The effects of acute respiratory illness on exercise and sports performance outcomes in athletes – a systematic review by a subgroup of the IOC consensus group on "Acute respiratory illness in the athlete"

Supplementary Table S1: Pathological classification (main and subgroups) of acute respiratory illness (ARill) by diagnostic method*

Pathological classification		Methods to diagnose ARill	Description
Main group	Subgroup		
Undiagnosed acute respiratory illness (ARill)		 Self-reported symptoms of ARill only Self-reported symptoms combined with an algorithm at least partially validated for ARill Self-reported symptoms of an ARill reviewed by a physician, but without clinical or laboratory evaluation Clinical diagnosis of an ARill by a physician, based on history and clinical examination 	 General symptoms of an ARill where the pathology could not be attributed specifically to an infection ARill studies could include illnesses that are due to either infective or non-infective causes but were not specified in the study design
Acute respiratory infection (ARinf)	Suspected acute respiratory tract infection (ARinf)	 Self-reported symptoms combined with an algorithm at least partially validated for ARinf Self-reported symptoms of an ARinf reviewed by a physician, but without clinical or laboratory evaluation Clinical diagnosis of an ARinf by a physician, based on history and clinical examination 	 General symptoms and/or physical signs suggestive of an ARinf, but where the pathology of an infection was not confirmed The validated questionnaires that were used include the Wisconsin Upper Respiratory Symptom Survey (WURSS-21®)[1], the Jackson Cold Scale (JCS)[2], or other questionnaires in which the severity of the symptoms were scored to provide a quantitative assessment,[3, 4]
	Confirmed acute respiratory tract infection (ARinf)	 Clinical diagnosis of ARinf by a physician and confirmed by laboratory investigation to identify a specific pathogen as follows: polymerase chain reaction (PCR) testing on specimen(s), culture of an organism from specimen(s), or serology (e.g. rise in antibody titres) 	 In some cases, a diagnosis of an ARinf caused by a specific pathogen can also be regarded as confirmed when diagnostic clinical features with a high sensitivity and specificity are present in suspected cases In such case there is also a high pre-test probability of an ARinf (e.g., a history and typical rash in an athlete where there is a confirmed viral outbreak in a travelling team, or during an epidemic/pandemic)

*This table is replicated from a paper under review with the British Journal of Sports Medicine[5] from the same working group (IOC Consensus group on "Acute respiratory illness in the athlete").

References:

- 1. Barrett, B., et al., *The Wisconsin Upper Respiratory Symptom Survey (WURSS): a new research instrument for assessing the common cold.* J Fam Pract, 2002. **51**(3): p. 265.
- Jackson, G., H. Dowling, and R. Muldoon, *Acute respiratory diseases of viral etiology. VII. Present concepts of the common cold.* Am J Public Health Nations Health, 1962. 52(6): p. 940-45.
- Fricker, P., et al., *Influence of training loads on patterns of illness in elite distance runners*. Clin J Sports Med, 2005. 15(4): p. 246-252.
- 4. Matthews, A., et al., *A self-reported questionnaire for quantifying illness symptoms in elite athletes.* Open Access J Sports Med., 2010. 1: p. 15-22.

5. Snyders, C., et al., Acute respiratory illness and return to sport: A systematic review and meta-analysis by subgroup 5 of the IOC consensus group on "Acute respiratory illness in the athlete". Br J Sports Med, 2021. (under review).