



CTSA Program Common Metric Operational Guideline: *Careers in Clinical and Translational Research*

Template Element	Description
1. Operationalized Metric Title	Careers in clinical and translational research
2. Purpose	The purpose of this metric is to measure and develop strategic management plans to enhance the extent to which CTSA Program hubs and the Consortium as a whole are training and supporting scientists to remain engaged in clinical and translational research into the future.
3. Operational Specification	The number and percent of institutional scholars and trainees who completed the KL2 and TL1 programs, respectively, who are currently engaged in clinical and translational research. Of those who are currently engaged in clinical and translational research, the number and percent of underrepresented persons and women.*
4. Technical Description	<p><u>Key Definitions</u></p> <p>In order to launch scholars and trainees into clinical and translational research careers following completion of their training programs, they must be engaged in clinical and translational research.</p> <p>“Engaged in research” includes any of the following activities:</p> <ul style="list-style-type: none"> • Enrolling participants into clinical trials, being an active member of a multidisciplinary research team, participating in large-scale genotype/phenotype studies, etc. • If primary role is as a clinician: some effort (e.g., 20%) in research or as a site PI for industry-sponsored clinical trials • If primary role is in academia: PI, Co-PI or Co-I on a funded grant involving clinical and translational research • If primary role is in academia and not actively funded, then actively involved in grant writing/re-submitting/reviewing (study section) in clinical and translational research

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	<ul style="list-style-type: none"> • If primary role is in industry: involved in directing clinical and translational research projects • If primary role is in government: involved in conducting or managing clinical and translational research <p><u>Timeframe</u> This metric will be collected annually (calendar year) and is cumulative for all KL2 and TL1 scholars and trainees who graduated since January 1, 2012. If your hub was funded later than this date, the beginning date is as of the funding date.</p> <p><u>Data Scope</u> All graduates of the TL1 and KL2 programs after January 1, 2012, respectively. TL1 is reported separately from KL2. Graduates for whom data cannot be obtained are not included in the numerator (# graduates engaged in research) or in the denominator (total # graduates).</p>
<p>5. Score(s), Metric Type, Numerator and Denominator Statements or Continuous Variable Statement, Inclusion/Exclusion Criteria</p>	<p>This metric results in the following scores (A-D) for each program (KL2 or TL1):</p> <ul style="list-style-type: none"> A. Number of (KL2 or TL1) graduates who are currently engaged in clinical and translational research. B. Percent of (KL2 or TL1) graduates who are currently engaged in clinical and translational research. C. Of the (KL2 or TL1) graduates who are currently engaged in clinical and translational research, the number and percent of underrepresented persons.* D. Of the (KL2 or TL1) graduates who are currently engaged in clinical and translational research, the number and percent of women.* <p>A. Number of graduates who are currently engaged in clinical and translational research.</p> <p><u>Metric Type:</u> Count</p> <ul style="list-style-type: none"> • Inclusion Criteria: The total (cumulative) number of (KL2 or TL1) program graduates since January 1, 2012 that are currently engaged in clinical and translational research.

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	<ul style="list-style-type: none"> • Exclusion Criteria: Trainees and scholars who are still in training or who have left the program without completing the full training program requirements should not be included in this metric. Trainees and scholars who participate in other career development programs, including other K and T programs are also excluded. <p>B. Percent of graduates who are currently engaged in clinical and translational research. <u>Metric Type:</u> Rate</p> <p><u>Denominator Statement:</u> <i>The total (cumulative) number of (KL2 or TL1) program graduates since January 1, 2012.</i></p> <ul style="list-style-type: none"> • Inclusion Criteria for Denominator: A student is included once they complete the full training program requirements. • Exclusion Criteria for Denominator: Trainees and scholars from other career development programs, including other K and T programs. <p><u>Numerator Statement:</u> <i>The numerator for this score is the result for score A.</i></p> <p>C. Of the graduates who are currently engaged in clinical and translational research, the number and percent of underrepresented persons.* <u>Metric Type:</u> Rate</p> <p><u>Denominator Statement:</u> <i>The denominator for this score is the result for score A.</i></p> <p><u>Numerator Statement:</u> <i>The number of (KL2 or TL1) program graduates that are currently engaged in clinical and translational that qualify as an underrepresented person per the NIH definition.</i></p> <p>D. Of the graduates who are currently engaged in clinical and translational research, the number and percent of women.* <u>Metric Type:</u> Rate</p>

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	<p><u>Denominator Statement</u>: <i>The denominator for this score is the result for score A.</i></p> <p><u>Numerator Statement</u>: <i>The number of (KL2 or TL1) program graduates that are currently engaged in clinical and translational that are women.</i></p>
6. Data Sources & Methods of Data Collection	<p><u>Data sources and Method of Data Collection</u></p> <p>Possible data sources:</p> <ol style="list-style-type: none"> 1. Current year CVs of scholars/ trainees (requested annually by program administrator). Manual effort reading CVs. May require back-up data collection via internet searches and/or contacting former trainees. 2. Survey (e.g. Graduate Tracking Survey System - GTSS - developed by Rockefeller Univ.; WebCAMP PROMPTR) or survey developed in-house at a CTSA Program Hub. Time consuming to set up, but less onerous after initiation. Rarely/never get 100% participation in a survey, thus making data a sample only. 3. Note: NIH Reporter only reports PIs and not Co-Is, so it cannot be the sole source of information for NIH grants, particularly for team science, where involvement may be as team member but not as PI.
7. Frequency of data collection and Reporting	Annually
8. Unit of Analysis	Scholar, Trainee
9. Notes/Comments	<ul style="list-style-type: none"> • The TL1 program is also known as the National Research Service Award (NRSA) Training Core. • The KL2 program is also known as the Institutional Career Development Core. <p><i>*NIH encourages institutions to diversify their student and faculty populations to enhance the participation of individuals from groups identified as nationally underrepresented in the biomedical, clinical, behavioral and social sciences. These groups include: individuals from underrepresented racial and ethnic groups, individuals with disabilities, individuals from</i></p>

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	<i>disadvantaged backgrounds and women at senior faculty levels in biomedical-relevant disciplines.</i> http://grants.nih.gov/grants/guide/notice-files/NOT-OD-15-053.html