Teamwork Makes the Dream Work

Optimizing Performance through Interprofessional Collaboration Among Athletic Trainers, Physical Therapist, and Other Members of the Healthcare Team

OBJECTIVES



- Describe the scope of practice for an Athletic Trainer and Physical Therapist
 - Variety of roles they can serve within a health care team.
- Identify ways that Athletic Trainers are utilized to extend the reach of a clinic and provide proper direction of care.
- Examine how Athletic Trainers and Physical Therapists work to help bridge the gap between patients and providers.







Disclosures

Site Supervisor, Physical Therapist, and Head Athletic Trainer at the Rec Plex.

I have no financial relationships to disclose.

Intro
Athletic Trainer
Seth Light
MSA, LAT, ATC

I have no financial
relationships to disclose.







Educational Requirements & Competencies

- Undergraduate Requirements
 - Basic & Applied Sciences
 - Professional Content
 - Clinical Experience
- Graduate School
 - Masters in Athletic Training
- ATC credential via BOC
- Continuing Education





Role of Athletic Trainer

- Athletic trainers collaborate with physicians to optimize patient activity, participation in athletics, work and life.
- Injury prevention
- Initial examination
- Diagnosis, referral, treatment, and rehabilitation
- Minimize subsequent complications

Front Line



Clinical Efficiency

Clinical Role

- Vitals & history
- Musculoskeletal exam
- Ordering imaging & labs
- Plan treatment
- Documentation

Results

- Increase of 3 patients per day
- Decreased physician time
- AT present 24.8 min
- Without AT 24.5 min

	MA Time (min)	AT Time (min)	Physician Time (min)	Overall Time (min)		
Orthopedic						
AT with physician	N/A	12.9	11.9	24.8		
Physician with MA	5.5	N/A	19	24.5		
General Medicine						
AT with physician	N/A	10.7	9.7	20.4		
Physician with MA	5.5	N/A	13.3	18.8		
Overall						
AT with physician	N/A	12.2	10.7	22.9		
Physician with MA	5.5	N/A	16.1	21.6		

Pecha et al, 2017

Medical Professionals	No. Patients Seen per Clinic Day	Time Documenting (min)	No. Charts Left to Dictate	
AT with physician	24.2	28.5	7	
Physician 21.2 21.2		66	21	

AT, athletic trainer; MA, medical assistant.

Pecha et al, 2017





Athletic Trainer Work Settings





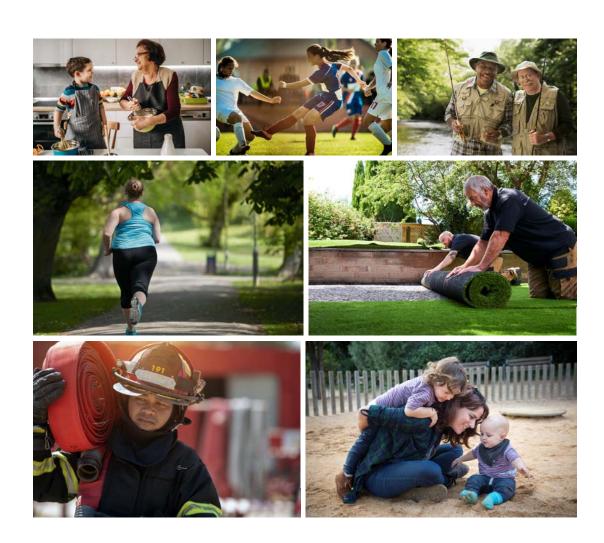
Role of the Physical Therapist



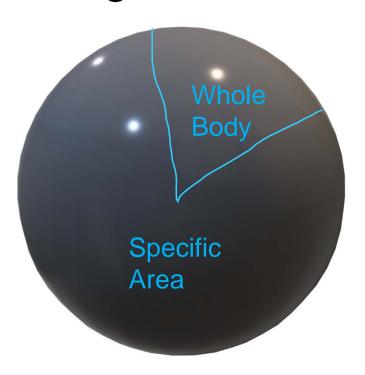




What is Performance Training?



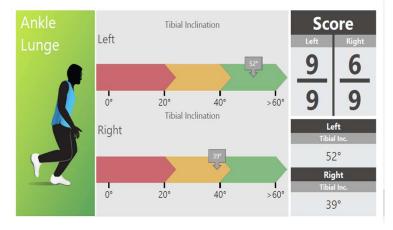
Physical Therapy vs Performance Training



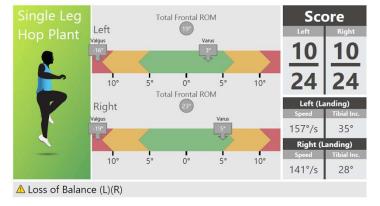


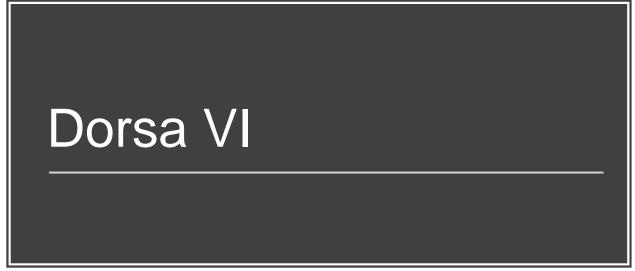






Athletic Movement Index





Benefits of Interprofessional Collaboration

Development of Personal Relationships

Optimizes health-services

Strengthens health systems

Improves health outcomes

Access to and coordination of health-services

Appropriate use of specialist clinical resources

Health outcomes for people with chronic diseases

Patient care and safety

Improves staff satisfaction

- Ensure your Starting Line Up: You've got the best Team
- Establish a Great Game Plan
- Coaching through out the POC
 - Phone calls / Conversations / Messages
 - Explain the Surgery
 - Discuss Pathology and Treatment
 - Give Updates, Progress Summary, <u>Discuss Setbacks</u>
 - Return to Play Testing Results
 - Opinions regarding readiness for RTP
 - Assessing patient's together or CoTx

How Can You Set Up Your Team for Success?

Dr. Bauman

Interdisciplinary Approach

January 6, 2020

Association of Time Since Injury to the First Clinic Visit With Recovery Following Concussion

Anthony P. Kontos, PhD^{1,2}; Kendra Jorgensen-Wagers, PhD^{3,4}; Alicia M. Trbovich, PhD^{1,2}; <u>et al</u>

» Author Affiliations | Article Information

JAMA Neurol. 2020;77(4):435-440. doi:10.1001/jamaneurol.2019.4552

Table 4. Factors Significantly Associated With Recovery Time Groups, per Logistic Regression^a

Constant	Adjusted Odds Ratio	P Value
Late initiation of clinical care	5.8 (1.9-17.6)	.002
Visual motion sensitivity symptoms over clinical cutoff	4.5 (1.1-18.0)	.04

^a The recovery time groups were those with 30 days or less or more than 30 days to recovery; the total group was 122 individuals.

Interdisciplinary Approach

> Int J Psychophysiol. 2018 Oct;132(Pt A):93-98. doi: 10.1016/j.ijpsycho.2017.08.003. Epub 2017 Aug 14.

Kinematic differences during a jump cut maneuver between individuals with and without a concussion history

Andrew P Lapointe ¹, Luis A Nolasco ², Aniela Sosnowski ¹, Eva Andrews ¹, Douglas N Martini ³, Riann M Palmieri-Smith ⁴, Deanna H Gates ², Steven P Broglio ⁵

Affiliations + expand

PMID: 28818697 DOI: 10.1016/j.ijpsycho.2017.08.003

Varus

Left: M_{conc}=-0.5±1.0°, M_{ctrl}=3.6±1.0°

Right: $M_{conc}=5.1\pm1.2^{\circ}$,

 $M_{ctrl} = 7.8 \pm 1.12^{\circ}$

Valgus

Left: $M_{conc} = 2.5 \pm 1.6^{\circ}$, $M_{ctrl} = 13.0 \pm 10^{\circ}$

Right: M_{conc}=7.7±1.6°, M_{ctrl}=12.8±1.

> J Orthop Sports Phys Ther. 2018 Jul;48(7):533-540. doi: 10.2519/jospt.2018.8053. Epub 2018 May 8.

Risk for Lower Extremity Injury After Concussion: A Matched Cohort Study in Soldiers

Joseph R Kardouni, Tracie L Shing, Craig J McKinnon, Dennis E Scofield, Susan P Proctor

PMID: 29739302 DOI: 10.2519/jospt.2018.8053

Injury within 2 years = 38% greater. Injury within 15 months = 45% greater

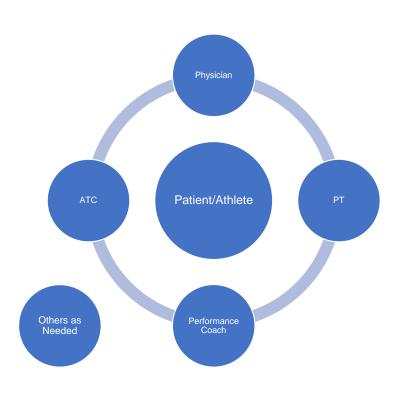
suggestive of increased knee injury



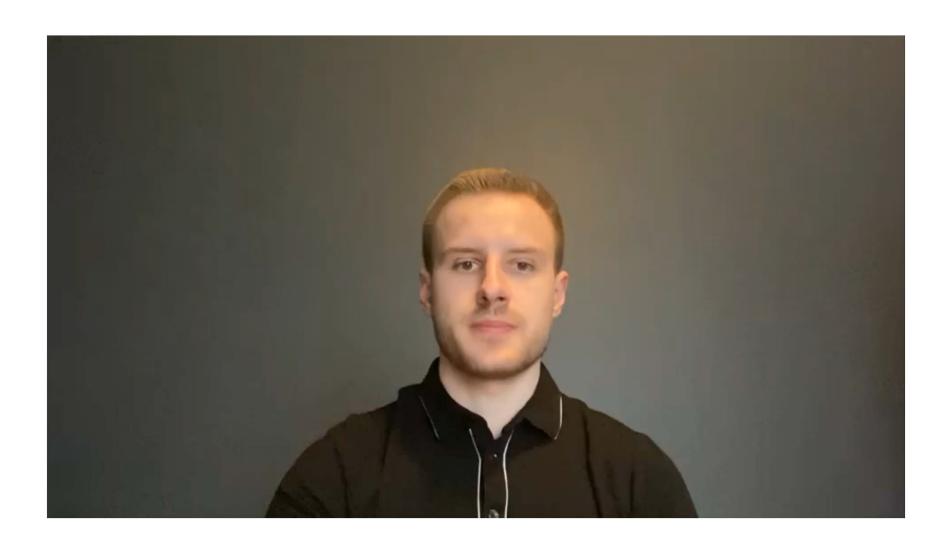
Case Study: Interdisciplin ary Approach at the Rec Plex

- 15-year-old male, hockey player
- Competing, headfirst into the dasher board
- PMHX: Bilateral Patellar Tendonitis

Action Steps



- 1.) On the field assessment by ATC
- 2.) Referral to Physician Physician Assessment
- 3.) Referral to PT PT Assessment
- 4.) Return to play gradual progression
- 5.) Integration of Performance Testing/Training

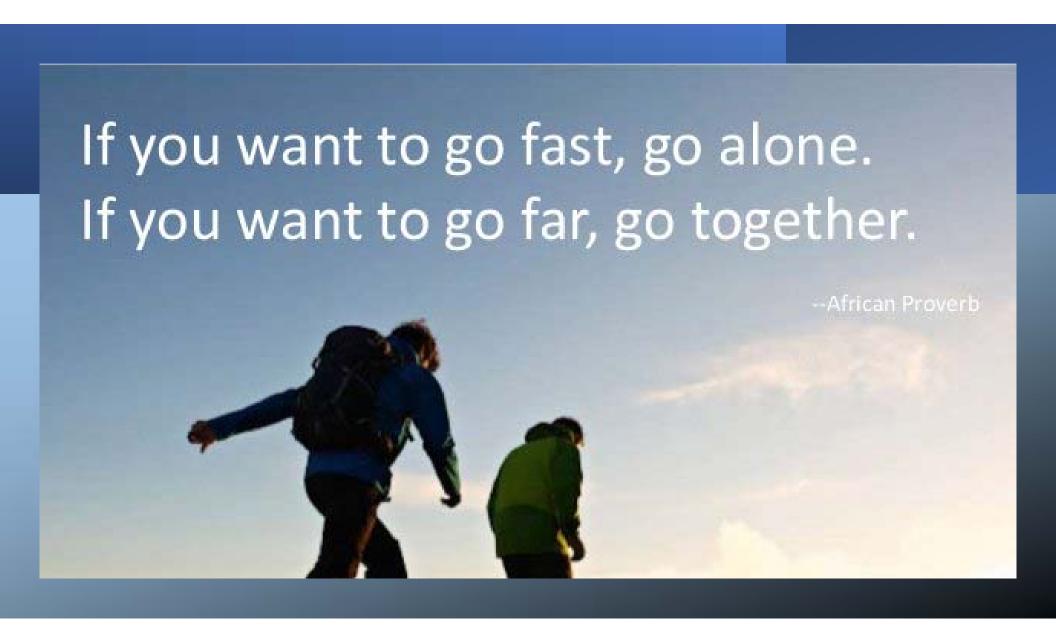


Things People are Saying

I initially went to DMU inspired by their advertisement of run and/or bike analysis.

I limped into the clinic on day 1 struggling from a run injury. Currently, I am gaining strength and rebuilding skills that I lost while hurt, and through the years. The performance class has been a game changer for me as I improve on strength, balance, and flexibility. Something every age needs! I love the facility!





References

- Athletic Training Services: An Overview of Skills and Services Performed by Certified Athletic Trainers. National Athletic Trainers' Association. January, 2010. http://www.nata.org/sites/default/files/GuideToAthleticTrainingServices.pdf. A
- Education Overview. NATA. Published July 27, 2017. https://www.nata.org/about/athletic-training/education-overview
- Shanley E, Thigpen CA, Chapman CG, Thorpe J, Gilliland RG, Sease WF. Athletic trainers' effect on population health: improving access to and quality of care. *Journal of athletic training*. 2019;54(2):124-132. doi:10.4085/1062-6050-219-17.
- Pecha, Omdal, Koen, Wick. Athletic trainers' role in improving efficiency in the primary care setting. *Journal of medical practice management*. 2017;33(3):180-180.

References

- G Ulrich & AP Breitbach (2022) Interprofessional collaboration among sport science and sports medicine professionals: an international cross-sectional survey, Journal of Interprofessional Care, 36:1, 4-14, DOI: 10.1080/13561820.2021.1874318
- Kontos AP, Jorgensen-Wagers K, Trbovich AM, et al. Association of Time Since Injury to the First Clinic Visit With Recovery Following Concussion. *JAMA Neurol.* 2020;77(4):435–440. doi:10.1001/jamaneurol.2019.4552
- Kardouni JR, Shing TL, McKinnon CJ, Scofield DE, Proctor SP. Risk for Lower Extremity Injury After Concussion: A Matched Cohort Study in Soldiers. J Orthop Sports Phys Ther. 2018;48(7):533-540. doi:10.2519/jospt.2018.8053
- Lapointe AP, Nolasco LA, Sosnowski A, et al. Kinematic differences during a jump cut maneuver between individuals with and without a concussion history. *Int J Psychophysiol*. 2018;132(Pt A):93-98. doi:10.1016/j.ijpsycho.2017.08.003