Organizational Network Analysis of SAMHSA's Technology Transfer Center (TTC) Network



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Abstract

Technology transfer centers (TTCs) facilitate the movement of evidence-based practices in behavioral healthcare from theory to practice. One of the largest such networks is the Substance Abuse and Mental Health Services Administration's (SAMHSA) TTC Network. This brief report shares findings from an organizational network analysis (ONA) of the network conducted as part of an external evaluation. For non-supervisory TTCs (n = 36) across three focus areas (addiction, prevention, and mental health), the authors computed network density, harmonic closeness, and non-null dyadic reciprocity for five types of interactions (e.g., "collaborated in workgroups"), then,

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for each interaction type, used Welch's T-test to compare mean harmonic closeness of standalone TTC grantees versus multiple-TTC grantees. ONA identified potentially isolated regional TTCs as well as mismatches between some centers' desired scope and their network centrality and enabled investigation of broader questions around behavioral health support systems. The approach appears useful for evaluating TTCs and similar support networks.

Keywords TTC · Technology transfer center · SAMHSA · Network analysis · Evaluation · Addiction · Prevention · Mental health

Introduction

In most areas of healthcare, novel findings, innovations, and evidence-based practices do not naturally or automatically transition from research to practice. Rather, they must be distilled and intentionally moved into practice systems where they can be implemented, and people must be taught to use them¹. Falling broadly under the umbrella of dissemination and implementation science², the support systems that facilitate this movement and training (e.g., capacity-building) are sometimes labeled technical assistance (TA) centers³ or technology transfer centers (TTCs)^{4,5}.

One of the largest such systems currently operating in the USA is the Substance Abuse and Mental Health Services Administration's (SAMHSA's) TTC Network, which is composed of 39 centers covering addiction treatment (ATTC), prevention (PTTC), and mental health (MHTTC), with a combined grant-cycle (5-year) budget of approximately US \$130 million. The ATTC Network was established in 1993, while the PTTC and MHTTC Networks were established in 2018. Domestically, each network is composed of 10 regional centers aligned with geographic regions of the USA, two national focus area centers (NFACs) focused on American Indian and Alaska Native health and Hispanic/Latino health, respectively, and one national coordinating office (NCO)⁶. Despite the network's relative newness, important research on SAMHSA's TTCs has been published 7-10 (and studies from the standalone ATTC Network were also published prior to 2018¹¹). However, this work has typically originated from inside the network and/or has been broader but focused on changes to TA resulting from COVID-19. Given the substantial national investment in, and scope of, the TTC Network, it is critical that it be rigorously evaluated 12 from a broader, external, and independent perspective.

In 2019, the authors initiated a large-scale, multi-part, 2-year formative evaluation of SAMHSA's TTC Network. Because the TTCs are not independent from each other, but rather work as parts of a formal network, one component of the evaluation was a sociocentric ("whole network") organizational network analysis (ONA)¹³ of the TTC Network to examine group dynamics and the overall group structure¹⁴. This ONA evaluation was distinct from individual-level evaluations because it focused on relationships of the TTCs within the network¹⁵. The authors examined three different evaluation questions separately for five different types of interactions, such as "collaborated in a workgroup."¹⁶ The evaluation also addressed a fourth question that was unrelated to interaction type by using egocentric networks in which TTCs identified their closest external "network neighbors."¹³ The evaluation questions were as follows:

- 1. How interconnected is the TTC Network for each interaction type?
- 2. Which TTCs are most interconnected in each interaction network?
- 3. Is awarding multiple TTC contracts to the same recipient (e.g., university) associated with TTC Network centrality for any interaction type?
- 4. Are any specific external entities independently collaborating with multiple TTCs?

Methods

Direct invitations to the organizational network survey were sent to the project director (or codirector) at each TTC, who was asked to complete a survey on QualtricsXM (a copy of the survey is available as Supplement 1). TTC representatives responded from March 12, 2020, through April 10, 2020. Individuals who served as project directors for multiple TTCs were asked to complete a survey for each TTC they directed. While data on NCOs were collected, they were excluded from the analysis because NCOs' unique supervisory roles within the overall TTC Network meant that their interactions would not appropriately be aggregated with those of the other sites. These study procedures were not considered human subjects research because the focus was on organizations (IRB #1910589313). To preserve the confidentiality of TTCs, designations (Regions 1 through 10 and NFACs) have been randomized to letters A through L in the manuscript as well as in the analytic code and data.

Procedures

Each respondent was asked, "Thinking only about the past three (3) months, with which other TTCs have you directly interacted (e.g., collaboration, providing or receiving support)?" The question also noted, "If the only interaction with another TTC was shared attendance (e.g., both entities were on the same Zoom call) then you should not include that TTC." TTCs were then presented with a list of all other TTCs across types and networks (including NFACs). After TTCs selected all the other TTCs with which they had interacted using checkboxes, that list was drawn forward to a new question, which asked: "For each TTC you selected, please indicate the types of interactions you have had (select all that apply)." The available interaction types were collaborated on product development, collaborated on training delivery, collaborated in a workgroup, provided in-kind support, received in-kind support, and other.

For Aim 4, each TTC was asked, "With what organizations and individuals outside the TTC network has your TTC had significant interactions in the past three (3) months? We know TTCs interact with many organizations—but we are only interested in up to 10 relationships that your TTC considers to be most important to its work as a TTC. This can include organizations to which the TTC provides services, as well as organizations from which the TTC receives services or support, as well as any other partners you believe to be meaningful to your TTC's work."

Analysis parameters

All analyses were conducted using RStudio 1.3.1093 (R 4.0.2) with the "sna" package. Analytic code and associated datasets are provided in Supplement 2. The authors generated one visual map for each interaction type (see Supplement 3). Since the analyses examined relationships among TTCs (the elements of interest), each TTC was represented by a "vertex." For collaboration variables, analysts treated assertion by *either* of a pair of TTCs that collaboration existed as a relationship, but still measured whether such assertions were reciprocal.

Our primary metrics of interest for each interaction type were as follows:

- Density, which is the number of direct connections ("edges") that exist in a network relative to the number of edges that would exist if every vertex were connected to every other vertex.
- Closeness, which describes the average path length to all other vertices. For this study, we used "harmonic closeness," which is the ratio of how centralized a vertex is relative to how centralized it could possibly be, represented as a percentile from 0 to 100%. The higher the percentile, the more interconnected the vertex is within that map.

Reciprocity (collaborations only), in this case, "non-null, dyadic reciprocity," which is the proportion of pairs of vertices that *mutually* indicate that they share an edge divided by the proportion of pairs for which at least one vertex indicates it shares an edge.

The evaluators also examined whether closeness of a TTC within the network was associated with whether it was a standalone grantee or a grantee with multiple (two or three) separate TTC awards. Information about TTC center funding was derived from documentation provided by SAMHSA. Those comparisons used Welch's two-sample *T*-test, ¹⁷ which does not carry the assumption of equality of variances and adjusts degrees of freedom at the analytic stage.

Results

All 36 TTCs participated in the study. No data were missing, but one TTC (MHTTC I) selected all other TTCs (e.g., 35) for "collaboration in workgroups," which was a substantial outlier (the next three highest values were 13, 10, and 10), so MHTTC I was excluded from that analysis. Visually (see Supplement 3), the authors observed that the network clustering for the interaction types with non-directional ties supported the validity of the analytic approach because the TTC types (ATTC, PTTC, MHTTC) tended to cluster together even though no information about TTC type was included in the modeling. Composite measures and statistical tests are shown in Table 1.

Aim 1

Density values indicated just under 1/5 of collaborations existed in the network out of all theoretically possible collaborations (e.g., if each TTC collaborated with all 35 others). For providing or receiving in-kind support, which are directional links, TTCs were far less connected (density under 4% for both).

Aim 2

The TTCs with the highest harmonic closeness varied by interaction type, with some TTCs being highly centralized for more than one type of interaction. The four most centralized TTCs for each interaction type are noted in Table 1. Region G TTCs were particularly central, with at least one TTC among the most centralized for each interaction type. In contrast, Region F TTCs tended to be more isolated than other TTCs for each interaction type (not shown in Table 1, see Supplement 3).

Aim 3

The analyses provide some evidence to suggest that awarding multiple TTC contracts to the same recipient may be associated with increased network centralization for collaboration on product development (t = -2.933, df = 24.19, p = 0.007), but may not be associated with other interaction types.

Aim 4

The evaluators expected to be able to generate "egocentric" network maps showing how entities outside of the TTC Network collaborated with multiple TTCs. However, 319 different entities were listed as collaborators (out of a theoretically possible 360, but not all TTCs listed 10 entities), with almost no overlap (<1%). Such data do not support the inference that any external entity was interlinked with many different TTCs to do important or substantive work.

Table 1

		Network analysis and T-test results			
INTERACTION TYPE	MEAN HARMONIC CLOSENESS (STAN- DALONE)	MEAN HARMONIC CLOSE- NESS (MULTIPLE GRANT- EEs)	DENSITY (%) RECI- PROC. ITY (%)	RECI- PROC- ITY (%)	T-TEST OF CLOSENESS
COLLABORATION ON PROD- UCT DEVELOPMENT	48.3%	54.6%	17.5%	21.8%	t = -2.933, df = 24.19, p = 0.007
COLLABORATION ON TRAIN- ING	51.3%	55.4%	18.1%	28.1%	$t = -1.550 \ df = 29.02 \ p = 0.132$
COLLABORATION IN WORK- GROUPS	52.9%	56.3%	19.8% 3	32.2%	$t = -1.551 \ df = 27.34 \ p = 0.132$
PROVIDED IN-KIND SUPPORT	23.6%	20.9%	3.8%	1	t = 0.553 df = 32.50 p = 0.584
RECEIVED IN-KIND SUPPORT	14.1%	15.4%	3.1%	ı	t = -0.345 df = 33.61 p = 0.732
INTERACTION TYPE	Highest harmonic closeness	seness			
COLLABORATION ON PROD- UCT DEVELOPMENT	MHTTC I, ATTC J, PTTC G, and ATTC K	TTC G, and ATTC K			
COLLABORATION ON TRAIN-ING	ATTC C, MHTTC L,	ATTC C, MHTTC L, ATTC G, and PTTC G			
COLLABORATION IN WORK- GROUPS	MHTTC L, PTTC L, ATTC J, and PTTC G	ATTC J, and PTTC G			
PROVIDED IN-KIND SUPPORT RECEIVED IN-KIND SUPPORT	MHTTC B, MHTTC MHTTC	MHTTC B, MHTTC G, PTTC G, and MHTTC D MHTTC G, MHTTC B, ATTC G, and ATTC D			

Discussion

Researchers within the TTC Network have published multiple studies around TTC processes and outcomes, including the works previously cited^{7–10} as well as recent multi-year evaluations¹⁸, case study series¹⁹, and other analyses²⁰. This work has generally been conducted *within* one of the three TTC Networks. However, possibly because funding for evaluation by any given TTC is contractually restricted, cross-network evaluation studies, including sociocentric network analyses of the type conducted in this study, have not previously been conducted.

The ONA component of our team's evaluation affirmed that this approach to evaluating agency interactions and collaboration could be used to assess TA/TTC Network structures. ONA studies in public health are not especially rare^{21–23}. However, findings from sociocentric analyses can sometimes be limited by the degree to which organizations choose to participate in data collection²¹. In contrast, SAMHSA's TTC Network seemed particularly well-suited for sociocentric ONA, as the closed nature of the network (e.g., a specific, funded set of TTCs) and formal nature of the evaluation (e.g., responses from directors were expected by SAMHSA) further ensured the authors' ability to collect a complete dataset. Similar analyses could likely be repeated in future evaluations and/or with subsequent TTC cohorts.

The ONA analyses also produced actionable information for SAMHSA to use in supporting its TTCs. First, the analyses showed fairly high levels of collaboration between TTCs within and across networks and regions. Importantly, the ONA allowed the evaluators to identify a particular region (Region F) where all three TTCs were relatively isolated for more than one interaction type, with ATTC F being isolated for three interaction types, and to recommend support and outreach to that region. Second, the premise of the NFACs is that they conduct cross-cutting work that is not limited to certain regions⁶, yet harmonic closeness data did not suggest that NFACs were consistently among the most centralized, although selected NFACs were among the more central TTCs for some interaction types. Those findings allowed the authors to suggest reexamination of the NFAC structure to learn why they were not more central to the collaboration and support networks and to build in additional qualitative evaluation components related to NFACs later in the overall evaluation. In both cases, ONA enabled potentially useful feedback to be delivered to SAMHSA that may not have been readily identifiable using other types of formative evaluation.

Limitations

The most substantive limitation in interpreting these data is the low level of reciprocity in the collaboration networks. Reciprocity does not measure the actual collaborations between the TTCs, but rather the degree to which TTCs mutually asserted the same collaborations. If this discrepancy resulted from problems with memory or recall, then it may simply demonstrate data triangulation (e.g., multiple sources to identify single collaborations). On the other hand, if these differences resulted from different "thresholds" of what constitutes collaboration, then the analyses are more likely to reflect a "lowest threshold standard" (e.g., even "weak" collaborations are being documented). Furthermore, in the latter case, TTCs operating at the same recipient site might be more likely to indicate collaborations with each other. It is also theoretically possible that the reciprocity value for some dyads was suppressed in the specific case where a dyad of TTCs took the survey several weeks apart from one another, and their only interaction was in a period not covered by the overlapping retrospective timeframe provided in the question. While we cannot know whether that occurred, since all TTCs took the survey within the same 30-day period (and most within the same 21-day period), we view it as somewhat unlikely. Finally, it is also possible that the data were subject to social desirability bias. ²⁴ TTCs were aware that they were being evaluated and may have responded in a way that they thought SAMHSA or the evaluators would

want to see. As with all studies, these outcomes and conclusions should be interpreted cautiously and not used to make broad inferences or decisions without consideration of the totality of available evidence.

Implications for Behavioral Health

As previously noted, this work is a component of the first independent evaluation of SAMHSA's new national TTC Network. In that context, these findings may help support the design and content of subsequent TTC funding opportunity announcements and evaluations of the network, in addition to the direct utility for SAMHSA described in the "Discussion." More generally, the findings facilitate discussion of two specific nuances of behavioral health networks in the USA that extend beyond the TTC Network.

First, though not formally published or documented, academic "water cooler" discussion around the funding of behavioral health centers sometimes suggests that having multiple co-located centers can reduce external collaboration. The evaluators investigated this possibility but did not observe significant differences between mean harmonic closeness and whether TTCs were single-grant or multi-grant sites. The exception was "collaboration on product development," where multi-grant sites were somewhat *more* central to the network than single-grant sites (6.3% higher mean harmonic closeness). This finding might tentatively suggest that agency network interactivity may not be hampered by issuing multiple TA/TTC contracts to the same recipients.

Second, because there are many different types of networks related to behavioral health work in the USA, the authors also expected to find an interlinked egocentric network among TTCs where specific external entities were working independently with multiple TTC sites across regions and focus areas. However, responses to this survey item were so dispersed that it was not even possible to construct a visual network map. In particular, TTCs tended to interact with localized subcontractors and local- and state-level organizations representing their core audiences, including those that might be involved with helping to identify needed types of TA (separately, stakeholder involvement with TTC decision-making was identified through components of the evaluation that have not yet been published). This is not to claim that larger partnerships potentially involving TTCs are not potentially forthcoming. For example, in 2020, a framework was published that, in part, describes possible behavioral health-based collaborations between land-grant university cooperative extensions and the SAMHSA TTC Network.²⁵

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Data, Code, and Materials Availability De-identified data from this study, the analytic code used to conduct the analyses, and the materials (i.e., survey) used to conduct this study are available as supplemental files (Supplements 1 through 3) on the open science platform (https://osf. io/ sjak4/? view_only= 7d067 f744d ab47ff936f 83892 42157 3f).

Declarations

Conflict of Interest JA, RG, KR, and SH have, at various times, received funding from the Substance Abuse and Mental Health Services Administration (SAMHSA) through their workplaces to conduct public health projects. Though the overall evaluation was participatory in nature, SAMHSA did not review or exert any control over the content of this brief report. Portions of this report were submitted to SAMHSA's leadership team in 2022 in unredacted form as the final grant deliverable for TI082543, though that report will not be published or made public, nor did any of the authors receive feedback on that report from SAMHSA that would influence this publication.

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References

- Wandersman A, Duffy J, Flaspohler P, et al. Bridging the gap between prevention research and practice: The Interactive Systems
 Framework for Dissemination and Implementation. American Journal of Community Psychology 2008; 41:171–181. https://doi.org/ 10.1007/s10464-008-9174-z
- Glasgow RE, Vinson C, Chambers D, et al. National Institutes of Health approaches to dissemination and implementation science: Current and future directions. American Journal of Public Health 2012; 102(7):1274

 –81. Available at https://doi.org/10.2105/AJPH. 2012.300755. Accessed 29 September, 2023.
- 3. Katz J, Wandersman A. Technical assistance to enhance prevention capacity: A research synthesis of the evidence base. *Prevention Science* 2016; 17:417–28. Available at https://doi.org/10.1007/s11121-016-0636-5. Accessed 29 September, 2023.
- ATTC Network Technology Transfer Model. Addiction Technology Transfer Center Network, 2023. Available at: https://attcnetwork. org/centers/global-attc/attc-network-technology-transfer-model. Accessed 4 April, 2023.
- Gotham H, Hagle H, Hulsey E, et al. Research to practice in addiction treatment: Key terms and a field-driven model of technology transfer. *Journal of Substance Abuse Treatment* 2011; 41(2):169–78. Available at https://doi.org/10.1016/j.jsat.2011.02.006. Accessed 29 September. 2023.
- Technology Transfer Centers (TTC) Program. Substance Abuse and Mental Health Services Administration, 2023. Available at: https://www.samhsa.gov/technology-transfer-centers-ttc-program. Accessed 7 April, 2023.
- Heitkamp T, Schroeder S, Shogren M, et al. Use of evidence-based technology to assist the behavioral health workforce: A case study
 on technology transfer systems. *Journal of Addictions Nursing* 2021;32(3):197–204. Available at https://doi.org/10.1097/JAN.00000
 00000000418. Accessed 29 September, 2023.
- Powell KG, Chaple MJ, Henry M, et al. Virtual training and technical assistance: a shift in behavioral health workforce access and perceptions of services during emergency restrictions. *BMC Medical Education* 2022; 22:575. Available at https://doi.org/10.1186/ s12909-022-03598-y. Accessed 29 September, 2023.
- Hagle H, Wolfson M, Slobada Z, et al. Accelerating the translation of prevention research into practice through collaborations between prevention researchers & SAMHSA's Prevention Technology Transfer Centers. Roundtable discussion at SPR Virtual 29th Annual Meeting: Society for Prevention Research, June 2021.
- Cross-Technology Transfer Center (TTC) Workgroup on Virtual Learning. Providing behavioral workforce development technical assistance during COVID-19: Adjustments and needs. Translational Behavioral Medicine 2022; 12(1):ibab097. Available at https:// doi.org/10.1093/tbm/ibab097. Accessed on September 29, 2023.
- Squires DD, Gumbley SJ, Storti SA. Training substance abuse treatment organizations to adopt evidence-based practices: the Addiction Technology Transfer Center of New England Science to Service Laboratory. *Journal of Substance Abuse Treatment* 2008; 34(3):293–301.
 Available at https://doi.org/10.1016/j.jsat.2007.04.010. Accessed on September 29, 2023.
- 12. Scott VC, Jillani Z, Malpert A, et al. A scoping review of the evaluation and effectiveness of technical assistance. *Implementation Science Communications* 2022; 3:70. Available at https://doi.org/10.1186/s43058-022-00314-1. Accessed on September 29, 2023.

- Perry BL, Pescosolido BA, Borgatti SP. Egocentric Network Analysis: Foundations, Methods, and Models. Cambridge University Press, 2018
- Eisenberg M, Swanson N. Organizational network analysis as a tool for program evaluation. Evaluation & the Health Professions 1996;
 19(4):488–507. Available at https://doi.org/10.1177/016327879601900407. Accessed on September 29, 2023.
- Brass DJ, Galaskiewicz J, Greve HR, et al. Taking stock of networks and organizations: A multilevel perspective. Academy of Management Journal 2004; 47(6):795–817. Available at https://doi.org/10.5465/20159624. Accessed on 29 September, 2023.
- Durland MM, Fredericks KA. An introduction to social network analysis. New Directions for Evaluation 2006; Fall 2005(107):5–13.
 Available at https://doi.org/10.1002/ev.157. Accessed on 29 September, 2023.
- Delacre M, Lakens D, Leys C. Why psychologists should by default use Welch's t-test instead of Student's t-test. *International Review of Social Psychology* 2017; 30(1):92–101. Available at https://doi.org/10.5334/irsp.82. Accessed on 29 September, 2023.
- Shafer MS, Oh H, Sturtevant H, et al. Patterns and predictors of sustained training and technical assistance engagement among addiction treatment and affiliated providers. *Journal of Behavioral Health Services & Research* 2023. Available at https://doi.org/10.1007/s11414-023-09854-3. Accessed on 29 September, 2023.
- Gotham HJ, Cummings JR, Dolce JN, et al. Applying implementation science in mental health services: Technical assistance cases from the Mental Health Technology Transfer Center (MHTTC) network. General Hospital Psychiatry 2022; 75:1–9. Available at https://doi. org/10.1016/j.genhosppsych.2022.01.004. Accessed on 29 September, 2023.
- Gonzalez J, Gotham H, Carvalho H. Preventing violence by engaging states, districts, and schools to implement school mental health services: The MHTTC network (SAMHSA Track). Paper presented at the APHA's 2020 Virtual Annual Meeting and Expo, October, 2020
- Madondo K, Weiss L, Realmuto L, et al. Building and sustaining community partnerships: An organizational network analysis in a low-resource neighborhood. *Progress in Community Health Partnerships: Research, Education, and Action* 2022; 16(4):517–26. Available at https://doi.org/10.1353/cpr.2022.0073. Accessed 29 September, 2023.
- Cross JE, Dickmann E, Newman-Gonchar R, et al. Using mixed-methods design and network analysis to measure development of interagency collaboration. *American Journal of Evaluation* 2009; 30(3):310–29. Available at https://doi.org/10.1177/1098214009340044. Accessed 29 September, 2023.
- Thomas JC, Agala B, Xiong K, et al. Improving referrals for HIV care through organizational network analysis. *Journal of Public Health Management and Practice* 2019; 25(3):E36–44. Available at https://doi.org/10.1097/PHH.0000000000000839. Accessed 29 September, 2023
- Krumpal I. Determinants of social desirability bias in sensitive surveys: A literature review. Quality & Quantity 2013; 47:2025–47.
 Available at https://doi.org/10.1007/s11135-011-9640-9. Accessed 29 September, 2023.
- Spoth R, Franz N, Brennan A. Strengthening the power of evidence-based prevention in cooperative Extension: A capacity-building framework for translation science-driven behavioral health. *Child & Youth Care Forum* 2020; 50(1):121–45. Available at https://doi. org/10.1007/s10566-020-09559-0. Accessed 29 September, 2023.

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