Effect of *Pranayama* (voluntary regulated breathing) and *Yogasana* (yoga postures) on lipid profile in normal healthy junior footballers

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There are many styles of *Pranayama* (Voluntary Regulated Breathing) and *Yogasana* (Yoga Postures) that range from very dynamic, active movements that go from one posture to another (and result in a thorough aerobic workout) to more slow-paced practices that hold postures for several minutes and form an intense strength training and balanced workout. Twenty male junior footballers younger than 15 years of age, belonging to the Mohun Bagan Athletic Club, Kolkata, were selected for the study at Haridwar. They had to play in a Football Cup organized in UK and they were here to practice yoga sequences taught by Swami Ramdevji.\(^{[1–3]}\) They were of age 14.65±0.58 years and none of them had a history of lipid metabolism disorders. All the footballers were healthy with no history of smoking or alcohol consumption. The scope and objectives of the present study were explained to the subjects and their written consent was obtained for participation in the study. The institutional ethical committee had approved the study protocol and design. The subjects were asked to follow their routine diet and exercise pattern during the period of study. None of the subjects were exposed to yogic practices before this yoga training session.

There was a significant reduction in the levels of serum cholesterol, Low-density lipoprotein (LDL) cholesterol, serum triglycerides, and very-low-density lipoprotein (VLDL)-cholesterol at the end of the yoga session. The results indicated that the fasting blood sugar (FBS) level was positively elevated in junior footballers. This demonstrated that *Pranayama* and *Yogasana* were helpful in regulating sugar level also [**Table 1 and Figure 1**].

**Table 1**  
Lipid profile in subjects before and after yoga practices

![Table 1](image1.png)

**Figure 1**  
Change in lipid profile after yoga session

![Figure 1](image2.png)

The present study demonstrates the efficacy of SRY (Swami Ramdev Yoga)- *Pranayama* and *Yogasana* sequences on blood lipid profiles in normal healthy footballers. *Pranayama* and
Yogasana can be used as supportive therapy in patients with lipid disorders, heart diseases, hypoglycemia, and so on. There is a need for conducting the experiments on a larger number of participants, to explore the results and mode of action.

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