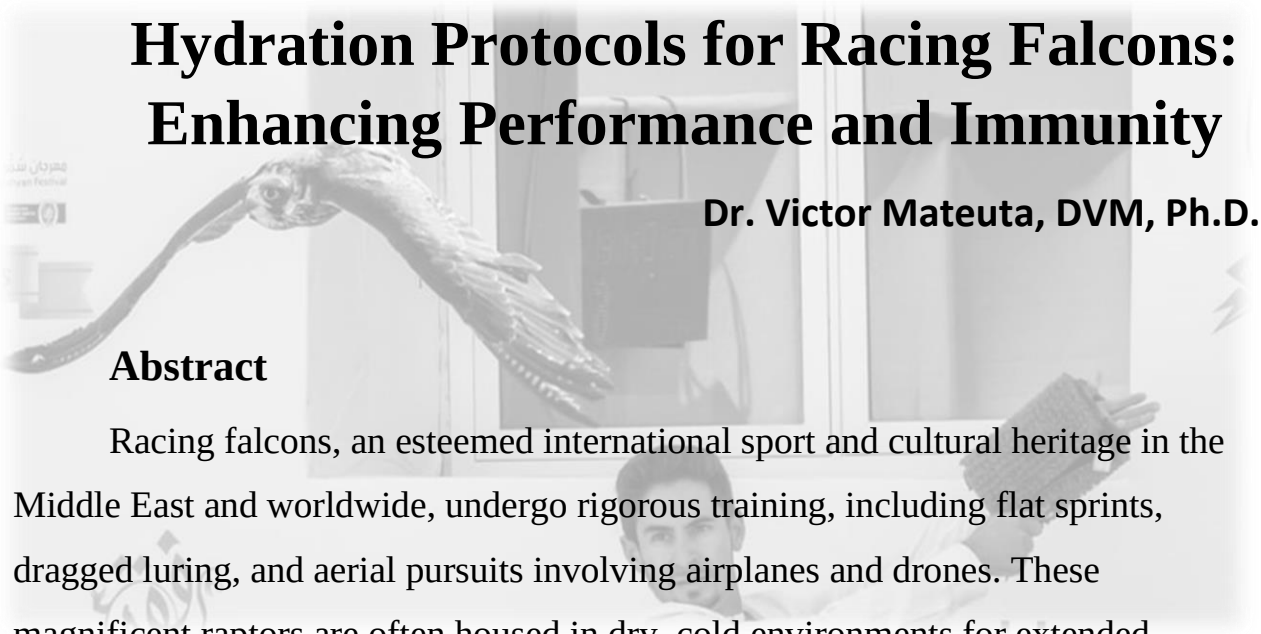


Hydration Protocols for Racing Falcons: Enhancing Performance and Immunity

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Abstract

Racing falcons, an esteemed international sport and cultural heritage in the Middle East and worldwide, undergo rigorous training, including flat sprints, dragged luring, and aerial pursuits involving airplanes and drones. These magnificent raptors are often housed in dry, cold environments for extended periods, exacerbating dehydration. To compound this challenge, falcons exhibit limited natural water consumption, further intensifying dehydration when subjected to their specialized diet of blood-drained pigeon and quail breasts, leading to acidification and compromised health.

This study aims to address the multifaceted issue of dehydration in racing falcons, particularly during the competitive season and pre-race preparations. Various hydration protocols, encompassing oral fluid therapy, intravenous, and subcutaneous methods, were systematically assessed. Additionally, herbal products were introduced via oral administration to gauge their impact on immune enhancement in both healthy and immunocompromised falcons.

Through meticulous analysis and comparison of results, this research contributes to the establishment of optimal hydration protocols tailored to the unique needs of racing falcons. These findings not only promise to enhance performance but also bolster immunity, thereby safeguarding these remarkable birds from bacterial and fungal infections, reducing the risk of septicemia, and preserving the vitality of this cherished sporting tradition.