



Does Camel's Milk contain specific Nanoparticles for the treatment of Autism in children? Review Literature

Hana kadum ¹ * , Shu'aibu Isa ², Jawad K. Muraih ³, Hussein Alboory⁴,
Karima Akool Al Salihi ⁵ 

¹ College of Science, Al-Muthanna University, Samawah, Al-Muthanna Province, Iraq /

 <https://orcid.org/0000-0002-5394-3294>

²Department of Microbiology, Gombe State University, Gombe State, Nigeria

³ Department of Chemistry, Al-Muthanna University, Samawah, Al Muthanna Province, Iraq.

⁴ Faculty of Agriculture, Al-Qasim Green University, Iraq.

⁵ College of Veterinary Medicine, Al Muthanna University, Iraq/ Email address: kama-akool8@mu.edu.iq

 <https://orcid.org/0000-0002-5698-2678>

ARTICLE INFO

Received: 07.09.2022

Revised: 15.10. 2022

Accepted: 24.10.2022

Publish online: 06.11. 2022

*Corresponding author:

Hana kadum: Email address:
hanakadum@mu.edu.iq

Abstract

Many research findings investigated that camel's milk is more similar to human milk than the milk of other animal species. It is easily digested by Lactose-intolerant individuals. Camel's milk is rich in minerals like Iron and Vitamins particularly,

Vitamins B and C. Moreover, the lactoferrin in the milk of camel has antibacterial, antiviral, and anti-tumor properties. Additionally, camel's milk contains disease-fighting immunoglobulins that are small in size, allowing penetration of antigens and boosting the effectiveness of the immune system. This review of literature intends to focus on the role of camel's milk in the treatment of autism syndrome in children. Scholarly articles as well as search engines were such as Google Scholar, Medline, and EMBASE were consulted to explore the relationship the camel's milk has with autism. The findings of the selected research articles approved that camel's milk could play an important role in decreasing oxidative stress in patients with autism. It can alter antioxidant enzymes and nonenzymatic antioxidant molecules levels that lead to recovery of the autistic behavior, as demonstrated by the improved Childhood Autism Rating Scale (CARS). In conclusion, the study approved that camel's milk can decrease autism syndrome. The authors recommend doing more clinical and analytic research on the therapeutic properties of camel's milk in the treatment of children suffering from autism.

To Cite this article: Hana kadum; Shu'aibu Isa; Jawad K. Muraih; Hussein Alboory; Karima Akool Al Salihi. (2022). MRVSA. 11 (2): 20-30. **Doi:** <http://dx.doi.org/10.22428/mrvsa-2022-00112-03>

Keywords: Camels Milk, Nanoparticles, Autism, Antioxidant.

