deaths, HIV-CAUSAL Collaboration 2005-2015.

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|  |  | **Non-AIDS mortality (main analysis)** | | | **Non-AIDS mortality (sensitivity analysis)** | | |
| **Population** | **ART initiation strategy** | **5-year Risk, % (95% CI)** | **Risk difference (95% CI)** | **Risk ratio (95% CI)** | **5-year Risk, % (95% CI)** | **Risk difference (95% CI)** | **Risk ratio (95% CI)** | |
|
| **General HIV population (N=6927)** | Immediate universal | 2.7% (2.1,3.4) | 0 (Ref.) | 1 (Ref.) | 3.8% (3.3,4.6) | 0 (Ref.) | 1 (Ref.) | |
| <500 cells/mm3 | 2.8% (2.2,3.5) | 0.07 (-0.03,0.16) | 1.03 (0.99,1.06) | 3.9% (3.4,4.6) | 0.10 (-0.02,0.22) | 1.02 (1.1,1.06) | |
| <350 cells/mm3 | 2.9% (2.3,3.7) | 0.17 (-0.07,0.43) | 1.06 (0.97,1.16) | 4.0% (3.7,4.8) | 0.21 (-0.05,0.61) | 1.05 (0.99,1.17) | |
| **US Veterans (N=2669)** | Immediate universal | 6.6% (5.2,8.9) | 0 (Ref.) | 1 (Ref.) | 9.2% (8.2,11.5) | 0 (Ref.) | 1 (Ref.) | |
| <500 cells/mm3 | 7.0% (5.6,9.2) | 0.40 (0.13,0.84) | 1.06 (1.02,1.13) | 9.6% (8.7,11.8) | 0.39 (0.17,0.61) | 1.04 (1.02,1.17) | |
| <350 cells/mm3 | 7.6% (6.4,9.9) | 1.00 (0.31,2.00) | 1.15 (1.04,1.30) | 10.2% (9.0,12.3) | 1.03 (0.48,1.58) | 1.11 (1.05,1.18) | |

Appendix Figure 1. a. Mean of the all-cause mortality outcome and time-varying variables in the general HIV population: observed (solid line) and simulated via the parametric g-formula (dashed line).

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Appendix Figure 1. b. Mean of the all-cause mortality outcome and time-varying variables in the US Veteran population: observed (solid line) and simulated via the parametric g-formula (dashed line).

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Appendix Figure 2. a. Mean of the non-AIDS mortality outcome and time-varying variables in the general HIV population: observed (solid line) and simulated via the parametric g-formula (dashed line).

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Appendix Figure 2. b. Mean of the non-AIDS mortality outcome and time-varying variables in the US Veteran population: observed (solid line) and simulated via the parametric g-formula (dashed line).

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Appendix Figure 3. Mean of the all-cause mortality outcome and time-varying variables in the general HIV population with baseline CD4 cell count≥500 cells/mm3: observed (solid line) and simulated via the parametric g-formula (dashed line).

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**Appendix 5**

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**SWISS HIV COHORT STUDY**Aubert V, Battegay M, Bernasconi E, Böni J, Braun DL, Bucher HC, Calmy A, Cavassini M, Ciuffi A, Dollenmaier G, Egger M, Elzi L, Fehr J, Fellay J, Furrer H (Chairman of the Clinical and Laboratory Committee), Fux CA, Günthard HF (President of the SHCS), Haerry D (deputy of "Positive Council"), Hasse B, Hirsch HH, Hoffmann M, Hösli I, Kahlert C, Kaiser L, Keiser O, Klimkait T, Kouyos RD, Kovari H, Ledergerber B, Martinetti G, Martinez de Tejada B, Marzolini C, Metzner KJ, Müller N, Nicca D, Pantaleo G, Paioni P, Rauch A (Chairman of the Scientific Board), Rudin C (Chairman of the Mother & Child Substudy), Scherrer AU (Head of Data Centre), Schmid P, Speck R, Stöckle M, Tarr P, Trkola A, Vernazza P, Wandeler G, Weber R, Yerly S.

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Steering Committee: Jonathan Ainsworth, Sris Allan, Jane Anderson, Abdel Babiker, David Chadwick, Valerie Delpech, David Dunn, Martin Fisher, Brian Gazzard, Richard Gilson, Mark Gompels, Phillip Hay, Teresa Hill, Margaret Johnson, Sophie Jose, Stephen Kegg, Clifford Leen, Fabiola Martin, Mark Nelson, Chloe Orkin, Adrian Palfreeman, Andrew Phillips, Deenan Pillay, Frank Post, Jillian Pritchard, Caroline Sabin, Achim Schwenk, Anjum Tariq, Roy Trevelion, John Walsh. Central Co-ordination: University College London (Teresa Hill, Sophie Jose, Andrew Phillips, Caroline Sabin); Medical Research Council Clinical Trials Unit at UCL (MRC CTU at UCL), London (David Dunn, Adam Glabay). Participating Centres: Brighton and Sussex University Hospitals NHS Trust (M Fisher, N Perry, S Tilbury, E Youssef, D Churchill); Chelsea and Westminster Hospital NHS Foundation Trust, London (B Gazzard, M Nelson, R Everett, D Asboe, S Mandalia); King’s College Hospital NHS Foundation Trust, London (F Post, H Korat, C Taylor, Z Gleisner, F Ibrahim, L Campbell); Mortimer Market Centre, University College London (R Gilson, N Brima, I Williams); Royal Free NHS Foundation Trust/University College London (M Johnson, M Youle, F Lampe, C Smith, R Tsintas, C Chaloner, S Hutchinson, C Sabin, A Phillips T Hill, S Jose); Imperial College Healthcare NHS Trust, London (J Walsh, N Mackie, A Winston, J Weber, F Ramzan, M Carder); Barts and The London NHS Trust, London (C Orkin, J Lynch, J Hand, C de Souza); Homerton University Hospital NHS Trust, London (J Anderson, S Munshi); North Middlesex University Hospital NHS Trust, London (J Ainsworth, A Schwenk, S Miller, C Wood); The Lothian University Hospitals NHS Trust, Edinburgh (C Leen, A Wilson, S Morris); North Bristol NHS Trust (M Gompels, S Allan); Leicester, University Hospitals of Leicester NHS Trust (A Palfreeman, K Memon, A Lewszuk); Middlesbrough, South Tees Hospitals NHS Foundation Trust, (D Chadwick, E Cope, J Gibson); Woolwich, Lewisham and Greenwich NHS Trust (S Kegg, P Main, Dr Mitchell, Dr Hunter), St. George’s Healthcare NHS Trust (P Hay, M Dhillon); York Teaching Hospital NHS Foundation Trust (F Martin, S Russell-Sharpe); Coventry, University Hospitals Coventry and Warwickshire NHS Trust (S Allan, A Harte, S Clay); Wolverhampton, The Royal Wolverhampton Hospitals NHS Trust (A Tariq, H Spencer, R Jones); Chertsey, Ashford and St.Peter’s Hospitals NHS Foundation Trust (J Pritchard, S Cumming, C Atkinson); Public Health England, London (V Delpech); HIV i-base (R Trevelion).

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**Veterans Aging Cohort Study-Virtual Cohort**

Principal investigator and co-principal investigator: AC Justice, DA Fiellin. Participating VA centers: Atlanta, GA (D. Rimland, C Jones-Taylor), Baltimore, MD (KA Oursler, R Titanji), Bronx, NY (S Brown, S Garrison), Houston, TX (M Rodriguez-Barradas, N Masozera), Los Angeles, CA (M Goetz, D Leaf), Manhattan-Brooklyn, NY (M Simberkoff, D Blumenthal, J Leung), Pittsburgh, PA (A Butt, E Hoffman), and Washington, DC (C Gibert, R Peck). Core Faculty: K Mattocks (Deputy Director), S Braithwaite, C Brandt, K Bryant, R Cook, J Conigliaro, K Crothers, J Chang, S Crystal, N Day, J Erdos, M Freiberg, M Kozal, N Gandhi, M Gaziano, M Gerschenson, B Good, A Gordon, JL Goulet, MA Hernán, K Kraemer, J Lim, S Maisto, P Miller, L Mole, P O’Connor, R Papas, JM Robins, C Rinaldo, M Roberts, J Samet, B Tierney, J Whittle.