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PSU Athletic Training Practice Based Research Integrated Clinical Network [Project Proposal]

Liesl Lindley
Plymouth State University

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PSU Integrated Cluster (IC) Project Funding Process & Proposal Form

Project Proposal Submittal Process: All IC projects requesting funding will require the completion and submittal of three (3) forms:

- ☒ **Project Proposal Form – project scope & outcomes** (*included in this document*)
- ☒ **Project Guidelines Form – reflective document outlining desirable IC project attributes**
- ☒ **Project Budget Form – Excel spreadsheet to facilitate budget planning**

Instructions for Submitting Project Proposals:

- ✓ Download the 3 forms to your computer
- ✓ Complete the forms and save them; including the title of your project in the file name
- ✓ Forward the 3 files via email to the IC Project Manager, Ross Humer
rhumer@plymouth.edu
- ✓ Project Proposal will be logged & forwarded to the appropriate IC Guide Team

If not reviewed in advance of the submission, it is important to discuss the Project with the IC Guides to review, refine, and rework (if necessary) to obtain funding approval.

Project Funding Review Process: All proposed projects will be reviewed by the Cluster Guide team. Depending on the level of funding amounts being requested, the proposal request will follow the process outlined as follows:

- **Level 1:** Any project with a proposed budget of less than or equal to \$1,000 can be approved by the Cluster without additional review
- **Level 2:** Any project with a proposed budget of \$1,000 but less than \$5,000 can be approved by the IC Project Review Team, which is made up of representatives from each of the 7 Clusters (*see release time exception directly below*)
- **Level 3:** Any project with a proposed budget of \$5,000 or greater **or** requires faculty release time, must be first endorsed by the IC Project Review Team and submitted to the Academic Deans for review and approval

The project funding approvals are limited to one academic year; projects which require additional funding in subsequent years will need to be resubmitted annually for review and approval.

Deliverables: At the conclusion of the academic year, a deliverable to the Integrated Cluster Proposal Review Team and Academic Deans is required in order for the project director/coordinator, artist, or author and collaborator(s) to be eligible for future funding. This reporting requirement may be met by numerous means which will be identified as this process matures. It is anticipated that awardees will present their works before a wide public gathering to be scheduled during the upcoming Academic Year.

Instructions for the PSU Integrated Cluster Project Proposal Form: Please complete all of the elements of the following form in the spaces provided before saving and then submitting the document.

PSU Integrated Cluster Project Proposal Form

Title: PSU Athletic Training Practice Based Research Integrated Clinical Network

Project Leadership: (Identify Project Director/Manager or Co-Manager/s: Liesl Lindley

Project Description: Athletic Training students will be partnering with our local clinical sites to create an Integrated Practice Based Research Clinical Network through the use of web-based Electronic Medical Records and Patient Reported Outcomes. This process will allow the students (and faculty and staff) to establish and review injury surveillance data, athletic training practice trends, best practice and the clinical evidence supporting same. The development of this integrated network will greatly expand the clinical research opportunities for our students while also providing our clinical partners with valuable support and data to improve their own clinical practice and patient healthcare.

Project Goals and Outcomes:

1. **Project Goals – Briefly identify and describe the objectives of this project** The objectives are:

- (1) To introduce students to web-based Electronic Medical Records
- (2) To identify Clinical Best practices based on patient outcome measures
- (3) To apply the evidence to integrated athletic training clinical practice
- (4) To gain an understanding of the use, applications and importance of Electronic Medical records as well as the Insurance Coding requirements for diagnosis and intervention
- (5) To gather evidence from the integrated clinical network to provide students with significant research opportunities in the fields of injury epidemiology, risk and odds ratios for injury occurrence and therapeutic interventions leading to the most successful patient reported outcomes

2. **Student Learning Outcomes – Outline the expected student learning outcomes** At the conclusion of the lab, students will be able to:

- (1) Utilize Electronic Medical Records to document all patient interactions
- (2) Understand International Classification of Disease & Function (ICD-10) codes
- (3) Understand Current Procedural Terminology (CPT) codes for use during Therapeutic Interventions and to understand the economic value associated with interventions.
- (4) Utilize injury surveillance data to identify injury risk and odds ratios and to better determine clinically relevant injury prevention or intervention programs to reduce the identified risks.

- (5) Utilize a variety of Patient Reported Outcome (PRO) measures to improve clinical practice and whole person healthcare for successful outcomes
- (6) Understand the importance of collaboration across providers and across clinical sites to produce the most clinically relevant and valid intervention and prevention strategies.

Rationale and Impact:

Considering the questions below, please write your project rationale and impact statement.

Include how this project will further the Mission and Vision of PSU with respect to 1) fostering collaboration across disciplines; 2) addressing a relevant societal issue, and 3) establishing relationships with community partners, external institutions, companies, non-profits, schools, government agencies, etc. and 4). Making an impact

How does this proposed project advance the Integrated Cluster mission and vision? How does this project facilitate high impact teaching and learning, cross disciplinary collaboration, student engagement and partnership involvement, and real world problem exploration? What are the anticipated impacts of this project?

Is this project an extension of work already in progress, or an entirely new endeavor? Does it integrate with areas that team leaders are already teaching or is it an opportunity to delve into unfamiliar content or a bit of both?

Project Rationale and Impact Statement: This project has the ability to create a far-reaching impact for our students. While the focus of the project on campus is the athletic training program and athletic training students, the potential impact beyond the major, for our student-athlete patients and for our community partners is tremendous. Whole person healthcare and injury and disease prevention and their role in reducing the cost and burden of healthcare are critical societal issues. Athletic trainers act in their capacity as primary care providers and have the unique opportunity to create injury prevention and intervention programs that can improve patient outcomes, increase quality of life and delay or prevent future injury and disease such as osteoarthritis in the physically active population.

The creation of the PSU-AT Practice Based Research Integrated Clinical Network will allow us to partner more closely with the schools in the surrounding area. To begin, we plan to expand our existing clinical partnerships with Plymouth Regional High School, Holderness School, New Hampton School and Tilton School. Future expansion to include additional community schools is likely. The partnerships with the local schools will provide our students a greater opportunity to engage in clinical practice based research and to implement the findings of that research to positively impact patient populations in the area. The potential for direct impact is based on the exchange of patient related data that will be developed through the creation of an integrated clinical network. Students will have the opportunity to potentially and easily explore a local pool of hundreds of patients in relevant populations rather than the limited pool of patients and patient data to which they currently have access. This larger patient pool should lead to more valid and reliable research findings and clinical applications. The potential for direct patient impact is tremendous. As injury risk factors are identified in the local populations and

treatments are identified that promote the most consistent best patient outcomes, those can be directly translated into clinical practice.

Project Team

PSU Project Participants (essential core team participants including faculty and staff)

Name	Position/ Title	Project Role	Discipline/ Specialty	Email
Liesl Lindley	Athletic Training Program Director of Clinical Instruction, Clinical Education Coordinator	Coordinator	Athletic Training	llindley@plymouth.edu
Students	Undergraduate	Participant	Athletic Training	
Students	Graduate	Participant	Athletic Training	
AT Staff	Head Athletic Trainer, Asst. Athletic Trainers	Participant	Athletic Training	

Non-PSU Project Participants (stakeholders; partners; academic institution; etc.)

Name	Organization	Project Role	Discipline/ Specialty	Email
John Brule	Plymouth Regional High School	Participant	Athletic Training	jrbrule@gmail.com
Charles Carter	Tilton School	Participant	Athletic Training	ccarter@tiltonschool.org
Pamela DeVeaux	Tilton School	Participant	Athletic Training	pdeveaux@tiltonschool.org

Nicholas Laurence	Holderness School	Participant	Athletic Training	nlaurence@holderness.org
Kristin McClure	New Hampton School	Participant	Athletic Training	kmclure@newhamptom.org
Adam Tyson	New Hampton School	Participant	Athletic Training	atyson@newhampton.org

Student Participant Profile (Identify the student population/s to be engaged in the project. Identify if this has been or is planned to be incorporated into curricula)

Class/ Student Organization/ Individuals	Role in Project	Academic Level (Undergraduate or Graduate)	Academic Discipline	Total Student Population
Athletic Training majors	Participant	Undergraduate and graduate	Athletic Training	~ 35

This project will be incorporated into the pre-existing clinical curricula for the AT program.

IRB (Institutional Review Board) Compliance

IRB Compliance: <http://www.plymouth.edu/office/institutional-review-board/>

- This project DOES NOT require IRB compliance
- This project DOES require IRB compliance (*complete below*)

IRB Approval Status: *Select an Option*

IRB Approval Date: *Click here to enter a date.*

Any funding approvals of IRB-required projects are contingent on obtaining IRB approval.

Project Management: Timeline and Milestones

Identify the timeline for the project including start, completion, and major project milestones. A closing report will be required as a part of the project funding process.

Project Start Date: 9/5/2017

Project Complete Date: 5/18/2018

- This project is expected to be ongoing and will not terminate at the end of the 17-18 academic year. The initial request is based on sufficient start-up costs to create the best access to the software support for the clinical network.
- This project will require future periodic, ongoing support to maintain and/or replace the technology supporting the data collection.

Project Milestone	Milestone Description	Target Completion Date
Memo of Understanding	Completed and signed MoU for each participating clinical site	9/5/2017
Presentation of Injury Surveillance data	Students will compile and formally present data gathered within the clinical network sites with a focus on patient outcomes. There will be multiple presentations based on the conclusion of each athletic season.	5/7/2018
Student & Participant Survey	Favorable scores on a satisfaction survey indicating a desire to continue this project	5/18/2018
Initial creation of Clinical Research Questions	Because it will take a while to accumulate enough data to really produce valuable patient outcome and clinical best practice data, the initial year of the program will focus on students reviewing the available data and beginning to create relevant clinical questions for further research and exploration.	12/04/2017 05/07/2018

Please identify any pre-project education or training for students, faculty, and staff that would be helpful for your project team to have in advance to begin work on a strong footing (e.g., skill training, concepts), and identify any training and education that you are willing to help provide during the preparatory period for the project team before team work formally begins.

Education/ Training Requirements: There is a required online training module that must be completed by every participant using the CORE-AT Electronic Medical Record system. The module consists of 10 short video presentations with each followed by 3 – 4 basic knowledge questions. In addition to the online training, I will conduct an additional orientation and training session in using the software for each participant. No additional training is required as all other aspects of the project and projected outcomes and possible research opportunities are covered in the pre-existing coursework within the

athletic training curriculum. At the conclusion of the academic year, all participants (PSU and Non-PSU) will be invited to a formal presentation workshop where accumulated data and initial findings will be presented. This final workshop will also allow feedback on the project itself so that any necessary changes may be implemented going into the next academic year.