

Keywords: *Diabetes mellitus, insulin resistance, hyperglycemia, metabolic syndrome, cardiovascular disease*

Introduction

Diabetes mellitus is a chronic metabolic disorder characterized by hyperglycemia resulting from defects in insulin secretion, insulin action, or both. It is a leading cause of morbidity and mortality worldwide, with a rising prevalence in all age groups and ethnicities. The pathogenesis of diabetes is complex and multifactorial, involving genetic, environmental, and lifestyle factors. The most common form, type 2 diabetes, is strongly associated with obesity, sedentary lifestyle, and diet. Insulin resistance, a condition where the body's cells do not respond properly to insulin, is a key feature of type 2 diabetes and is often accompanied by other components of the metabolic syndrome, such as hypertension, dyslipidemia, and abdominal obesity. The long-term complications of diabetes, including cardiovascular disease, kidney disease, and neuropathy, are a significant burden on individuals and healthcare systems. This review discusses the pathophysiology, clinical manifestations, and management of diabetes, with a focus on the role of insulin resistance and the metabolic syndrome.

multicentre study of Shigella diarrhoea in six Asian countries: Disease burden, clinical manifestations, and microbiology. PLoS Med 3: e353.

Challenges and future directions

Germani Y, Sansonetti PJ (2006) The genus Shigella. The prokaryotes In: Proteobacteria: Gamma Subclass Berlin: Springer 6: 99-122.

Conclusion

Aggarwal P, Uppal B, Ghosh R, Krishna Prakash S, Chakravarti A, et al. (2016) Multi drug resistance and extended spectrum beta lactamases in clinical isolates of Shigella: a study from New Delhi, India. Travel Med Infect Dis 14: 407-413.

Conflict of Interest

References

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