**COE Learning Network:** Integrated BH & PH

**Presenters:** Christine Crowell, LPC

**Date and Time:** May 8, 2024 at 12:00 pm- 1:15 pm

**Location:** Virtual Training (on Zoom)

**Host:** University of Pittsburgh, School of Pharmacy, Program and Evaluation Unit (PERU)

**Target Audience:** Centers of Excellence Leadership and Staff

**Training Objectives:**

1. Define integrated physical health & behavioral health
2. Describe how integrated physical health & behavioral health can enhance COE care
3. Describe various pathways for integrated physical health & behavioral health
4. Gain insight into how integrated physical health and behavioral health can increase health equity

**Agenda:**

1. Introduction
2. An Overview of BH & PH
	1. Relation to the COE Vision
		1. Vermont Hub and Spoke Model
		2. Social Determinants of Health
	2. Definition of integrated BH & PH
		1. The integration continuum
		2. Integrated Care Frameworks
		3. Pathways to Integrated Care
		4. Integrated Care Initiatives
3. Implementation Considerations
	1. Barriers and Challenges
	2. Organizational Health & Change: The STF Framework
	3. The Role of Care Managers & CRSs
	4. Case Examples
		1. COE Case example 1: Berks CHC
		2. COE Case example 2: Courage Medicine
		3. COE Case example 3: IM Rep
		4. COE Case example 4: Montgomery County Methadone
		5. COE Case example 5: Penns Rock
4. Benefits of Integrated BH & PH
	1. Improved Treatment Outcomes
	2. Improved Quality of Life
	3. Improved Quality of Care
5. Using Integrated BH & PH as a Health Equity tool
	1. Health Disparity
		* 1. Rural
			2. Ethnic and Racial
			3. Gender
			4. LGBTQ+
			5. Economically Disadvantaged
		1. Substance Use and Co-Occurring Conditions
		2. Pennsylvania Health Disparities
	2. Health Equity
		1. Integrated Care is evidence-based care
		2. Evidence that integrated care promotes health equity in marginalized communities
6. Conclusion
	1. Key Takeaways
	2. Questions

**References**

1. Hood, C. M., Gennuso, K. P., Swain, G. R., & Catlin, B. B. (2016). County health rankings: relationships between determinant factors and health outcomes. *American journal of preventive medicine*, *50*(2), 129-135. <https://www.sciencedirect.com/science/article/pii/S0749379715005140>
2. World Health Organization (WHO). (n.d.). Social determinants of health. Retrieved from <https://www.who.int/health-topics/social-determinants-of-health#tab=tab_1>
3. U.S. Department of Health and Human Services (HHS). (2022, December 2). *HHS Roadmap for Behavioral Health Integration:* Fact Sheet. Content created by Assistant Secretary for Planning and Evaluation (ASPE). <https://www.hhs.gov/about/news/2022/12/02/hhs-roadmap-for-behavioral-health-integration-fact-sheet.html>
4. Korthuis, P.T., McCarty, D., Weimer, M.B., Bougatsos, C., Blazina, I., Zakher, B., Grusing, S.E., Devine, B., & Chou, R. (2017). Primary Care Based Models for the Treatment of Opioid Use Disorder. *Annals of Internal Medicine, 166*, 268-278. <https://www.acpjournals.org/doi/full/10.7326/M16-2149?journalCode=aim>
5. U.S. Department of Health and Human Services (HHS). (2022, December 2). *HHS Roadmap for Behavioral Health Integration:* Fact Sheet. Content created by Assistant Secretary for Planning and Evaluation (ASPE). <https://www.hhs.gov/about/news/2022/12/02/hhs-roadmap-for-behavioral-health-integration-fact-sheet.html>
6. American Psychological Association. (2023, November). Stress in America 2023: A nation recovering from collective trauma. <https://www.apa.org/news/press/releases/stress/2023/collective-trauma-recovery>
7. CDC, National Center for Health Statistics, Office of Communication. (2022, May 11). U.S. Overdose Deaths In 2021 Increased Half as Much as in 2020 – But Are Still Up 15%. For Immediate Release. <https://www.cdc.gov/nchs/pressroom/nchs_press_releases/2022/202205.htm>
8. Health Resources & Services Administration (HRSA). (n.d.). Health professionals shortage areas (HPSA) dashboard. Retrieved from <https://data.hrsa.gov/topics/health-workforce/shortage-areas>
9. Kathol, R. G., Butler, M., McAlpine, D. D., & Kane, R. L. (2010). Barriers to physical and mental condition integrated service delivery. *Psychosomatic medicine*, *72*(6), 511–518. <https://doi.org/10.1097/PSY.0b013e3181e2c4a0>
10. Kozlowska, O., Lumb, A., Tan, G. D., & Rea, R. (2018). Barriers and facilitators to integrating primary and specialist healthcare in the United Kingdom: a narrative literature review. *Future healthcare journal*, *5*(1), 64–80. <https://doi.org/10.7861/futurehosp.5-1-64>
11. Beieler, A. M., Klein, J. W., Bhatraju, E., Iles-Shih, M., Enzian, L., & Dhanireddy, S. (2021). Evaluation of Bundled Interventions for Patients With Opioid Use Disorder Experiencing Homelessness Receiving Extended Antibiotics for Severe Infection. *Open forum infectious diseases*, *8*(6), ofab285. <https://doi.org/10.1093/ofid/ofab285>
12. Phelan, S. M., Salinas, M., Pankey, T., Cummings, G., Allen, J. P., Waniger, A., Miller, N. E., Lebow, J., Dovidio, J. F., van Ryn, M., & Doubeni, C. A. (2023). Patient and Health Care Professional Perspectives on Stigma in Integrated Behavioral Health: Barriers and Recommendations. *Annals of family medicine*, *21*(Suppl 2), S56–S60. <https://doi.org/10.1370/afm.2924>
13. Centers for Medicare & Medicaid Services (CMS). (2024, January). Innovation in Behavioral Health Model (IBH) Overview Factsheet. Retrieved from <https://www.cms.gov/files/document/ibh-fact-sheet.pdf>
14. Ridgely, Lambert, D., Goodman, A., Chichester, C. S., & Ralph, R. (1998). Interagency Collaboration in Services for People With Co-Occurring Mental Illness and Substance Use Disorder. Psychiatric Services (Washington, D.C.), 49(2), 236–238. [https://doi.org/10.1176/ps.49.2.236](https://doi.org/10.1176/ps.49.2.236%E2%80%AF)
15. Oldfielda, B.J., Muñozb, N., McGovernd, M.P., Funaroe, M., Villanuevab, M., Tetraultb, J.M., & Edelmanb, E.J. (2019). Integration of care for H IV and opioid use disorder. <https://journals.lww.com/aidsonline/fulltext/2019/04010/integration_of_care_for_hiv_and_opioid_use.12.aspx>
16. Murtagh, S., McCombe, G., Broughan, J., Carroll, Á., Casey, M., Harrold, Á., Dennehy, T., Fawsitt, R., & Cullen, W. (2021). Integrating Primary and Secondary Care to Enhance Chronic Disease Management: A Scoping Review. *International Journal of Integrated Care, 21*.
17. Stephenson, M.D., Lisy, K., Stern, C., Feyer, A.M., Fisher, L., & Aromataris, E. (2019). The impact of integrated care for people with chronic conditions on hospital and emergency department utilization: a rapid review. *International Journal of Evidence-Based Healthcare, 17*, 14–26.
18. Sadock, E., Auerbach, S. M., Rybarczyk, B., & Aggarwal, A. (2014). Evaluation of integrated psychological services in a university-based primary care clinic. *Journal of Clinical Psychology in Medical Settings, 21*(1), 19–32. <https://doi.org/10.1007/s10880-013-9378-8>
19. Friedmann, P. D., Hendrickson, J. C., Gerstein, D. R., & Zhang, Z. (2004). The effect of matching comprehensive services to patients' needs on drug use improvement in addiction treatment. *Addiction (Abingdon, England)*, *99*(8), 962–972. <https://doi.org/10.1111/j.1360-0443.2004.00772.x>
20. Gallo, J.J., Zubritsky, C.D., Maxwell, J., Nazar, M., Bogner, H.R., Quijano, L.M., Syropoulos, H.J., Cheal, K., Chen, H., Sanchez, H., Dodson, J., & Levkoff, S.E. (2004). Primary Care Clinicians Evaluate Integrated and Referral Models of Behavioral Health Care For Older Adults: Results From a Multisite Effectiveness Trial (PRISM-E). *The Annals of Family Medicine, 2*, 305 - 309.
21. Friedmann, P. D., D'Aunno, T. A., Jin, L., & Alexander, J. A. (2000). Medical and psychosocial services in drug abuse treatment: do stronger linkages promote client utilization?. *Health services research*, *35*(2), 443–465.
22. Office of Disease Prevention and Health Promotion, Office of the Assistant Secretary for Health, Office of the Secretary, U.S. Department of Health and Human Services. (n.d.). Health Equity in Healthy People 2030. Retrieved from <https://health.gov/healthypeople/priority-areas/health-equity-healthy-people-2030>
23. Richman, L., Pearson, J., Beasley, C., & Stanifer, J. (2019). Addressing health inequalities in diverse, rural communities: An unmet need. SSM - *Population Health, 7*, 100398. <https://doi.org/10.1016/j.ssmph.2019.100398>
24. Centers for Disease Control and Prevention. (n.d.). Miniorty Health. Retrieved January 30, 2024 from <https://www.cdc.gov/minorityhealth/racism-disparities/index.html#:~:text=The%20data%20show%20that%20racial,compared%20to%20their%20White%20counterparts>
25. Hayward, M. D., Crimmins, E. M., Miles, T. P., & Yang, Y. (2000). The Significance of Socioeconomic Status in Explaining the Racial Gap in Chronic Health Conditions. American Sociological Review, 65(6), 910-930. <https://doi.org/10.1177/000312240006500606>
26. Fiscella, K., & Sanders, M. R. (2016). Racial and ethnic disparities in the quality of health care. Annual Review of Public Health, 37, 375–394. <https://doi.org/10.1146/annurev-publhealth-032315-021439>
27. Substance Abuse and Mental Health Administration. (2015). Racial/ethnic differences in mental health service use among adults. HHS Publication No. SMA-15-4906. Rockville, MD <https://www.samhsa.gov/data/sites/default/files/MHServicesUseAmongAdults/MHServicesUseAmongAdults.pdf>
28. McKnight-Eily, L. R., Okoro, C. A., Strine, T. W., Verlenden, J., Hollis, N. D., Njai, R., Mitchell, E. W., Board, A., Puddy, R., & Thomas, C. (2021). Racial and ethnic disparities in the prevalence of stress and worry, mental health conditions, and increased
29. Peeler et al., 2020 Peeler, M., Gupta, M., Melvin, P., Bryant, A. S., Diop, H., Iverson, R., Callaghan, K., Wachman, E. M., Singh, R., Houghton, M., Greenfield, S. F., & Schiff, D. M. (2020). Racial and ethnic disparities in maternal and infant outcomes among opioid-exposed mother-infant dyads in massachusetts (2017-2019). American Journal of Public Health, 110(12), 1828–1836. <https://doi.org/10.2105/AJPH.2020.305888>
30. Manuel J. I. (2018). Racial/ethnic and gender disparities in health care use and access. Health Services Research, 53(3), 1407–1429. <https://doi.org/10.1111/1475-6773.12705>
31. Phimphasone-Brady, P., Page, C. E., Ali, D. A., Haller, H. C., & Duffy, K. A. (2023). Racial and ethnic disparities in women's mental health: a narrative synthesis of systematic reviews and meta-analyses of the US-based samples. Fertility and sterility, 119(3), 364–374. <https://doi.org/10.1016/j.fertnstert.2023.01.032>
32. Medina-Martínez, J., Saus-Ortega, C., Sánchez-Lorente, M. M., Sosa-Palanca, E. M., García-Martínez, P., & Mármol-López, M. I. (2021). Health Inequities in LGBT People and Nursing Interventions to Reduce Them: A Systematic Review. International journal of environmental research and public health, 18(22), 11801. <https://doi.org/10.3390/ijerph182211801>
33. Safer, J. D., Coleman, E., Feldman, J., Garofalo, R., Hembree, W., Radix, A., & Sevelius, J. (2016). Barriers to healthcare for transgender individuals. Current opinion in endocrinology, diabetes, and obesity, 23(2), 168–171. <https://doi.org/10.1097/MED.0000000000000227>
34. Gallo, L.C., de los Monteros, K.E., & Shivpuri, S. (2009). Socioeconomic Status and Health. *Current Directions in Psychological Science, 18*, 269 - 274.
35. Evans-Lacko, S., Aguilar-Gaxiola, S., Al-Hamzawi, A., Alonso, J., Benjet, C., Bruffaerts, R., Chiu, W. T., Florescu, S., de Girolamo, G., Gureje, O., Haro, J. M., He, Y., Hu, C., Karam, E. G., Kawakami, N., Lee, S., Lund, C., Kovess-Masfety, V., Levinson, D., Navarro-Mateu, F., Thornicroft, G. (2018). Socio-economic variations in the mental health treatment gap for people with anxiety, mood, and substance use disorders: Results from the WHO World mental health (WMH) surveys. Psychological Medicine, 48(9), 1560–1571. <https://doi.org/10.1017/S0033291717003336>
36. Centers for Medicare & Medicaid Services (CMS). (2024, January 18). *Innovation in Behavioral Health (IBH) Model.* Retrieved from <https://www.cms.gov/priorities/innovation/innovation-models/innovation-behavioral-health-ibh-model>
37. Slawek, D. E., Lu, T. Y., Hayes, B., & Fox, A. D. (2018). Caring for Patients With Opioid Use Disorder: What Clinicians Should Know About Comorbid Medical Conditions. Psychiatric Research and Clinical Practice, 1(1), 16–26. <https://doi.org/10.1176/appi.prcp.20180005>
38. Serota, D. P., Rosenbloom, L., Hervera, B., Seo, G., Feaster, D. J., Metsch, L. R., Suarez, E., Jr, Chueng, T. A., Hernandez, S., Rodriguez, A. E., Tookes, H. E., Doblecki-Lewis, S., & Bartholomew, T. S. (2022). Integrated Infectious Disease and Substance Use Disorder Care for the Treatment of Injection Drug Use-Associated Infections: A Prospective Cohort Study With Historical Control. Open forum infectious diseases, 10(1), ofac688. <https://doi.org/10.1093/ofid/ofac688>
39. Substance Abuse and Mental Health Services Administration. (2023, May). Evidence-based, Whole-Person Care for Pregnant People Who Have Opioid Use Disorder. Advisory. <https://store.samhsa.gov/sites/default/files/pep23-02-01-002.pdf>
40. van Draanen, J., Tsang, C., Mitra, S., Karamouzian, M., & Richardson, L. (2020). Socioeconomic marginalization and opioid-related overdose: A systematic review. Drug and alcohol dependence, 214, 108127. <https://doi.org/10.1016/j.drugalcdep.2020.108127>
41. Pear, V. A., Ponicki, W. R., Gaidus, A., Keyes, K. M., Martins, S. S., Fink, D. S., Rivera-Aguirre, A., Gruenewald, P. J., & Cerdá, M. (2019). Urban-rural variation in the socioeconomic determinants of opioid overdose. Drug and alcohol dependence, 195, 66–73. <https://doi.org/10.1016/j.drugalcdep.2018.11.024>
42. Office of Health Equity, Pennsylvania Department of Health. (2019, January). The State of Health Equity in PA Report. Retrieved from <https://www.health.pa.gov/topics/Documents/Health%20Equity/The%20State%20of%20Health%20Equity%20in%20PA%20Report%20FINAL.pdf>
43. U.S. Department of Health and Human Services. (2022). *Health Equity and Health Disparities Environmental Scan.* Department of Health and Human Services, Office of the Assistant Secretary for Health, Office of Disease Prevention and Health Promotion. Retrieved from <https://health.gov/sites/default/files/2022-04/HP2030-HealthEquityEnvironmentalScan.pdf>
44. Centers for Disease Control and Prevention. (2024, January 19). Health equity. Office of Health Equity. <https://www.cdc.gov/healthequity/whatis/index.html>
45. Henry, T. L., Britz, J. B., Louis, J. S., Bruno, R., Oronce, C. I. A., Georgeson, A., Ragunanthan, B., Green, M. M., Doshi, N., & Huffstetler, A. N. (2022). Health equity: The only path forward for primary care. *Annals of Family Medicine*, *20*(2), 175–178. <https://doi.org/10.1370/afm.2789>
46. Shahidullah, J. D., & Petts, R. A. (2023). Improving health equity through the integration of mental health services within primary care. *Wisconsin Medical Journal, 122*(3), 159-163. <https://pubmed.ncbi.nlm.nih.gov/37494642/>
47. Robinson, P., Von Korff, M., Bush, T., Lin, E. H. B., & Ludman, E. J. (2020). The impact of primary care behavioral health services on patient behaviors: A randomized controlled trial. Families, Systems, & Health, 38(1), 6–15. [https://doi.org/10.1037/fsh0000474](https://psycnet.apa.org/doi/10.1037/fsh0000474)
48. Berge, J. M., Trump, L., Trudeau, S., Utržan, D. S., Mandrich, M., Slattengren, A., Nissly, T., Miller, L., Baird, M., Coleman, E., & Wootten, M. (2017). Integrated care clinic: Creating enhanced clinical pathways for integrated behavioral health care in a family medicine residency clinic serving a low-income, minority population. Families, Systems, & Health, 35(3), 283–294. <https://doi.org/10.1037/fsh0000285>
49. Ogbeide, S. A., Landoll, R. R., Nielsen, M. K., & Kanzler, K. E. (2018). To go or not go: Patient preference in seeking specialty mental health versus behavioral consultation within the primary care behavioral health consultation model. Families, Systems & Health, 36(4), 513–517.
50. Primary Care Collaborative. (2022). Primary care: A key lever to advance health equity. <https://thepcc.org/sites/default/files/resources/pcc-evidence-report-2023.pdf?utm_source=bitly&utm_medium=link&utm_campaign=2023_evidence>
51. Bridges, A. J., Andrews,Arthur R., I.,II, Villalobos, B. T., Pastrana, F. A., Cavell, T. A., & Gomez, D. (2014). Does integrated behavioral health care reduce mental health disparities for Latinos? initial findings. *Journal of Latinx Psychology, 2*(1), 37-53. doi:https://doi-org.fgul.idm.oclc.org/10.1037/lat0000009
52. O'Loughlin, K., Donovan, E. K., Radcliff, Z., Ryan, M., & Rybarczyk, B. (2019). Using integrated behavioral healthcare to address behavioral health disparities in underserved populations. *Translational Issues in Psychological Science, 5*(4), 374–389. <https://doi.org/10.1037/tps0000213>
53. Zerden, L.D., Cooper, Z., & Sanii, H. (2021). The primary care behavioral health model (PCBH) and medication for opioid use disorder (MOUD): integrated models for primary care. *Social Work in Mental Health, 19*, 186 - 195. <https://www.tandfonline.com/doi/full/10.1080/15332985.2021.1896626>
54. Msw, L.R. (2012). Primary and Behavioral Healthcare Integration: Threat or Opportunity for Addiction Treatment Organizations? The Journal of Behavioral Health Services & Research, 39, 101-102. <https://link.springer.com/content/pdf/10.1007/s11414-012-9278-y.pdf>
55. Korthuis, P.T., McCarty, D., Weimer, M.B., Bougatsos, C., Blazina, I., Zakher, B., Grusing, S.E., Devine, B., & Chou, R. (2017). Primary Care Based Models for the Treatment of Opioid Use Disorder. *Annals of Internal Medicine, 166*, 268-278. <https://www.acpjournals.org/doi/full/10.7326/M16-2149?journalCode=aim>
56. Urada, D., Teruya, C., Gelberg, L., & Rawson, R.A. (2014). Integration of substance use disorder services with primary care: health center surveys and qualitative interviews. *Substance Abuse Treatment, Prevention, and Policy, 9*, 15 - 15. <https://substanceabusepolicy.biomedcentral.com/counter/pdf/10.1186/1747-597X-9-15.pdf>
57. Tsui, J.I., Barry, M.P., Austin, E.J. *et al.* ‘Treat my whole person, not just my condition’: qualitative explorations of hepatitis C care delivery preferences among people who inject drugs. *Addict Sci Clin Pract* **16**, 52 (2021). <https://doi.org/10.1186/s13722-021-00260-8>
58. Eaves, E. R., Williamson, H. J., Sanderson, K. C., Elwell, K., Trotter, R. T., & Baldwin, J. A. (2020). Integrating Behavioral and Primary Health Care in Rural Clinics: What Does Culture Have to Do with It?. *Journal of health care for the poor and underserved*, *31*(1), 201–217. <https://doi.org/10.1353/hpu.2020.0018>
59. Correll, J. A., Cantrell, P., & Dalton, W. T. (2011). Integration of behavioral health services in a primary care clinic serving rural Appalachia: reflections on a clinical experience. *Families, systems & health : the journal of collaborative family healthcare*, *29*(4), 291–302. <https://doi.org/10.1037/a0026303>