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⁵⁷Fe Mossbauer spectroscopy reveals presence of toxic iron phases in traditional iron rich medicines

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Chemical phases of iron in large number of the Ayurvedic bhasma are investigated through Mossbauer Spectroscopy. Iron is found in oxide form as Fe₂O₃ or Fe₃O₄ or both in all the bhasma studied here irrespective of their nature their mode of preparation. The size distribution of iron particles is different for different bhasma. It is known that iron oxide is toxic to human body and it is also not easily absorbed in it. Mossbauer studies point to iron oxide being present in these bhasma and thus not safe for human consumption. However we suggest that clinical evaluation of these drugs by experts is urgently needed to find out if these drugs are safe or not?

Biography

Bhavna Joshi has completed her PhD at the age of 25 years from Jai Narain Vyas University, Jodhpur, and Rajasthan, India. She did her PhD (Physics) in Mossbauer Spectroscopy on Traditional Medicines. She has published research papers in reputed journals. She used phase sensitive technique as major research tool for the first time. Now she is pursuing post doctorate in at department of physics, Jai Narain Vyas, University, Jodhpur, India.

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