HEAT ILLNESS INDEX SCORE (HIIS) RISK ASSESSMENT TO BE COMPLETED BY THE CERTIFIED ATHLETIC TRAINER

Partic	cipant/Athlete: Date: Time:					
Site: _	ATC:					
	Part 1. Exertional Heat Illness (EHI) Risk Factors ATC INSTRUCTIONS: Read each question to the athlete and record the presence of EHI risk factors.					
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1. A.	Have you ever experienced Exertional Heat Illness (use attached descriptions if necessary)? NO / YES					
В.	If YES, how many incidents? (Complete section below for most recent incident. For more than one incident, complete attached form)					
C.	How long ago was your most recent incident? days / months / years (Circle one) What were your signs and symptoms? Use attached Signs and Symptoms of EHI Table and Definitions of EHI to categorize this incident: Dehydration Heat Cramps Heat Exhaustion Heat Stroke					
D.	Who restricted you from activity? (<i>Please circle</i>) Physician / Certified Athletic Trainer / EMT or Paramedic / Parent / Coach / Self / Other How long were you restricted from full activity? (<i>Check one</i>). Mild = part of a practice or less than 1 day restricted from activity Moderate = multiple practices or more than 1 day restricted from activity, and/or out-patient hospitalization (≥1 day) Severe = in-patient hospitalization (>1 day)					
Pr 0 1 2 3 4	No history of EHI Risk Factor (Circle highest) No history of EHI One incident of Dehydration One or more incidents of Heat Cramps One or more incidents of Heat Exhaustion One or more incidents of Heat Stroke					
2. A.	How many hours do you usually sleep on a daily basis? hours					
B. 0 1 2 3 4	In the last week, how many nights did you sleep in a non-air conditioned room? Once or less Twice Three times Four times More than four times per week					
C. 0 1 2 3 4	In the last week, how many nights did you get less than your normal amount of sleep? Once or less Twice Three times Four times More than four times per week					

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3.	In the last week, have you had any illness with a fever (>101°F) or digestive problems such as vomiting or diarrhea? O No illness present Less than 1 day in duration Lasting about 2 days Lasting about 3 days More than 4 days in duration	
4.	When you compete, what is your level of motivation? None, I don't want to compete Motivated some of the time Motivated most of the time Highly motivated most of the time Highly motivated all the time	
5.	In the past 3 months, what was your average intensity and duration of your cardiovascular training? (<i>Circle highest</i>) 0 Intense training more than 90 min/week 1 Intense training 30 – 90 min/week 2 Moderate training 30 – 90 min/week 3 Light training more than 90 min/week 4 No activity or Light training less than 90 min/week Light (6 – 11 on Borg scale) = Extremely light, or very light (easy walking slowly at a comfortable pace) Moderate (12 – 14 on Borg scale) = Somewhat hard (it is quite an effort; you feel tired but can continue) Intense (15 – 20 on Borg scale) = Heavy or very strenuous, and you are very fatigued, extremely hard (you can not continue for long at this pace), or maximal exertion	
6.	Of the cardiovascular training reported in question 5, what percent of your training was performed outdoors in the following conditions? (<i>Circle highest</i>) O At least 75% of my training was outdoors between 10 am and 4 pm in Hot, Humid conditions 1 50 - 74% of my training was outdoors between 10 am and 4 pm in Hot, Humid conditions 2 Less than 49% of my training was outdoors between 10 am and 4 pm in Hot, Humid conditions 3 50% or more of my training was outdoors before 10 am/after 4 pm in Hot Humid conditions or betw 10 am and 4 pm in Warm, Dry conditions 4 Less than 49% of my training was outdoors in Warm, Dry conditions or I train in Air Conditioning Hot, Humid = Greater than 85 °F and 68% relative humidity Warm, Dry = Between 70 and 84 °F and less than 68% relative humidity Training History:	
	Training duration at current geographic location: days / months / years (circle one) Previous geographic location (City, ST): Training duration at previous geographic location: days / months / years (circle one)	
7.		

creatine or amino acids

□ Alcohol

□ ephedra (ma huang, pseudoephedrine)

☐ Red BullTM or other "energy drinks"

☐ Other? Be specific: _____

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	Of the products identified above, how much/how often are these products consumed on a cumulative daily basis? Specify the type/ brand/ amount consumed:
	B. Using dose or serving size recommended by manufacturer, identify cumulative amount consumed: (Circle highest) 1 Less than 1 dose or serving/day 1 About 2 doses or servings/day 2 About 3 doses or servings/day 3 About 4 doses or servings/day 4 Greater than 4 doses or servings/day
\mathbf{A}^{T}	art 2. Resting Baseline Information ΓC INSTRUCTIONS: Record the information and circle the number according to the following signs of tertional Heat Illness
	Baseline hydration level. <i>Measure urine specific gravity using clinical refractometer (preferably)</i> . Method used to determine USG (Circle one). Refractometer / Dip sticks / Other (<i>Specify</i>)
9.	Body Mass Index = (body mass in kg/height in cm x height in cm) x 10,000 = kg•cm ⁻² Record the following: Gender M/F Body masskg Heightcm Ageyr Use the online calculator at: http://www.halls.md/body-mass-index/av.htm and record the following:
	Athlete's Body Mass Index. (Circle one) O Less than 25 th percentile 1 26-40 th percentile 2 41-60 th percentile 3 61-84 th percentile 4 Greater than 85 th percentile

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10. VO_{2max} Run Test. Athletes MUST be cleared for participation by a physician. This task should be performed prior to the beginning of pre-season practices. After a warm up, have the athlete walk or run as fast a possible for exactly 12 minutes.

Enter the distance s/he was able to reach in 12 minutes: _	m.
Use the following calculation (Distance covered in meters	-504.9) $\div 44.73$ or the following online
calculator to estimate the VO_{2max} : <u>http://www.brianmac.de</u>	emon.co.uk/gentest.htm

Estimated VO_{2max}: _____ ml/kg/min

Athlete's estimated VO_{2max} . (Circle one)

- 0 Superior > 52.4
- 1 Excellent 46.5-52.4
- 2 Good 42.5-46.4
- 3 Fair 36.5-42.4
- Poor < 36.4

Reference: The Physical Fitness Specialist Certification Manual, The Cooper Institute for Aerobics Research, Dallas TX, revised 1997 printed in Advance Fitness Assessment & Exercise Prescription, 3rd Edition, Vivian H. Heyward, 1998.p48. (For Males 20-29 years old).

IF INFORMATION IS AVAILABLE: Has this athlete been tested for Sickle Cell Trait? YES / NO If YES, what were the results? NEGATIVE / POSITIVE (circle one) Is this self-report data from athlete? YES / NO (circle one)

Part 3. Assessment of Exertional Heat Illness (EHI) Risk Factors

ATC INSTRUCTIONS: Add the points for each question to determine this athlete's risk of EHI.

Total Score:	
Number of Questions scaring 4	

Total Score	Risk	Recommendations for Exercise in Hot, Humid Environments
30 – 44 or score of 4 on 3 or more questions	High	This athlete is a cause for concern. Reduce intensity and duration of exercise in Hot, Humid Environments and monitor this athlete closely. Strictly follow established guidelines for provision of ample fluids and rest in the shade.
15 – 29	Moderate	There is less of a concern for this athlete; however, risk exists. Follow recommended guidelines for work:rest ratios and provide ample fluids and rest in the shade.
0 – 14	Low	This athlete is least at risk; however, risk exists. Provide ample fluids and rest in the shade according to established guidelines.

This Athlete's risk of EHI: HIGH MODERATE LOW (circle one).

Appendix. Final Heat Illness Screening Instrument

Abbreviations: ATC, certified athletic trainer; EMT, emergency medical technician; USG, urine specific gravity; Vo_{2max}, maximal oxygen consumption.

Reference for Borg scale: Borg.25

Manufacturers: Ritalin (Novartis International AG, Basel, Switzerland); Red Bull (Red Bull North America, Santa Monica, CA).