Supplementary Table A. Descriptive statistics (median and interquartile range) and percentage distribution of the Pittsburgh Sleep Quality Index (PSQI) items for male and female athletes.

PIU	Phusburgh Sleep Quanty Index (PSQI) items for male and female athletes.			
	QI Items	Male $(n = 108)$	Female $(n = 371)$	
	During the past two weeks, when have you usually gone to bed at night? (hrs:min)	22:00 (21:30-22:30)	22:00 (21:30-22:30)	
	During the past two weeks, how long has it usually taken you to fall asleep each night? (min)	15 (10-30)	15 (10-30)	
3.	During the past two weeks, when have you usually gotten up in the morning? (hrs:min)	06:30 (05:30-07:00)	07:00 (06:00-07:30)	
	During the past two weeks, how many hours of actual sleep did you get at night? (hours)	7.75 (7-8)	8 (7-8.5)	
3.	During the past two weeks, how often have you had trouble sleeping because:			
	• Cannot get to sleep within 30 minutes			
	None during the past two weeks (%)	36.1	26.4	
	Less than once a week (%)	29.6	29.9	
	Once or twice a week (%)	29.6	27.8	
	Three or more times a week (%)	4.6	15.9	
	 Wake up in the middle of the night or early morning 			
	None during the past two weeks (%)	28.7	20.5	
	Less than once a week (%)	25.9	22.9	
	Once or twice a week (%)	25.9	31	
	Three or more times a week (%)	19.4	25.6	
	 Have to get up to use the bathroom 			
	None during the past two weeks (%)	27.8	35	
	Less than once a week (%)	24.1	20.2	
	Once or twice a week (%)	21.3	21.8	
	Three or more times a week (%)	26.9	22.9	
	Cannot breathe comfortably			
	None during the past two weeks (%)	90.7	86.5	
	Less than once a week (%)	3.7	8.9	
	Once or twice a week (%)	2.8	2.7	
	Three or more times a week (%)	2.8	1.9	
	Cough or snore loudly			
	None during the past two weeks (%)	75	79.8	
	Less than once a week (%)	9.3	11.6	
	Once or twice a week (%)	11.1	5.7	
	Three or more times a week (%)	4.6	3	
	• Feel too cold			
	None during the past two weeks (%)	65.7	57.7	
	Less than once a week (%)	25	26.4	
	Once or twice a week (%)	7.4	12.9	
	Three or more times a week (%)	1.9	3	
	• Feel too hot			
	None during the past two weeks (%)	44.4	38.8	

Less than once a week (%)	29.6	29.9
Once or twice a week (%)	18.5	24.8
Three or more times a week (%)	7.4	6.5
Had bad dreams		
None during the past two weeks (%)	67.6	57.1
Less than once a week (%)	24.1	25.9
Once or twice a week (%)	5.6	14
Three or more times a week (%)	2.8	3
Have pain		_
None during the past two weeks (%)	70.4	70.6
Less than once a week (%)	15.7	18.6
Once or twice a week (%)	9.3	7.5
Three or more times a week (%)	4.6	3.2
Other reasons that have caused issues		
No issue reported	88	93.3
Issue reported	12	6.7
 How often during the past two weeks have you had trouble sleeping because of this? 		
None during the past two weeks (%)	15.4	8
Less than once a week (%)	30.7	24
Once or twice a week (%)	23.1	28
Three or more times a week (%)	30.7	40
6. During the past two weeks, how would you rate your overall sleep quality	3 0.11	.,
Very good (%)	21.3	16.7
Fairly good (%)	69.4	69.8
Fairly bad (%)	8.3	11.9
Very bad (%)	0.9	1.6
7. During the past two weeks, how often have you taken medication to help you sleep		
None during the past two weeks	85.2	92.2
Less than once a week	10.2	3.8
Once or twice a week	2.8	2.7
Three or more times a week	1.9	1.3
8. During the past two weeks, how often have you had trouble staying awake while driving, eating meals, or engaging in social activities?		
None during the past two weeks (%)	67.6	57.7
Less than once a week (%)	20.4	21.3
Once or twice a week (%)	11.1	17.5
Three or more times a week (%)	0.9	3.5
9. During the past two weeks, how much has it been a problem for you to keep up enough enthusiasm to get things done?		
No problem at all (%)	44.4	34.8
Only a very slight problem (%)	43.5	46.6

A very big problem (%) 10. If you have a roommate or bed partner, ask him or her, how often in the past two weeks have you had: • Loud snoring None during the past two weeks (%) Chees than once a week (%) Three or more times a week (%) Eless than once a week (%) Three or more times a week (%) Less than once a week (%) Eless than once a week (%) Long pauses between breaths while asleep None during the past two weeks (%) Less than once a week (%) Less than once a week (%) Three or more times a week (%) Less than once a week (%) Three or more times a week (%) Elegs twitching or jerking while you sleep None during the past two weeks (%) Less than once a week (%) Three or more times a week (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Three or more times a week (%) Once or twice a week (%) Three or more times a week (%) Once or twice a week (%) Three or more times a week (%) Once or twice a week (%) None during the past two weeks (%) Three or more times a week (%) None during the past two weeks (%) Three or more times a week (%) Once or twice a week (%) Once or twice a week (%) None during the past two weeks (%) Three or more times a week (%) Once or twice a week (%) Three or more times a week (%) None during the past two weeks (%) Three or more times a week (%) Three or more times a w	Somewhat of a problem (%)	10.2	15.6
10. If you have a roommate or bed partner, ask him or her, how often in the past two weeks have you had: • Loud snoring None during the past two weeks (%) Less than once a week (%) Once or twice a week (%) • Long pauses between breaths while asleep None during the past two weeks (%) Less than once a week (%) • Long pauses between breaths while asleep None during the past two weeks (%) Less than once a week (%) Conce or twice a week (%) • Legs twitching or jerking while you sleep None during the past two weeks (%) Less than once a week (%) Conce or twice a week (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Conce or twice a week (%) Three or more times a week (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Three or more times a week (%) Once or twice a week (%) Three or more times a week (%) Three or more times a week (%) Once or twice a week (%) Three or more times a week (%) Once or twice a week (%) None during the past two weeks (%) Once or twice a week (%) None during the past two weeks (%) Once or twice a week (%) Once or twice a week (%) Once or twice a week (%) None during the past two weeks (%) Once or twice a week (%)	A very big problem (%)	1.9	3
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Three or more times a week (%) Episodes of disorientation or confusions during sleep None during the past two weeks (%) Less than once a week (%) Once or twice a week (%) Three or more times a week (%) Other restlessness while you sleep please describe None during the past two weeks (%) None during the past two weeks (%) Less than once a week (%) Once or twice a week (%) 11.8 10.6	Less than once a week (%)	21.6	21.2
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Three or more times a week (%) Other restlessness while you sleep please describe None during the past two weeks (%) Less than once a week (%) Once or twice a week (%) 11.8 2.4 2.4 4.1 5.1 6.5 6.5 6.5 10.6	Less than once a week (%)	13.7	10.6
 Other restlessness while you sleep please describe None during the past two weeks (%) Less than once a week (%) Once or twice a week (%) 11.8 10.6 	Once or twice a week (%)	5.9	9.4
None during the past two weeks (%) 76.5 62.4 Less than once a week (%) 9.8 16.5 Once or twice a week (%) 11.8 10.6	Three or more times a week (%)	0	2.4
Less than once a week (%) 9.8 16.5 Once or twice a week (%) 11.8 10.6	 Other restlessness while you sleep please describe 		
Once or twice a week (%) 11.8 10.6	None during the past two weeks (%)	76.5	62.4
	Less than once a week (%)	9.8	16.5
Three or more times a week (%) 2 10.6	Once or twice a week (%)	11.8	10.6
	Three or more times a week (%)	2	10.6

PSQI Items are scored and summed to form the seven components of the PSQI.

Supplementary Table B. Descriptive statistics (median and interquartile range) and percentage distribution of the Pittsburgh Sleep Quality Index (PSQI) items for team and individual sport athletes.

Pittsburgh Sleep Quality Index (PSQI) items for team and individual sport athletes.			
PSQI Items	Team sport $(n = 298)$	Individual sports (n = 181)	
1. During the past two weeks, when have you usually gone to bed at night? (hrs:min)	22:00 (22:00-22:30)	22:00 (21:30-22:30)	
2. During the past two weeks, how long has it usually taken you to fall asleep each night? (min)3. During the past two weeks, when have you usually gotten up in	20 (10 to 30)	15 (10 to 28)	
the morning? (hrs:min) 4. During the past two weeks, how many hours of actual sleep did	07:00 (06:30-07:30)	06:00 (05:00-07:00)	
you get at night? (hours) 5. During the past two weeks, how often have you had trouble	8 (7.5 to 9)	7.5 (7 to 8)	
sleeping because:			
 Cannot get to sleep within 30 minutes 			
None during the past two weeks (%)	24.2	35.9	
Less than once a week (%)	32.2	26	
Once or twice a week (%)	28.9	27.1	
Three or more times a week (%)	14.8	11	
 Wake up in the middle of the night or early morning 			
None during the past two weeks (%)	19.1	27.6	
Less than once a week (%)	24.2	22.7	
Once or twice a week (%)	29.2	30.9	
Three or more times a week (%)	27.5	18.8	
 Have to get up to use the bathroom 			
None during the past two weeks (%)	31.5	36.5	
Less than once a week (%)	22.8	18.8	
Once or twice a week (%)	22.5	20.4	
Three or more times a week (%)	23.2	24.9	
Cannot breathe comfortably			
None during the past two weeks (%)	87.2	87.8	
Less than once a week (%)	9.1	5.5	
Once or twice a week (%)	2.3	3.3	
Three or more times a week (%)	1.3	3.3	
 Cough or snore loudly 			
None during the past two weeks (%)	77.5	80.7	
Less than once a week (%)	12.1	9.4	
Once or twice a week (%)	7.4	6.1	
Three or more times a week (%)	3	3.9	
Feel too cold			
None during the past two weeks (%)	56.7	64.1	
Less than once a week (%)	27.5	23.8	
Once or twice a week (%)	13.4	8.8	
Three or more times a week (%)	2.3	3.3	
Feel too hot			

None during the past two weeks (%)	37.2	44.8
Less than once a week (%)	31.5	27.1
Once or twice a week (%)	25.8	19.3
Three or more times a week (%)	5.4	8.8
Had bad dreams		
None during the past two weeks (%)	56.4	64.6
Less than once a week (%)	25.5	25.4
Once or twice a week (%)	14.1	8.8
Three or more times a week (%)	4	1.1
Have pain		
None during the past two weeks (%)	69.1	72.9
Less than once a week (%)	18.5	17.1
Once or twice a week (%)	8.4	7.2
Three or more times a week (%)	4	2.8
 Other reasons that have caused issues 		
No issue reported	93.3	90.1
Issue reported	6.7	9.9
 How often during the past two weeks have you had trouble sleeping because of this? 		
None during the past two weeks (%)	15	5.6
Less than once a week (%)	26.7	33.3
Once or twice a week (%)	40	22.2
Three or more times a week (%)	46.7	38.8
6. During the past two weeks, how would you rate your overall sleep quality		
Very good (%)	14.1	23.8
Fairly good (%)	74.2	62.4
Fairly bad (%)	10.7	11.6
Very bad (%)	1	2.2
7. During the past two weeks, how often have you taken medication to help you sleep		
None during the past two weeks	89.9	91.7
Less than once a week	5.7	4.4
Once or twice a week	3.7	1.1
Three or more times a week	0.7	2.8
8. During the past two weeks, how often have you had trouble staying awake while driving, eating meals, or engaging in social activities?		
None during the past two weeks (%)	58.4	62.4
Less than once a week (%)	19.5	23.8
Once or twice a week (%)	19.1	11
Three or more times a week (%)	3	2.8
9. During the past two weeks, how much has it been a problem for you to keep up enough enthusiasm to get things done?	J	2.0

No problem at all (%)	33.9	42
Only a very slight problem (%)	48	42.5
Somewhat of a problem (%)	14.8	13.8
A very big problem (%)	3.4	1.7
10. If you have a roommate or bed partner, ask him or her, how often in the past two weeks have you had:		
 Loud snoring 		
None during the past two weeks (%)	73.5	75.5
	73.3 16.9	75.5 15.1
Less than once a week (%)		
Once or twice a week (%)	6	5.7
Three or more times a week (%)	3.6	3.8
• Long pauses between breaths while asleep	00.4	02.5
None during the past two weeks (%)	90.4	92.5
Less than once a week (%)	3.6	3.8
Once or twice a week (%)	4.8	19
Three or more times a week (%)	1.2	1.9
 Legs twitching or jerking while you sleep 		
None during the past two weeks (%)	33.7	34
Less than once a week (%)	22.9	18.9
Once or twice a week (%)	14.5	20.8
Three or more times a week (%)	28.9	26.4
 Episodes of disorientation or confusions during sleep 		
None during the past two weeks (%)	72.3	88.7
Less than once a week (%)	14.5	7.5
Once or twice a week (%)	10.8	3.8
Three or more times a week (%)	2.4	0
Other restlessness while you sleep please describe		
None during the past two weeks (%)	65.1	71.7
Less than once a week (%)	16.9	9.4
Once or twice a week (%)	10.8	11.3
Three or more times a week (%)	7.2	7.5

PSQI Items are scored and summed to form the seven components of the PSQI.