
Integrating noncommunicable disease prevention and care into global health initiatives and universal health coverage

Title Prefix: FROM SILOES TO SYNERGIES:

Langue Anglais

Subtitle: Policy Research Report

Read Link Text: Read the report

Download Link Text: DOWNLOAD THE REPORT

References:

1. Benziger CP, Roth GA, Moran AE. The Global Burden of Disease Study and the Preventable Burden of NCD. *Glob Heart* 2016;11(4):393-97. doi: 10.1016/j.gheart.2016.10.024 [published Online First: 2016/12/13]
2. WHA62.12. Primary health care, including health system strengthening. In: Sixty-second World Health Assembly, Geneva, Switzerland, 22 May 2009. Geneva: World Health Organization; 2009. Available at: https://www.who.int/hrh/resources/A62_12_EN.pdf.
3. Bukhman G, Mocumbi AO, Atun R, et al. The Lancet NCDI Poverty Commission: bridging a gap in universal health coverage for the poorest billion. *Lancet* 2020;396(10256):991-1044. doi: 10.1016/s0140-6736(20)31907-3 [published

Online First: 2020/09/18]

4. United Nations. Political Declaration of the UN General Assembly on HIV and AIDS: Ending Inequalities and Getting on Track to EndAIDS by 2030 (document A/75/L.95). June 2021.
5. International Diabetes Federation. IDF Diabetes Atlas, 9th edn. Brussels, Belgium: International Diabetes Federation, 2019, 2019.
6. Ngo VK, Rubinstein A, Ganju V, et al. Grand challenges: Integrating mental health care into the non-communicable disease agenda. *PLoS Med* 2013;10(5):e1001443. doi: 10.1371/journal.pmed.1001443 [published Online First: 2013/05/22]
7. UNAIDS. 2016–2021 Strategy: On the Fast-Track to end AIDS.
8. United Nations. Political declaration of the UN General Assembly High-level meeting on the fight against Tuberculosis 26 SEPTEMBER 2018, UNHQ, NEW YORK/RES/73/3
9. Patel P, Rose CE, Collins PY, et al. Noncommunicable diseases among HIV-infected persons in low-income and middle-income countries: a systematic review and meta-analysis. *AIDS* 2018;32 Suppl 1:S5-S20. doi: 10.1097/QAD.0000000000001888 [published Online First: 2018/06/29]
10. Belayneh Z, Mekuriaw B, Mehare T, et al. Magnitude and predictors of common mental disorder among people with HIV/ AIDS in Ethiopia: a systematic review and meta-analysis. *BMC Public Health* 2020;20(1):689. doi: 10.1186/s12889-020-08800-8 [published Online First: 2020/05/16]
11. Shah ASV, Stelzle D, Lee KK, et al. Global Burden of Atherosclerotic Cardiovascular Disease in People Living With HIV: Systematic Review and Meta-Analysis. *Circulation* 2018;138(11):1100-12. doi: 10.1161/circulationaha.117.033369 [published Online First: 2018/07/04]
12. Gonzalez JS, Batchelder AW, Psaros C, et al. Depression and HIV/AIDS treatment nonadherence: a review and meta-analysis. *Journal of acquired immune deficiency syndromes (1999)* 2011;58(2)
13. Velloza J, Hosek S, Donnell D, et al. Assessing longitudinal patterns of depressive symptoms and the influence of symptom trajectories on HIV pre-exposure prophylaxis adherence among adolescent girls in the HPTN 082 randomized controlled trial. *Journal of the International AIDS Society* 2021;24 Suppl 2(Suppl2):e25731-e31. doi: 10.1002/jia2.25731
14. Alene KA, Clements ACA, McBryde ES, et al. Mental health disorders, social stressors, and health-related quality of life in patients with multidrug-resistant tuberculosis: A systematic review and meta-analysis. *J Infect* 2018;77(5):357-67. doi: 10.1016/j.jinf.2018.07.007 [published Online First: 2018/07/24]
15. Marais BJ, Lönnroth K, Lawn SD, et al. Tuberculosis comorbidity with communicable and non-communicable diseases: integrating health services and control efforts. *Lancet Infect Dis* 2013;13(5):436-48. doi: 10.1016/s1473-3099(13)70015-x [published Online First: 2013/03/28]
16. Workneh MH, Bjune GA, Yimer SA. Prevalence and associated factors of tuberculosis and diabetes mellitus comorbidity: A systematic review. *PLoS One* 2017;12(4):e0175925. doi: 10.1371/journal.pone.0175925 [published Online First: 2017/04/22]
17. Ambaw F, Mayston R, Hanlon C, et al. Untreated depression and tuberculosis treatment outcomes, quality of life and disability, Ethiopia. *Bulletin of the World Health Organization* 2018;96(4):243- 55. doi: 10.2471/BLT.17.192658 [published Online First: 2018/02/05]
18. Retnakaran R, Shah BR. Mild glucose intolerance in pregnancy and risk of cardiovascular disease: a population-based cohort study. *Cmaj* 2009;181(6-7):371-6. doi: 10.1503/cmaj.090569 [published Online First: 2009/08/26]
19. Kapur A. Links between maternal health and NCDs. *Best Pract Res Clin Obstet Gynaecol* 2015;29(1):32-42. doi: 10.1016/j.bpobgyn.2014.04.016 [published Online First: 2014/09/10]

20. Parkinson JRC, Emsley R, Adkins JLT, Longford N, Ozanne SE, Holmes E, Modi N. Clinical and molecular evidence of accelerated ageing following very preterm birth. *Pediatr Res*. 2020 May;87(6):1005-1010. doi: 10.1038/s41390-019-0709-9. Epub 2019 Dec 7. PMID: 31812156.
21. Bukhman G, Mocumbi AO, Atun R, et al. The Lancet NCDI Poverty Commission: bridging a gap in universal health coverage for the poorest billion. *The Lancet* 2020;396(10256):991-1044.
22. Flood D, Seigle JA, Dunn M, et al. The state of diabetes treatment coverage in 55 low-income and middle-income countries: a cross-sectional study of nationally representative, individual-level data in 680 102 adults. *The Lancet Healthy Longevity* 2021;2(6):e340-e51.
23. Hunt D, Hemmingsen B, Matzke A, et al. The WHO Global Diabetes Compact: a new initiative to support people living with diabetes. *The Lancet Diabetes & Endocrinology* 2021;9(6):325-27.
24. Allen LN, Nicholson BD, Yeung BY, et al. Implementation of noncommunicable disease policies: a geopolitical analysis of 151 countries. *The Lancet Global Health* 2020;8(1):e50-e58.
25. Attaei MW, Khatib R, McKee M, et al. Availability and affordability of blood pressure-lowering medicines and the effect on blood pressure control in high-income, middle-income, and low-income countries: an analysis of the PURE study data. *The Lancet Public Health* 2017;2(9):e411-e19.
26. Organization WH. WHO framework for strengthening and scalingup of services for the management of invasive cervical cancer. 2020
27. Davis SM, Habel MA, Pretorius C, et al. Brief Report: Modeling the Impact of Voluntary Medical Male Circumcision on Cervical Cancer in Uganda. *Journal of Acquired Immune Deficiency Syndromes (1999)* 2021;86(3):323.
28. de Jongh T, Gurol-Urganci I, Allen E, et al. Barriers and enablers to integrating maternal and child health services to antenatal care in low and middle income countries. *BJOG: An International Journal of Obstetrics & Gynaecology* 2016;123(4):549-57. doi: <https://doi.org/10.1111/1471-0528.13898> [2]
29. Duffy M, Ojikutu B, Andrian S, et al. Non-communicable diseases and HIV care and treatment: models of integrated service delivery. *Trop Med Int Health* 2017;22(8):926-37. doi: 10.1111/tmi.12901 [published Online First: 2017/05/26]
30. Janssens B, Van Damme W, Raleigh B et al. . Offering integrated care for HIV/AIDS, diabetes and hypertension within chronic disease clinics in Cambodia. *Bull World Health Org* 2007;85(11):880-5.
31. Parham GP, Mwanahamuntu MH, Sahasrabudde VV, et al. Implementation of cervical cancer prevention services for HIVinfected women in Zambia: measuring program effectiveness. *HIV Ther* 2010;4(6):703-22. doi: 10.2217/hiv.10.52 [published Online First: 2010/01/01]
32. Sigfrid L, Murphy G, Haldane V, et al. Integrating cervical cancer with HIV healthcare services: A systematic review. *PLoS One* 2017;12(7):e0181156. doi: 10.1371/journal.pone.0181156 [published Online First: 2017/07/22]
33. Kosgei RJ, Lubano KM, Shen C, et al. Impact of integrated family planning and HIV care services on contraceptive use and pregnancy outcomes: a retrospective cohort study. *J Acquir Immune Defic Syndr* 2011;58(5):e121-6. doi: 10.1097/QAI.0b013e318237ca80 [published Online First: 2011/10/04]
34. Lê G, Morgan R, Bestall J, et al. Can service integration work for universal health coverage? Evidence from around the globe. *Health Policy* 2016;120(4):406-19. doi: 10.1016/j.healthpol.2016.02.007 [published Online First: 2016/04/25]
35. Nugent R, Barnabas RV, Golovaty I, et al. Costs and costeffectiveness of HIV/noncommunicable disease integration in Africa: from theory to practice. *Aids* 2018;32 Suppl 1(Suppl 1):S83-s92. doi: 10.1097/qad.0000000000001884 [published Online First: 2018/06/29]
36. Marseille E, Lohse N, Jiwani A, et al. The cost-effectiveness of gestational diabetes screening including prevention of type 2 diabetes: application of a new model in India and Israel. *J Matern Fetal Neonatal Med* 2013;26(8):802-10.

doi: 10.3109/14767058.2013.765845 [published Online First: 2013/01/15]

37. Haldane V, Cervero-Liceras F, Chuah FL, et al. Integrating HIV and substance use services: a systematic review. *J Int AIDS Soc* 2017;20(1):21585. doi: 10.7448/IAS.20.1.21585 [published Online First: 2017/07/12]

38. Haldane V, Legido-Quigley H, Chuah FLH, et al. Integrating cardiovascular diseases, hypertension, and diabetes with HIV services: a systematic review. *AIDS Care* 2018;30(1):103-15. doi: 10.1080/09540121.2017.1344350 [published Online First: 2017/07/07]

39. Odafe S, Torpey K, Khamofu H, et al. Integrating cervical cancer screening with HIV care in a district hospital in Abuja, Nigeria. *Niger Med J* 2013;54(3):176-84. doi: 10.4103/0300-1652.114590 [published Online First: 2013/08/01]

40. Bygrave H, Golob L, Wilkinson L, et al. Let's talk chronic disease: can differentiated service delivery address the syndemics of HIV, hypertension and diabetes? *Current Opinion in HIV and AIDS* 2020;15(4):256-60. doi: 10.1097/coh.0000000000000629

41. Topp SM, Abimbola S, Joshi R, et al. How to assess and prepare health systems in low- and middle-income countries for integration of services-a systematic review. *Health Policy Plan* 2018;33(2):298-312. doi: 10.1093/heapol/czx169 [published Online First: 2017/12/23]

42. Watt N, Sigfrid L, Legido-Quigley H, et al. Health systems facilitators and barriers to the integration of HIV and chronic disease services: a systematic review. *Health Policy Plan* 2017;32(suppl_4):iv13-iv26. doi: 10.1093/heapol/czw149 [published Online First: 2017/07/02]

43. <https://apps.who.int/iris/handle/10665/340190> [3].

44. Parham GP, Mwanahamuntu MH, Kapambwe S, et al. Populationlevel scale-up of cervical cancer prevention services in a lowresource setting: development, implementation, and evaluation of the cervical cancer prevention program in Zambia. *PLoS One* 2015;10(4):e0122169. doi: 10.1371/journal.pone.0122169 [published Online First: 2015/04/18]

45. Pastakia SD, Ali SM, Kamano JH, et al. Screening for diabetes and hypertension in a rural low income setting in western Kenya utilizing home-based and community-based strategies. *Global Health* 2013;9:21-21. doi: 10.1186/1744-8603-9-21

46. Owiti P, Keter A, Harries AD, et al. Diabetes and pre-diabetes in tuberculosis patients in western Kenya using point-of-care glycosylated haemoglobin. *Public Health Action* 2017;7(2):147-54. doi: 10.5588/pha.16.0114 [published Online First: 2017/07/12]

47. Pastakia SD, Cheng SY, Kirui NK, et al. Dynamics, Impact, and Feasibility of Self-Monitoring of Blood Glucose in the Rural, Resource-Constrained Setting of Western Kenya. *Clinical Diabetes* 2015;33(3):136. doi: 10.2337/diaclin.33.3.136

48. Vedanthan R, Kamano JH, Bloomfield GS, et al. Engaging the Entire Care Cascade in Western Kenya: A Model to Achieve the Cardiovascular Disease Secondary Prevention Roadmap Goals. *Glob Heart* 2015;10(4):313-17. doi: 10.1016/j.gheart.2015.09.003

49. Pastakia SD, Nuche-Berenguer B, Pekny CR, et al. Retrospective assessment of the quality of diabetes care in a rural diabetes clinic in Western Kenya. *BMC Endocr Disord* 2018;18(1):97-97. doi: 10.1186/s12902-018-0324-5

50. Njuguna B, Vorkoper S, Patel P, et al. Models of integration of HIV and noncommunicable disease care in sub-Saharan Africa: lessons learned and evidence gaps. *Aids* 2018;32 Suppl 1(Suppl 1):S33-s42. doi: 10.1097/qad.0000000000001887 [published Online First: 2018/06/29]

51. Manji I, Manyara SM, Jakait B, et al. The Revolving Fund Pharmacy Model: backing up the Ministry of Health supply chain in western Kenya. *Int J Pharm Pract* 2016;24(5):358-66. doi: 10.1111/ijpp.12254 [published Online First: 2016/02/26]

52. Tran DN, Manji I, Njuguna B, et al. Solving the problem of access to cardiovascular medicines: revolving fund

pharmacy models in rural western Kenya. *BMJ Glob Health* 2020;5(11) doi: 10.1136/bmjgh-2020-003116 [published Online First: 2020/11/21]

53. Pastakia SD, Manyara SM, Vedanthan R, et al. Impact of Bridging Income Generation with Group Integrated Care (BIGPIC) on Hypertension and Diabetes in Rural Western Kenya. *Journal of general internal medicine* 2017;32(5):540-48. doi: 10.1007/s11606-016-3918-5 [published Online First: 2016/12/05]

54. Bloomfield GS, Kimaiyo S, Carter EJ, et al. Chronic noncommunicable cardiovascular and pulmonary disease in sub-Saharan Africa: an academic model for countering the epidemic. *Am Heart J* 2011;161(5):842-7. doi: 10.1016/j.ahj.2010.12.020 [published Online First: 2011/05/17]

55. Park PH, Wambui CK, Atieno S, et al. Improving Diabetes Management and Cardiovascular Risk Factors Through Peer-Led Self-management Support Groups in Western Kenya. *Diabetes Care* 2015;38(8):e110-e11. doi: 10.2337/dc15-0353

56. Osetinsky B, Genberg BL, Bloomfield GS, et al. Hypertension Control and Retention in Care Among HIV-Infected Patients: The Effects of Co-located HIV and Chronic Noncommunicable Disease Care. *J Acquir Immune Defic Syndr* 2019;82(4):399-406. doi: 10.1097/QAI.0000000000002154

57. Rachlis B, Naanyu V, Wachira J, et al. Community Perceptions of Community Health Workers (CHWs) and Their Roles in Management for HIV, Tuberculosis and Hypertension in Western Kenya. *PLoS One* 2016;11(2):e0149412-e12. doi: 10.1371/journal.pone.0149412

58. Mercer T, Njuguna B, Bloomfield GS, et al. Strengthening Referral Networks for Management of Hypertension Across the Health System (STRENGTHS) in western Kenya: a study protocol of a cluster randomized trial. *Trials* 2019;20(1):554-54. doi: 10.1186/s13063-019-3661-4

59. Heller DJ, Kumar A, Kishore SP, et al. Assessment of Barriers and Facilitators to the Delivery of Care for Noncommunicable Diseases by Nonphysician Health Workers in Low- and Middle- Income Countries: A Systematic Review and Qualitative Analysis. *JAMA Netw Open* 2019;2(12):e1916545. doi: 10.1001/jamanetworkopen.2019.16545 [published Online First: 2019/12/04]

60. Johnson M, Wilkinson J, Gardner A, et al. Global partnerships to support noncommunicable disease care in low and middleincome countries: lessons from HIV/AIDS. *Aids* 2018;32 Suppl 1:S75-s82. doi: 10.1097/qad.0000000000001880 [published Online First: 2018/06/29]

61. Ministry of Health Kenya. Kenya Health Sector Referral Implementation Guidelines 2014 [accessed 23 June 2021].

62. Vedanthan R, Blank E, Tuikong N, et al. Usability and feasibility of a tablet-based Decision-Support and Integrated Recordkeeping (DESIRE) tool in the nurse management of hypertension in rural western Kenya. *Int J Med Inform* 2015;84(3):207-19. doi: 10.1016/j.ijmedinf.2014.12.005 [published Online First: 2015/01/24]

63. Akwanalo C, Njuguna B, Mercer T, et al. Strategies for Effective Stakeholder Engagement in Strengthening Referral Networks for Management of Hypertension Across Health Systems in Kenya. *Glob Heart* 2019;14(2):173-79. doi: 10.1016/j.gheart.2019.06.003

64. Naanyu V, Vedanthan R, Kamano JH, et al. Barriers Influencing Linkage to Hypertension Care in Kenya: Qualitative Analysis from the LARK Hypertension Study. *J Gen Intern Med* 2016;31(3):304-14. doi: 10.1007/s11606-015-3566-1 [published Online First: 2016/01/06]

65. Chibanda D, Cowan F, Gibson L, et al. Prevalence and correlates of probable common mental disorders in a population with high prevalence of HIV in Zimbabwe. *BMC Psychiatry* 2016;16:55. doi: 10.1186/s12888-016-0764-2 [published Online First: 2016/03/02]

66. Chibanda D, Benjamin L, Weiss HA, et al. Mental, neurological, and substance use disorders in people living with HIV/AIDS in low- and middle-income countries. *J Acquir Immune Defic Syndr* 2014;67 Suppl 1:S54-67. doi: 10.1097/qai.0000000000000258 [published Online First: 2014/08/15]

67. Pappin M, Wouters E, Booyesen FL. Anxiety and depression amongst patients enrolled in a public sector

antiretroviral treatment programme in South Africa: a cross-sectional study. BMC Public Health 2012;12:244. doi: 10.1186/1471-2458-12-244 [published Online First: 2012/03/29]

68. Islam FM, Wu J, Jansson J, et al. Relative risk of cardiovascular disease among people living with HIV: a systematic review and meta-analysis. HIV Med 2012;13(8):453-68. doi: 10.1111/j.1468-1293.2012.00996.x [published Online First: 2012/03/15]

69. Bellamy L, Casas JP, Hingorani AD, et al. Type 2 diabetes mellitus after gestational diabetes: a systematic review and metaanalysis. Lancet 2009;373(9677):1773-9. doi: 10.1016/s0140-6736(09)60731-5 [published Online First: 2009/05/26]

70. Stelzle D, Tanaka LF, Lee KK, et al. Estimates of the global burden of cervical cancer associated with HIV. The Lancet Global Health 2021;9(2):e161-e69. doi: 10.1016/s2214-109x(20)30459-9

71. Tsai AC. Reliability and validity of depression assessment among persons with HIV in sub-Saharan Africa: systematic review and meta-analysis. J Acquir Immune Defic Syndr 2014;66(5):503-11. doi: 10.1097/QAI.0000000000000210 [published Online First: 2014/05/24]

72. Kanguru L, Bezawada N, Hussein J, et al. The burden of diabetes mellitus during pregnancy in low-and middle-income countries: a systematic review. Global Health Action 2014;7(1):23987.

73. Fisher J, Cabral de Mello M, Patel V, et al. Prevalence and determinants of common perinatal mental disorders in women in low- and lower-middle-income countries: a systematic review. Bull World Health Organ 2012;90(2):139G-49G. doi: 10.2471/BLT.11.091850 [published Online First: 2012/03/17]

74. Hussein J. Non-communicable diseases during pregnancy in low and middle income countries. Obstet Med 2017;10(1):26-29. doi: 10.1177/1753495x16684709 [published Online First: 2017/05/12]

Report Landing Page: [FROM SILOES TO SYNERGIES](#): [4]

Sections:

Pillars: **Hide pillar on landing:**

Report Files: **Version Name:** English Version

PDF:  [NCD_LEVERAGING_GLOBAL_HEALTH_WINS_8_09_FINAL\(1\).pdf](#) [5]



Report Style Class: from-silos-to-synergies

Show expanded menu:

Inline header text:

Source URL: <https://old.ncdalliance.org/fr/node/11722>

Liens

[1] <https://www.who>

[2] <https://doi.org/10.1111/1471-0528.13898>

[3] <https://apps.who.int/iris/handle/10665/340190>

[4] <https://old.ncdalliance.org/fr/node/11723>

[5] https://old.ncdalliance.org/sites/default/files/NCD_%20LEVERAGING_GLOBAL_HEALTH_WINS_8_09_FINAL%20%281%29.pdf