


RESEARCH ARTICLE

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Comparative study between direct analysis in whole blood, oral fluid, and declaration of consumption for the prevalence of nonsteroidal anti-inflammatory drugs and acetaminophen in ultratrail runners

Mohammad Shafiq Mashal^{1,2} | Fabien Bevalot³ | Antony Citterio-Quentin¹ | Pierre Sallet⁴ | Qand Agha Nazari² | Jérôme Guillon^{1,5} | Christelle Machon^{1,6} ¹Biochemistry and Pharmaco-toxicology Laboratory, Lyon Sud Hospital, University Hospital of Lyon, Lyon, France²Pharmacology Department, Pharmacy Faculty, Kabul University, Kabul, Afghanistan³LAT LUMINOX Laboratory, Lyon, France⁴Athlete For Transparency, Lyon, France⁵Toxicology Laboratory, ISP8 Pharmacy Faculty of Lyon, University of Lyon, Lyon, France⁶Analytical Chemistry Laboratory, ISP8 Pharmacy Faculty of Lyon, University of Lyon, Lyon, France**Correspondence**Christelle Machon, Biochemistry and Pharmaco-toxicology Laboratory, Lyon Sud Hospital, University Hospital of Lyon, Pierre-Bérnès, Lyon, France.
Email: christelle.machon@univ-lyon1.fr**Funding information**

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Abstract

Ultratrail running is a sport with growing number of adherents. To complete ultratrail despite physical issues such as joint and muscle pain, many runners use non-steroidal anti-inflammatory drugs (NSAIDs) and acetaminophen. Studies asking participants about their consumption of drugs during ultratrail revealed a prevalence of NSAIDs and acetaminophen up to 70% and 25%, respectively. The aims of the present study were to determine the prevalence of NSAIDs and acetaminophen for 81 runners during the 2021 Ultratrail du Mont Blanc[®] (UTMB[®]) using direct analysis of dried blood spots (DBS) and oral fluid (OF) and to compare results with the declaration of consumption by runners; this is to identify the most relevant method to study the prevalence of drugs. Our results show a prevalence of NSAIDs of 46.6% using DBS, 18.5% using OF, and 13.8% based on a questionnaire. Prevalence of acetaminophen were 30.1%, 30.9%, and 22.5% using DBS, OF, and questionnaire, respectively. From this study, we conclude that the analysis of drugs directly in DBS is the most relevant tool to determine the prevalence in ultratrail events.

KEYWORDS

acetaminophen, dried blood spot, nonsteroidal anti-inflammatory drugs, oral fluid, ultratrail

1 | INTRODUCTION

Running is a sport with a continually growing number of adherents. Moreover, distances longer than marathon, that is, long distance, ultratrail, trail running, become more and more popular,¹ and many events in the world propose race distances over 100 km. To complete ultratrails, runners frequently exceed their physical and mental

limits. Physical issues mostly reported by ultratrail runners are pain, nausea, and/or vomiting. Several studies indicated that to prevent muscle and osteo-articular pains, many ultratrail runners use NSAIDs and acetaminophen before, during, and/or after the race.^{2,3} Indeed, in many ultratrail events, prevalence of the use of NSAIDs, estimated using a questionnaire completed by the runners, were higher than 50%.^{2–4} Ibuprofen is the most common NSAID used and in

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