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Keywords:Immersion pulmonary edema; Female triathlon competitors; Hidden Risk; Water immersion; Respiratory distress; Prevention

## Introduction

Triathlons, with their unique blend of swimming, cycling, and running, have become increasingly popular among athletes of all levels. For many women, participating in triathlons represents not only a personal challenge but also a celebration of strength and endurance. However, beneath the surface of these grueling competitions lurks a hidden risk that has been a ecting female triathletes: Immersion Pulmonary Edema (IPED).

Triathlon, an exhilarating multisport event that encompasses swimming, cycling, and running, has gained immense popularity worldwide. Female athletes, in particular, have embraced triathlons as a testament to their physical prowess, resilience, and determination. However, beneath the surface of this dynamic sport lies a concealed

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It's essential to prioritize safety over competition and ensure that ioritizing safety, female triathletes can continue to excel in their sport participants are well-informed about the risks they face. while minimizing the hidden risks that lurk beneath the surface.

## Discussion

IPE is a serious environmental illness, likely triggered in triathletes

by cold water immersion and exertion and may be exacerbated by other IPED is a rare yet potentially life-threatening condition that hasactors including gender, age, wetsuit tightness, and hydration status. been observed in various water-related activities, such as scuba divinging patients experience multiple episodes of IPE, making previous and swimming. e underlying mechanism involves a combination of history a major predisposing factor. IPE occurs in otherwise healthy factors, including water pressure changes, cold water exposure, andles and females immersed in fresh or salt water. IPE generally occur strenuous physical activity, which can lead to increased pressure in the colder water but has been described in warm water as well. Symptoms pulmonary circulation and subsequent leakage of uid into the lunggenerally resolve quickly when patients are removed from water. [8].

## References

Addressing the hidden risk of IPED in female triathlon competitors, Aydin I, Demirkir C, Colak S, Colakoglu G (2017) 8 W L O L ] D W L R Q R I E D L necessitates a collective e ort from athletes, coaches, and eventadditive in plywood manufacturing. Eur J Wood Prod 75:63-69 organizers. It is essential to prioritize safety over competition, Rajeshkumar G, Seshadri SA, Devnani GL, Sanjay MR (2021) Environment ensuring that participants are well-informed about the risks they face. IÚLHQGOV UHQHZDEOH DQG VXVWDLQDEOH SROV O Emphasizing the importance of recognizing and responding to IPED reinforced composites-A comprehensive review. J Clean Prod 310:127483. symptoms can potentially save lives and enhance the overall well-being Lee SH, Lum WC, Boon JG (2022) Particleboard from agricultural biomass and of female triathletes [9]. recycled wood waste: A review. J Mater Res Technol 20:4630-4658. França WT, Barros MV, Salvador R (2021) Integrating life cycle assessment For athletes, it is important to be aware of IPE risk factors and how and life cycle cost: A review of environmental-economic studies. Int J Life Cycle to manage them. ey must also be able to recognize the symptoms Assess 26:244-274. of IPE before becoming incapacitated. Currently, no treatment has been proven to prevent the onset of IPE. Anecdotally, Nifedipine has Couret L, Irle M, Belloncle C (2017) Extraction and characterization of cellulose

been used as a prophylactic with some success in SCUBA divers. e  $\frac{210}{2137}$ . QDQRFU\VWDOV IURP SRVW FRQVXPHU ZRRG ¿EHUB long-term implications of repeated IPE incidents is unknown. All Haag AP, Maier RM, Combie J (2004) Bacterially derived biopolymers as wood three triathletes detailed in this report have continued to train and compete successfully, however further study is needed before this can

be recommended. Because the possibility of reoccurrence is high, the Soubam T, Gupta A, Sharma S (2022) Mechanical property study of plywood bonded with dimethylol dihydroxy ethylene urea crosslinked rice starch-natural rubber latex-based adhesive. Mater Today Proc.

## Conclusion

risk of drowning still exists [10].

8. Hammiche D, Boukerrou A, Azzeddine B (2019) Characterization of polylactic acid green composites and its biodegradation in a bacterial environment. Int J Female triathletes are breaking barriers and pushing the limits of Polym Anal Charact 24:236-244.

and bamboo culm particles. Constr Build Mater 262:120501.

physical endurance, but it's crucial to be aware of the hidden risks that 3 GILN 0 - DQLV]HZVND 5 RAIR matrix Mano allowing and the hidden risks that 3 GILN 0 - DQLV]HZVND 5 RAIR matrix can accompany such dedication. Immersion Pulmonary Edema may materials in particleboard production: A review. Ind Crops Prod 174:114162. be an uncommon condition, but its potential consequences are severed Brito FMS, Bortoletto JG, Paes JB, Belini UL, Tomazello FM (2020) By understanding the risk factors, recognizing the symptoms, and Technological characterization of particleboards made with sugarcane bagasse