CPI _ Improving Program Learning Outcomes Report

CPI Improving PLO Report (AY23-24)
Name of the Program__Physical Therapy_____

Dean's signature_____*Gordon Schmidt*_____
Expected Date of Submission <u>6/30/2024</u>
Department Chair or Director: _Cheryl A. Hall, PT, DHSc, MBA_____

NYIT's CPI process is implemented to meet *MSCHE Standard V: Educational Effectiveness Assessment: Assessment of student learning and achievement demonstrates that the institution's students have accomplished educational goals consistent with their program of study, degree level, the institution's mission, and appropriate expectations for institutions of higher education.*
All degree program's PLO assessment plans (2022-2025) are posted through the link:

http://www.nyit.edu/planning/academic_assessment_plans_reports.

This is a report of its implementation for year 2023-2024. The report should address the following points:

I. The Annual Program Learning Outcomes (PLOs) Assessment should include the followings:

1. PLO (PROGRAM LEARNING OUTCOMES) ASSESSED. LIST THE PLOS THAT HAVE BEEN ASSESSED IN AY 23-24 BASED ON YOUR THREE-YEAR PLAN (AY22_25)

   DPT Program-Level Learning Outcomes:

   1. Determine the physical therapy needs of a patient or client through examination and evaluation
   2. Develop and implement a plan of care to meet the individual's physical therapy needs
   3. Demonstrate understanding of the foundational sciences as they relate to physical therapy practice

For the period, AY22-25, PLOs 1, 2, and 3 are being assessed. The program learning outcomes and course objectives matrix has been updated to reflect alignment with CAPTE Curriculum Evaluative Criteria (Columns C & D), which can be found here:
https://docs.google.com/spreadsheets/d/10sBLlDAdU0-x8Y6Ufvkmx92waxzgqwNqRQ0kKZ2Sx2Y/edit?usp=sharing

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Program faculty have updated the matrix. CAPTE Curriculum Evaluative Data criteria have been added to the matrix and were reflected in all course syllabi as of Fall 2023. However, CAPTE has modifications to 2016 Standards and Required Elements and renamed the SREs to 2024 Standards and Required Elements (SREs), which will be the criteria for the next DPT Self-Study due in Spring 2026 in preparation for Fall 2026 on-site visit. The DPT Curriculum Committee is working this summer to update SREs on the Program Outcome Matrix for inclusion on all Fall 2024 course syllabi.

2. METHOD: DESCRIBE THE METHOD OF ASSESSMENT AND ATTACH MEASUREMENT INSTRUMENTS (E.G., RUBRIC, EXAM ITEMS, SCORING GUIDE FOR A PARTICULAR TASK, SUPERVISOR EVALUATION FORM, SURVEY INSTRUMENT, AND OTHER ASSESSMENT TOOLS).

One of the ways to assess PLOs are via student performance on the National Physical Therapy Examination (NPTE) and based on clinical instructor assessment during and following completion of the student's clinical affiliations, particularly in their final experience. Since summer 2023, our clinical education team has moved clinical education student performance assessment from the APTA's Clinical Performance Instrument (CPI) to the use of the Clinical Internship Evaluation Tool (CIET).[1] This assessment provides a time-efficient assessment for measuring students' clinical performance and is integrated into the clinical education management platform (EXXAT) currently in use by the program. Benchmarks have been developed by the clinical education team that reflect the clinical expectations for students at midterm and at the final point of each clinical experience.

National Physical Therapy Examination (NPTE) Report from the Federation of State Boards of Physical Therapy (FSBPT)
The NPTE or national licensing exam is the baseline for determining students' success in the academic program, based on didactic studies and clinical work. As per the FSBPT, the NPTE is developed, maintained, and administered "To help ensure that only those individuals who have the requisite knowledge of physical therapy are licensed in the physical therapy field and to help regulatory authorities evaluate candidates and provide standards that are comparable from jurisdiction to jurisdiction" (https://www.fsbpt.org/Secondary-Pages/Exam-Candidates/National-Exam-NPTE).

The graduating cohort of the Class of 2022 achieved a 100% first-time pass rate, meaning all students from the cohort passed the licensing examination the first time they sat for the exam. The national average for the first-time pass rate for 2022 graduates was 85%. In addition, the passing score for the 2022 cohort was 699.9, which exceeded the national average (660.3) by over 30 points. As of the most updated version of the Federation of State Boards of Physical Therapy report (June 17, 2024), the DPT 2023 cohort has improved its ultimate pass rate from 79.4%

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to 88.2%. All students in the 2023 cohort have taken the exam at least once, but four have not passed (see official report below). It should be noted that the 2023 cohort began the program in spring/summer 2020 and all coursework (Gross Anatomy and Kinesiology) were taught online with no on-site instruction until Fall 2020. In fall 2020, all didactic coursework was taught online (synchronously/asynchronously) and lab content was taught in person, with students alternating virtual and in-person weeks until Spring 2021.

fsbpt

The Federation of State Boards of Physical Therapy
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New York Institute of Technology (PT)

Free Basic Pass Rate Report

School Code: 0136
Graduation Years: 2021 - 2023
Exam Level: PT
State: NY
Date of Report: 6/17/2024

Graduation Year	Group	Number of Candidates	Number of Passing Candidates	Summary Performance for the School by Graduation Year			Summary Performance for All U.S.-Accredited Candidates by Graduation Year		
				Pass Rate	Mean Scale Score	Confidence Interval of the Mean	Pass Rate	Mean Scale Score	Standard Deviation Scale Score
2023	First Time	34	27	79.4%	652.7	12.2	85.0%	658.4	59.6
	Ultimate	34	30	88.2%	663.9	10.8	96.3%	666.5	50.9
2022	First Time	37	37	100.0%	699.9	9.7	84.8%	660.0	60.0
	Ultimate	37	37	100.0%	699.9	9.7	98.6%	669.5	48.7
2021	First Time	38	31	81.6%	642.2	9.4	87.9%	666.1	58.3
	Ultimate	38	37	97.4%	651.5	7.6	98.9%	673.5	49.1

Scale Scores of 600 and above are passing.

3. ANALYSIS OF THE ASSESSMENT RESULTS: PROVIDE CRITERIA-BASED DISAGGREGATE AND AGGREGATE DATA ANALYSIS.
   a. **Academic Practice Exam and Assessment Tool (PEAT)**
   Using all the tools at our disposal, the Academic Practice Exam and Assessment Tool (PEAT) is an additional means. The PEAT is a practice exam required for students to take as a baseline method of self-assessment prior to taking the NPTE. Anecdotally, students who receive a passing (600) or near-passing score on the PEAT, pass the NPTE the first time or pass on their second

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attempt. Below are the average scores in the content areas by cohort on the PEAT for the last three years:

	2022 (n=37/37)	2023 (n=32/34)	2024* (n=29/32)
Physical Therapy Examination	565.3	575.2	547.2
Foundations for Evaluation, Differential Diagnosis, & Prognosis	567	597.5	544.4
Interventions	562.4	599.6	524.9
Nonsystem Domains	556.4	615.7**	587.8

passing score

The range of scores in the 2022 cohort was 466-666, for 2023 the range was from 480-717, and the 2024 cohort (which as of this time has not taken the NPTE) range was from 441-629. Of those in the 2023 cohort who have not yet passed the NPTE:

- one graduate received the lowest score in the cohort and did not receive a 600 in any test area on the practice or retired forms
- one took both the retired and practice form and received higher scores on the practice form in May 2023 (516-618), but did poorer on the retired exam taken four months later (516-569)
- one did not take the *retired* academic PEAT, but rather took the practice form only, and
- one graduate took neither the retired nor the practice test.

The results by the 2023 cohort are difficult to explain, as the mean scores on the PEAT were higher than the 2022 cohort; however, this group still struggles to achieve a pass rate of over 90% one year later. CAPTE requires 85% ultimate pass rate averaged over two years; however, as of August 2023, the American Council of Academic Physical Therapy (ACAPT) reported NPTE pass rates are down to a mean of 89% nationally, causing FSBPT to look at a variety of factors that may be affecting student performance.[2]

    b. **Clinical Rating Scores on the web-based version of the CIET**
       Student performance in the clinical setting are assessed at the end of the final clinical rotation. The Clinical Performance Outcomes Sections are as follows:

- *Professional Behaviors (Safety, Professional Ethics, Initiative, Communication Skills)*
  - *For this section, students completing their final clinical experience are expected to demonstrate professional behaviors "always" or quantified by >95% of the time.*

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- *Patient Management (Examination, Evaluation, Diagnosis/Prognosis, Intervention)*
  - *For this section, student meets criteria "At that level for all patients" defined as "Student is <u>independently</u> managing familiar and complex patients. Students can carry an appropriate caseload at the clinical site." This outcome is aligned with our program PLOs, so the data collected will be based on this section of the assessment tool on the grid below.*
- *Global Rating of Student Clinical Competency*
  - *Score of a minimum of 7/10, quantified by "Meeting expectations and managing 100% of an entry-level caseload."*

Patient Management areas aligned with PLOs based on clinical skill outcome scores *(Examination, Evaluation, Diagnosis/Prognosis, Intervention)*	PLOs	Class of 2023 (scores on CPI out of 21)	Class of 2024 (CIET Patient Management Criteria, includes "at that level" and "above" ratings)
Examination	1, 2, 3	18.27 (87%)	98%
Evaluation	1, 2, 3	18.3 (87%)	96%
Diagnosis & Prognosis	1, 2, 3	18.21 (87%)	97%
Interventions	1, 2, 3	18.45 (88%)	96%

4. INTERPRETATION: TO WHAT DEGREE DID STUDENTS ACHIEVE THE PROGRAM LEARNING OUTCOMES BASED ON YOUR DATA ANALYSIS AND EXPECTED LEARNING OUTCOMES?

As a result of changing the clinical performance outcome measures (CPI to CIET), we will be "comparing apples to oranges" for another year until we have used the CIET for at least two consecutive years; however, based on the data for the 2023 and 2024 cohort, and comparing scores to prior years, students are meeting the PLOs that closely align with the content areas of the NPTE.

5. CLOSE THE LOOP – IF THE EXPECTED PROGRAM LEARNING OUTCOMES WERE SUCCESSFULLY MET, DESCRIBE HOW THE PROGRAM WILL KEEP OR EXPAND THE GOOD PRACTICES, IF NOT, REFINE OR CREATE THE NEXT CYCLE OF PDSA

Although the original plan of action was to assess PLOs 4, 5, 6, & 7 this year, it is important to re-evaluate the stated PLOs (1, 2, and 3) based on the new student clinical performance outcomes and to use data from the Academic PEAT in this assessment as a reasonable predictor of an improved first-time NPTE pass rate through 2025. This is critical information as we prepare for our CAPTE Self-Study Report (SSR) and On-Site

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Visit (OSV) in May and fall 2026, respectively.

Objectively, however, based on the data compiled from the CIET, outcomes for these PLOs are as follows:

Professional Behaviors (Safety, Professional Ethics, Initiative, Communication Skills)	PLOs	Class of 2024 (CIET Patient Management Criteria, includes "at that level" and "above" ratings, "always"** and "most of the time" **).
Communicate appropriately and effectively with patients, families, colleagues, and the public.**	4, 5, 6, 7	99% (1% reported not observed)
Adhere to safe, ethical, and legal practice.**	4, 5, 6, 7	100%
Apply sound administrative principles to the management of physical therapy practice.	4, 5, 6, 7	95%
Apply basic educational strategies for teaching within the scope of physical therapy.	4, 5, 6, 7	97%

Based on these student clinic performance outcomes which align with program PLOs 1-7 our students have met the proposed outcome measures. In addition, the average Global Rating of Student Clinical Competency for the cohort of 2024 is 8.5/10, which exceeds the benchmark of 7/10 for "Meeting expectations and managing 100% of an entry-level caseload," with individual student scores ranging from 7/10 to 10/10

II. Brief Description of Faculty Engagement in the Current Annual Assessment Report:

As described last year, with the annual updating of the program outcomes matrix, faculty verify PLOs for courses in which they are primary instructors, thus providing them with the opportunity for ongoing assessment of all outcomes each semester, which include all 10 found here https://www.nyit.edu/planning/cpi_annual_reports. With the revision of the program matrix, course syllabi will be modified to include all NEW (2024) CAPTE evaluative criteria, including curriculum criteria numbers at the end of course objectives by the start of Fall 2024. This process will align our course objectives with the specific evaluative criteria as we prepare our SSR in 2026 for reaccreditation in 2027.

This report will be disseminated and discussed at the next Department meeting scheduled for August 2024.

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References

1. Fitzgerald LM, Delitto A, Irrgang JJ. Validation of the clinical internship evaluation tool. Phys Ther. 2007 Jul;87(7):844-60. doi: 10.2522/ptj.20060054. Epub 2007 May 1. PMID: 17472952.

2. National Physical Therapy Exam (NPTE) updates. acapt.org. https://acapt.org/news/news-detail/2023/08/07/national-physical-therapy-exam-(npte)-updates

Last updated 7/8/24