

Official Publication of the National Athletic Trainers' Association



Journal of Athletic Training



Volume 47 Number 1 January–February 2012

- *Adding Whey Protein to Postexercise Rehydration*
- *Factors Predicting Meniscal Injuries*
- *Menstrual Irregularity and Musculoskeletal Injury*
- *Preventing Sudden Death in Sports*



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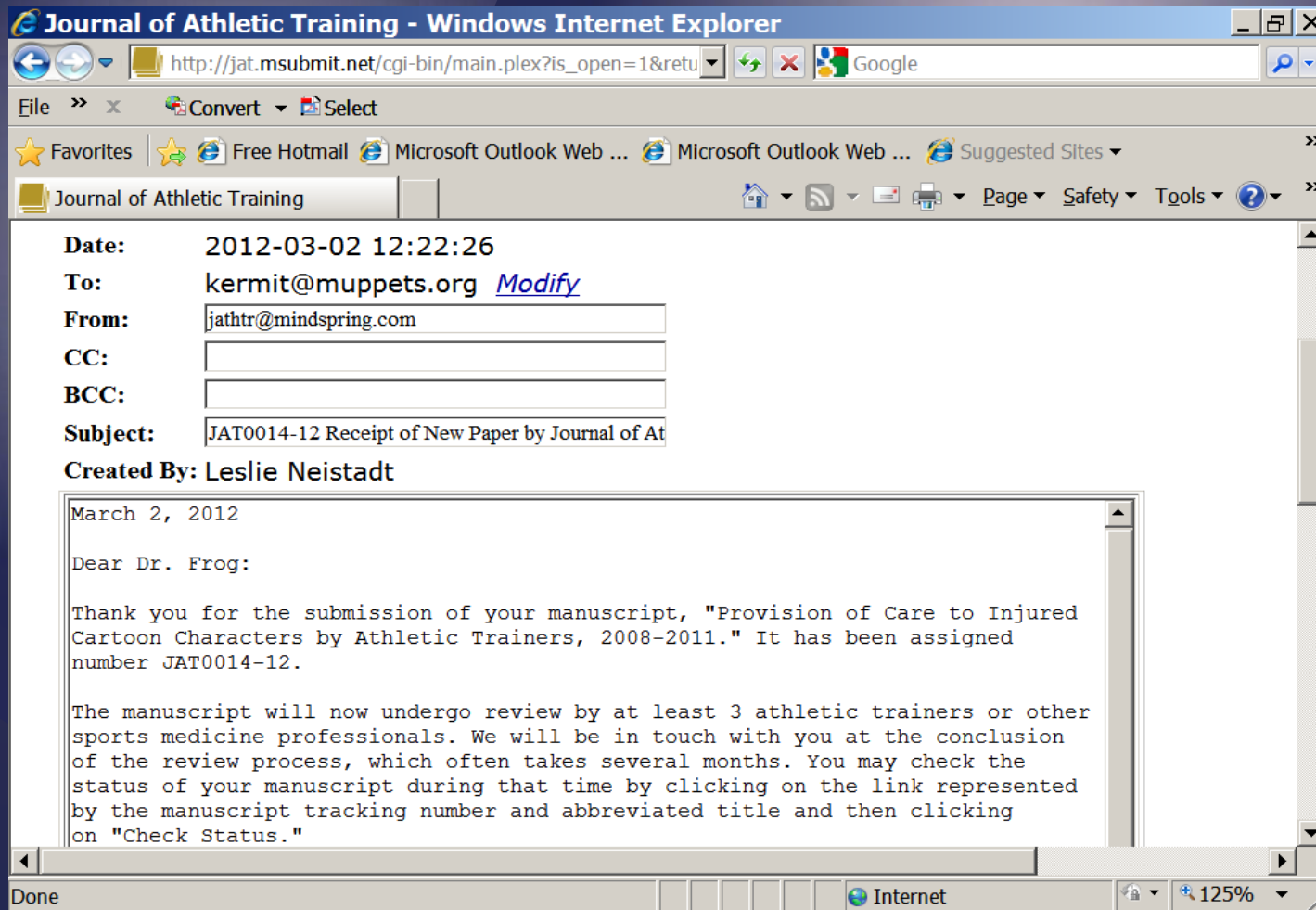
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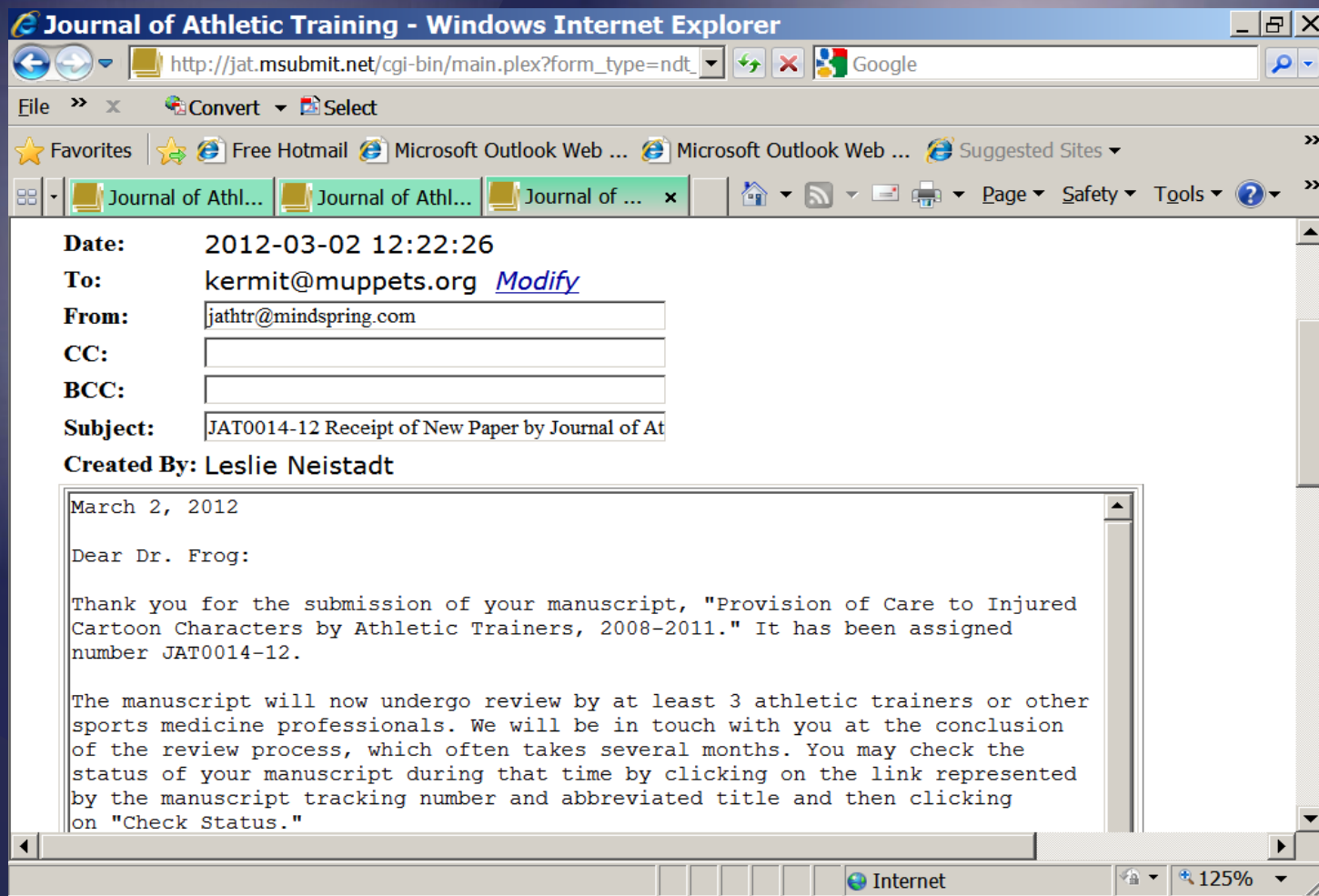
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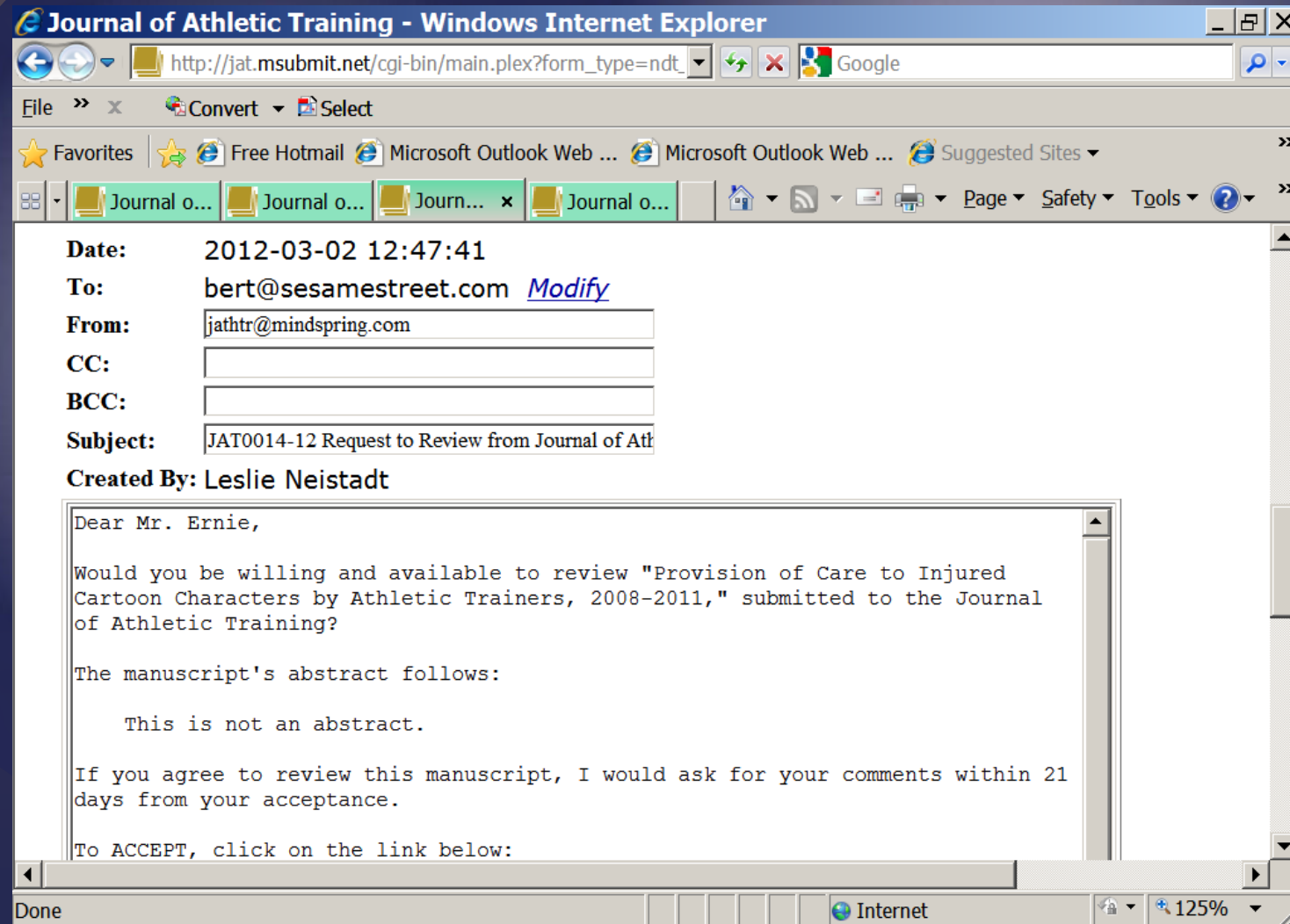
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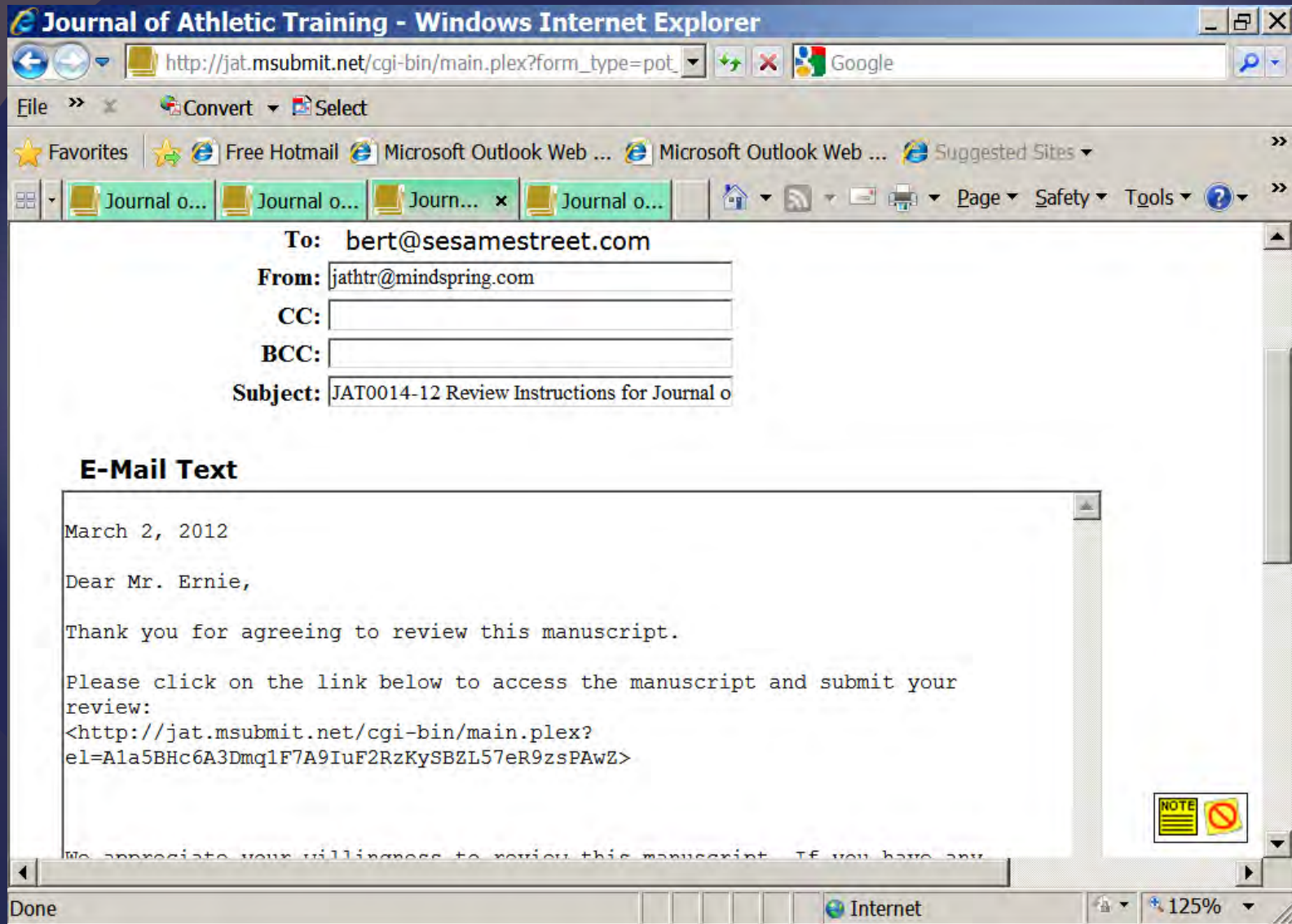
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Manuscript #	JAT0014-12
Title	Provision of Care to Injured Cartoon Characters by Athletic Trainers, 2008-2011
Corresponding Author	Kermit Frog
Contributing Author	Theodore Chipmunk, Buzz Lightyear

Evaluation	
Question	Answer
Importance to athletic training	3
Overall Content	3
Overall Presentation	3

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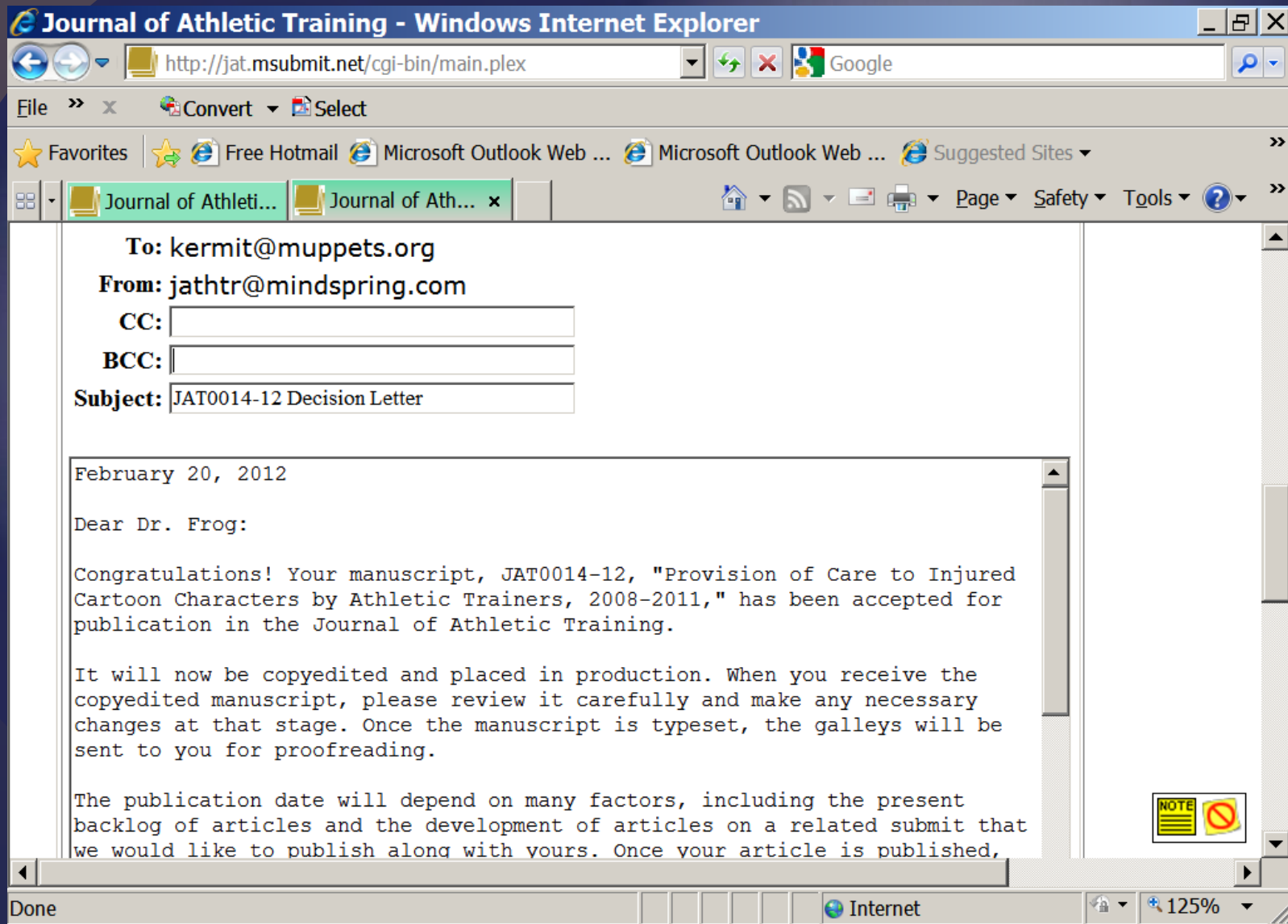


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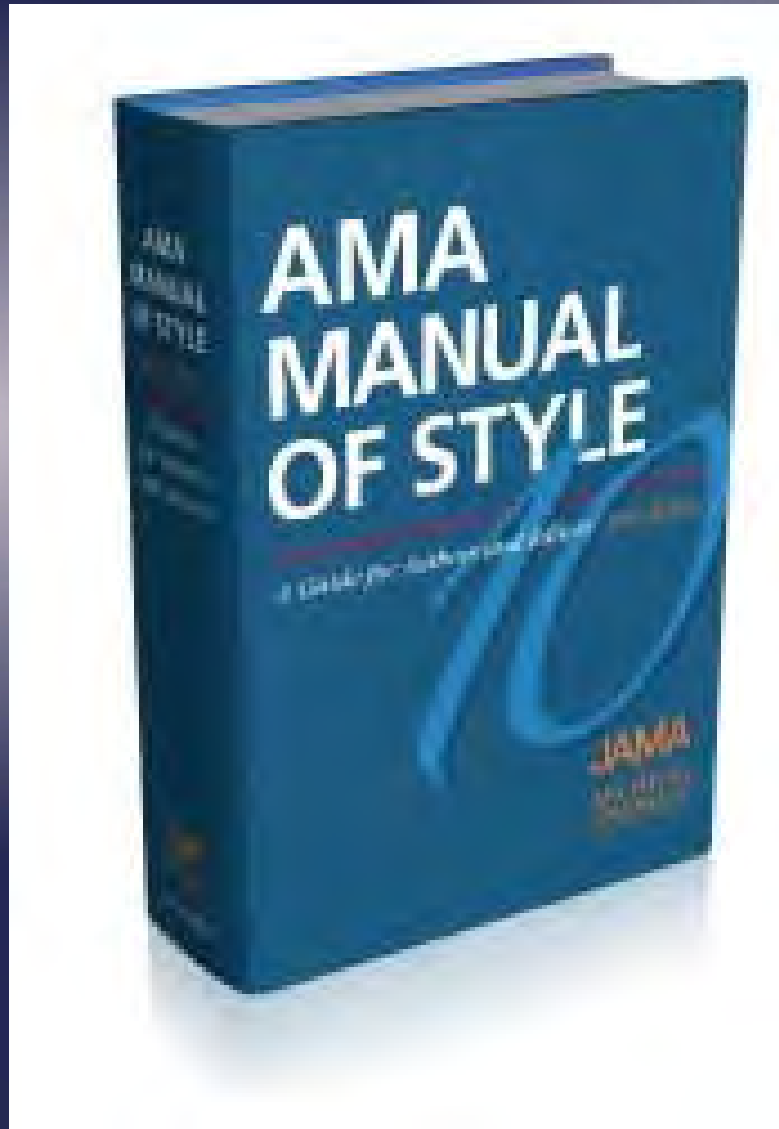
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Key Points

- During a single-limb landing task, participants with chronic ankle instability displayed increased time to stabilization in the anteroposterior direction on the injured side.
- Those with chronic ankle instability also demonstrated decreased sagittal knee-flexion angle at initial ground contact.

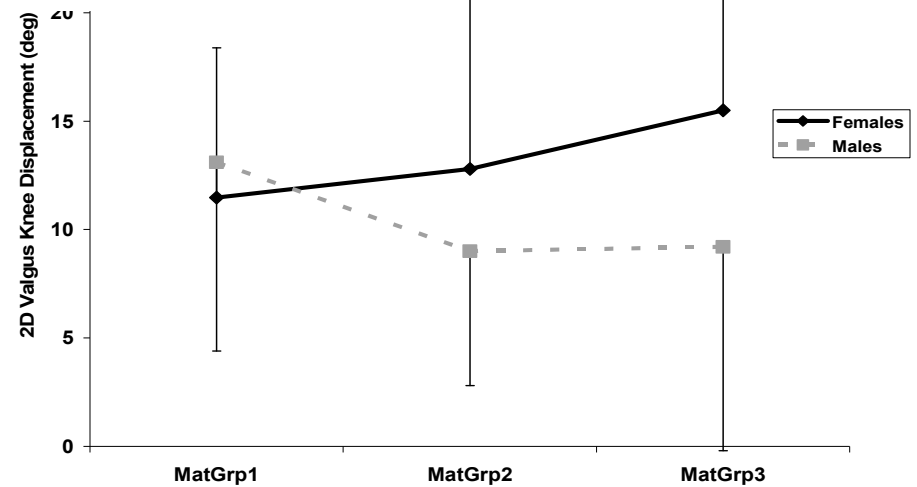
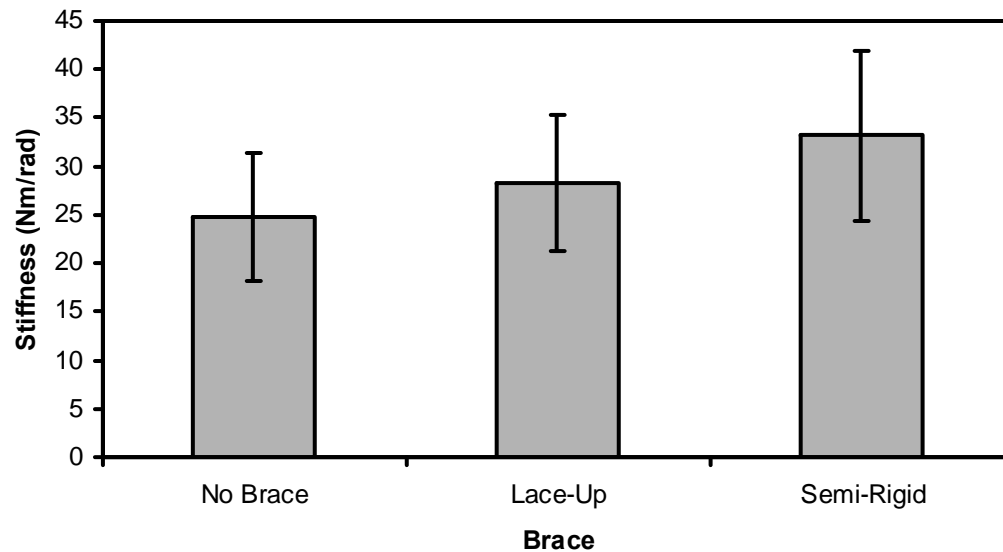
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Editing tables

		Females		Males																		
		Mean ± Sd	Range	Mean ± Sd	Range																	
	MatGrp1	10.9±1.4	9 - 14	11.2±1.2	9 - 14																	
	Age (yr)	13.5±1.6	12 - 18	14.1±1.6	12 - 16																	
	MatGrp2	17.6±1.0	14 - 18	17.2±1.3	13 - 18																	
	MatGrp3																					
	MatGrp1	154.0±31.5	104.9 - 176.5	146.1±7.4	132.1 - 161.9																	
	Height (cm)	159.8±8.9	125.0 - 163.0	165.4±11.6	143.7 - 188.6																	
	MatGrp2	167.3±6.8	153.7 - 180.3	176.2±8.9	162.6 - 189.1																	
	MatGrp3																					
	MatGrp1	40.4±10.2	25.0 - 67.1	37.2±8.1	28.0 - 58.0	PB	Stable	3.57	6.04	0.80	6.30	0.330	3.30	6.80	0.60	6.00	0.290	3.81	6.90	1.00	6.60	0.361
	Mass (kg)	50.2±8.7	37.7 - 72.1	56.7±12.0	36.9 - 81.4																	
	MatGrp2	64.9±8.2	52.0 - 85.3	75.9±13.3	55.8 - 107.3																	
	MatGrp3			Unstable	1.70																	
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371

372 1. Arendt E, Dick R. Knee injury patterns among men and women in collegiate

373 basketball and soccer. *NCAA data and review of literature. Am J Sports Med.*

374 1995;23(6):694-701.

375

376 2. Malone TR, Hardaker WT, Garrett WE, Feagin JA, Bassett FH. Relationship of

377 gender to anterior cruciate ligament injuries in intercollegiate basketball players.

378 *Journal of Southern Orthopaedic Association.* 1993;2(1):36-39.

379

380 3. Myklebust G, Maehlum S, Holm I, Bahr R. A prospective cohort study of anterior

381 cruciate ligament injuries in elite Norwegian team handball. *Scand J Med Sci*

382 *Sports.* 1998;8(3):149-153.

383

384 4. Andrich JT. Anterior cruciate ligament injuries in the skeletally immature patient.

385 *Am J Orthop.* 2001;30(2):103-10.

386

387 5. Buehler-Yund C. A longitudinal study of injury rates and risk factors in 5 to 12

388 year old soccer players [dissertation]. Cincinnati: University of Cincinnati. 1999.

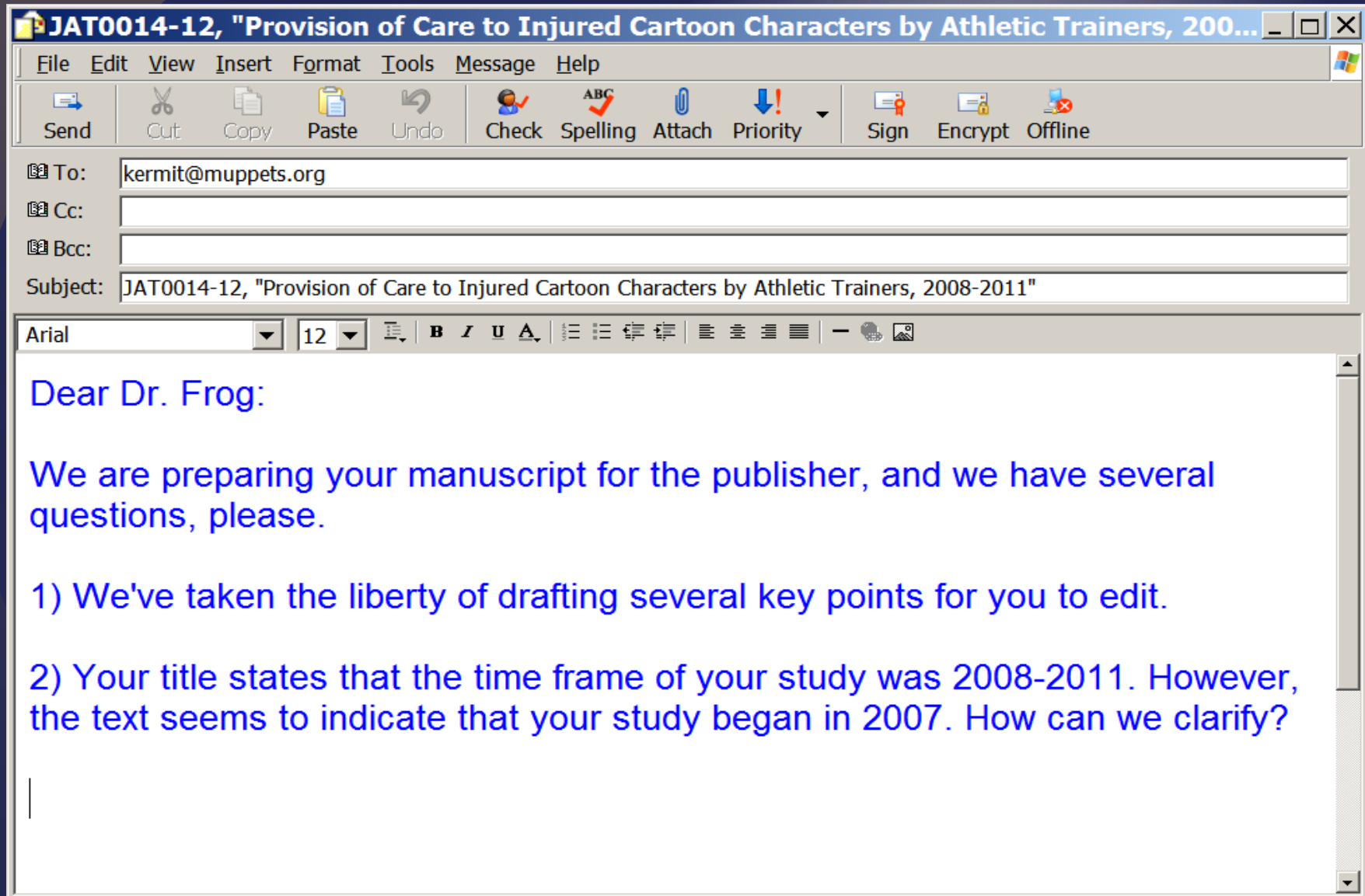
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390 6. Clanton TO, DeLee JC, Sanders B, Neidre A. Knee ligament injuries in children.

391 *J Bone Joint Surg Am.* 1979;61(8):1195-201.

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Original Research

Clinical Studies

Acute Lower Extremity Running Kinematics After a Hamstring Stretch

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Terry L. Grindstaff, PhD, PT, ATC, CSCS; Jay Hertel, PhD, ATC, FNATA, FACSM; James R. Beazell, DPT, OCS, ATC, FAAOMPT; Eric M. Magrum, DPT, PT, OCS, FAAOMPT; D. Casey Kerrigan, MD, MS; Xitao Fan, PhD; Christopher D. Ingersoll, PhD, ATC, FNATA, FACSM 24

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National Athletic Trainers' Association Position Statement: Preventing Sudden Death in Sports

Douglas J. Casa, PhD, ATC, FNATA, FACSM (co-chair); Kevin M. Guskiewicz, PhD, ATC, FNATA, FACSM (co-chair); Scott A. Anderson, ATC; Ronald W. Courson, ATC, PT, NREMT-I, CSCS; Jonathan F. Heck, MS, ATC; Carolyn C. Jimenez, PhD, ATC; Brendon P. McDermott, PhD, ATC; Michael G. Miller, PhD, EdD, ATC, CSCS; Rebecca L. Stearns, MA, ATC; Erik E. Swartz, PhD, ATC, FNATA; Katie M. Walsh, EdD, ATC 96

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Editorial: New Joint Venture

Craig R. Denegar, PhD, ATC, PT, FNATA; William A. Pines, EdD, ATC, FNATA; Gary B. Wilkerson, PhD, ATC 119

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