Indian Research Society for the Study of Diabetes in India (RSSDI) recommendations for diabetes management: A psychosocial commentary

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The Research Society for the Study of Diabetes in India (RSSDI) recently released comprehensive clinical practice recommendations for the management of type 2 diabetes mellitus (T2DM).^[1] The published document is a “derived guideline,” developed from the International Diabetes Federation (IDF) Global Guideline for type 2 Diabetes.^[2] The authors of the RSSDI recommendations have fulfilled a major felt need for the Indian diabetes care community by providing practical and pragmatic guidance that is relevant for and suited to the Indian content.

In this editorial, we focus on the aspects of diabetes care specific to India, covered in the RSSDI document, and discuss how maximal utility can be gained from the coverage of these topics.

The Indian recommendations are structured into 20 sections, including the preface and annexure, while most of the contents are similar to the recommended care and limited care versions of the IDF guidelines, some sections merit special attention because of their novel suggestions. These include prediabetes, diet therapy, lifestyle management, targets of glucose control, footcare, fasting, and diabetes.

PREDIABETES

RSSDI has included detailed coverage of prediabetes in its diabetes management recommendations. This has

been done keeping in mind the high prevalence of this condition in India.^[3]

The diagnostic cutoffs and treatment strategies are similar to internationally accepted practices. Screening should be linked to health care systems or national programs that have the capacity to provide lifestyle advice. Pharmacotherapy, including metformin, acarbose, or voglibose is recommended in persons with prediabetes who do not respond to lifestyle modification after 6 months.^[4] This aggressive, but much-needed stance by the Indian recommendation writers must be appreciated.

LIFESTYLE MANAGEMENT: YOGA

Yoga is included as a separate section in the discussion on lifestyle management. Yoga is described as a mind – body therapy, an old, traditional, Indian psychological; physical; and spiritual exercise regimen, and as a holistic philosophy. This includes not only physical exercises, but lifestyle and behavioral changes as well. The impact of yoga on the endocrine system, the autonomous nervous system, glucose control, and anthropometric measurements is well-documented.^[5]

The recommendations appreciate the beneficial effect of yogic practices on the control of glycemia, blood pressure,

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dyslipidemia, insulin resistance/hyperinsulinemia, and stress. Yoga practices are suggested for 30 min/day, in combination with other forms of physical activity, and for 45-60 min/day, if performed without other physical exercise.

ALTERNATIVE THERAPIES

The RSSDI recommendations are categorical in stating that “clinicians trained in modern system of medicine are advised not to prescribe alternate therapies to treat diabetes.” The discussion acknowledges the use of Ayurveda, Yoga, Unani, Siddha, and Homeopathy (AYUSH) and Naturopathy in diabetes care, and the various plant and mineral products used in diabetes management. It allows the use of “yoga, pranayama, meditations, and relaxation techniques” in vogue in India as supplements to nonpharmacological therapies.

It is important to note the clear-cut recommendation by the RSSDI, and limit prescription to modern drugs that are backed by evidence.

DIET THERAPY

The traditional Indian diet is quite different from those of other nations. The RSSDI document highlights this by specifying guidance that is important for Indians. The cardioprotective diet that is prescribed by the RSSDI is based upon Indian preferences. *Dal* and *roti* and rice and curry are suggested as Indian examples of mixed meals, with low glycemic index. Brown rice is preferred to polished white rice.

TARGETS OF GLUCOSE CONTROL

The Indian recommendations follow global practice in promoting a glycated hemoglobin (HbA1C) target of 7.0% in diabetes management.^[2] For fasting and postprandial glucose, however, specific targets of 115 mg% and 160 mg% have been mentioned. It is further clarified that measurement of plasma glucose levels alone (without HbA1c assessment) may have to suffice in very limited resource settings. However, the rationale for choosing these cutoffs is not clear.

FOOTCARE

RSSDI appreciates the common practice of walking barefoot as a significant contributor of diabetic foot complications in India.^[6] The recommendation panel emphasizes the need to educate patients regarding the avoidance of walking barefoot and the use of appropriate therapeutic footwear. Economical offloading devices such as the Mandakini offloading device and Samadhan system have been mentioned.

FASTING AND DIABETES

The section on management of diabetes during fasting does not distinguish between recommended care and limited care. It describes the various types of fasts (complete, partial) and lists factors related to fasting, glucose-lowering therapy, and individual patient characteristics that influence diabetes management during fasting.^[7] The recommendation enumerates clinical situations in which fasting should be avoided or discouraged, and suggests simple measures to ensure patient safety. The coverage of fasts from all major Indian religions, including Hinduism, Islam, and Jainism is a welcome feature of the document.

SUMMARY

This editorial touches upon some of the psychosocial and country-specific biomedical aspects of diabetes care covered in the RSSDI clinical practice recommendations for the management of T2DM. Such coverage adds value to existing global recommendations, and offers useful guidance to diabetes care providers working in unique sociocultural environments. It additionally serves as an example for other countries and regions to incorporate topic-specificity to their diabetes ecology. Ongoing focus on good quality indigenous research, designed to find objective evidence related to these unique facets of diabetology, will help enhance the importance and reliability of future editions of this recommendation.

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