

1 **EDITORIAL**

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3 **Title: Survey Studies: Connecting Sport Science to Coaching Practice**

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12 Bridging the gap between science and practice – this is the main objective (or at
13 least it should be) for of sport scientists. Instead of adopting minimalistic perspectives or
14 addressing issues entirely disconnected from real-world training scenarios, where
15 available training time is highly limited, researchers involved in sport science need to be
16 aware of the actual challenges faced by coaches in their daily routines. Long journeys to
17 compete, congested schedules, and progressive increases in physical demands during
18 training and competition, especially in speed and power activities, are some of the most
19 critical issues that coaches frequently handle in elite sports.¹ Of course, studies in sport
20 science do not always take these constraints and barriers into account, which is
21 understandable given the comprehensive nature and complexity of the field. Nevertheless,
22 research focused on elite sports should not be conducted without considering these
23 aspects. A recent survey involving 106 coaches from various sports and countries
24 investigating issues pertaining to training processes highlighted this point: “If training
25 research continues as present, the field runs the risk of not only becoming detached, but
26 increasingly irrelevant to those it is trying to help.”²

27 This is the moment that survey studies become essential, as they provide a unique
28 opportunity to better understand the real difficulties faced by coaches and to address these
29 issues in future interventions. Surveys are also highly relevant in terms of practical
30 applications. Specifically, and for example, these studies enable us to identify and
31 examine the training practices regularly utilized by coaches and promoting the adoption
32 of more effective evidence-based approaches, aligned with the current literature on some
33 specific topics (e.g., resistance or speed training practices).^{3,4} It is no coincidence that
34 surveys are among the most widely read studies and have recently gained increased

35 acceptance in prestigious sport science journals. Despite their apparent simplicity, surveys
36 can be performed using high-quality methodological approaches, pre-validated
37 questionnaires, and innovative data analysis procedures; thus, enhancing consistency and
38 accuracy in data processing. These options are readily available to researchers, covering
39 a variety of factors related to coaching practices.

40 For example, a recent survey published in IJSPP,³ aimed at understanding the
41 beliefs and strategies of football practitioners who implement high-speed and sprint
42 training sessions in their programs, used a mixed statistical approach to analyze the data,
43 combining descriptive statistics, mixed-effects models, and multinomial logistic
44 regression models. Beyond its innovative characteristics, this complex statistical
45 modeling enables the independent analysis of distinct “domains”, described in the study
46 as: “Who, Why, When, What, and How”. More importantly, this method facilitates the
47 exploration of questions that are highly relevant from an applied standpoint, such as the
48 lack of consensus on the conceptual constructs defining high-speed and sprint-running
49 exposure, as well as the methodological procedures employed by practitioners to monitor
50 these metrics during match-play. Furthermore, this sort of detailed analysis reveals that
51 there is a broad spectrum of training methods considered effective by practitioners for
52 developing these physical qualities. Interestingly, some of these methods (e.g., game-
53 based training) are largely regarded as at least, “moderately effective” for enhancing
54 sprinting abilities, which partially diverges from the current literature on the topic.⁵
55 Although the authors acknowledged the inherent limitations of their study (e.g., the use
56 of a convenience sample and the exclusion of perceptions from other stakeholders, such
57 as the players themselves)³ there is no doubt that their findings can provide a solid
58 foundation for guiding coaches and informing future interventions involving football and
59 high-intensity running exposure.

60 Surveys focusing on highly specialized samples (e.g., Olympic coaches) are also
61 generally well-accepted within the field.⁴ This type of study can, among other benefits,
62 provide coaches with valuable insights into specific topics applicable across various
63 sports, in which certain physical abilities, such as speed and power, play a key role (e.g.,
64 team-sports).⁴ Additionally, based on these studies, researchers can design more realistic
65 projects, capable of addressing the actual priorities of elite athletes. Notably, in a survey
66 conducted with Olympic track and field coaches, the authors emphasized that identifying
67 the practices commonly employed by leading sprint coaches - who work with the fastest
68 men in the world - may assist practitioners from various disciplines in developing more

69 effective neuromuscular training programs.⁶ Once again, in these studies, challenges
70 related to sample size are expected, given the exceptional characteristics of the sample
71 (i.e., Olympians). However, the knowledge gained from such studies can offer unique
72 perspectives to the field, that would otherwise be difficult, if not impossible, to obtain.
73 Therefore, journals and editors should recognize the potential interest and the confidence
74 that these studies could inspire.

75 Although this is not necessarily a call for surveys, it serves as an encouraging
76 message for researchers interested in pursuing this type of research. As long as they are
77 well-designed and well-conducted, we are prepared to welcome these submissions to
78 IJSP, thereby contributing to a deeper understanding of the challenges faced in elite
79 sports.

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81 **References**

- 82 1. Freitas TT, Pereira LA, Reis VP, Fernandes V, Alcaraz PE, Azevedo P, Loturco I.
83 Effects of a Congested Fixture Period on Speed and Power Performance of Elite
84 Young Soccer Players. *Int J Sports Physiol Perform.* 2021;16:1120-6.
- 85 2. Anyadike-Danes K, Donath L, Kiely J. Coaches' Perceptions of Factors Driving
86 Training Adaptation: An International Survey. *Sports Med.* 2023;53:2505-12.
- 87 3. Dello Iacono A, Beato M, Unnithan VB, Shushan T. Programming High-Speed
88 and Sprint Running Exposure in Football: Beliefs and Practices of More Than 100
89 Practitioners Worldwide. *Int J Sports Physiol Perform.* 2023;18:742-57.
- 90 4. Loturco I, Zabaloy S, Pereira LA, Moura T, Mercer VP, Victor F, Zajac A,
91 Matusinski A, Freitas TT, Bishop C. Resistance Training Practices of Brazilian
92 Olympic Sprint and Jump Coaches: Toward a Deeper Understanding of Their
93 Choices and Insights (Part III). *J Hum Kinet.* 2024;90:183-214.
- 94 5. Dello Iacono A, McLaren SJ, Macpherson TW, Beato M, Weston M, Unnithan
95 VB, Shushan T. Quantifying Exposure and Intra-Individual Reliability of High-
96 Speed and Sprint Running During Sided-Games Training in Soccer Players: A
97 Systematic Review and Meta-analysis. *Sports Med.* 2023;53:371-413.
- 98 6. Loturco I, Haugen T, Freitas TT, Bishop C, Moura T, Mercer VP, Alcaraz PE,
99 Pereira LA, Weldon A. Strength and Conditioning Practices of Brazilian Olympic
100 Sprint and Jump Coaches. *J Hum Kinet.* 2023;86:175-94.