




Differential expression of *insulin receptor substrate-1(IRS-1)* in visceral and subcutaneous adipose depots of morbidly obese subjects undergoing bariatric surgery in a tertiary care center in north India; SNP analysis and correlation with metabolic profile

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Highlights

- Low expression of Insulin receptor substrate-1(*IRS-1*) in visceral adipose tissue (VAT) in morbidly obese individuals.
- Genotyping of *IRS-1*Gly972Arg reported no association with any of metabolic parameters.
- Identified two new genetic variations in *IRS-1* on sequencing.

Abstract

Background

/aim: Abdominal obesity and associated metabolic consequences are a burgeoning problem in Asian Indians and studying their genetic predisposition is important. This study is aimed at assessing variations in Insulin receptor substrate-1 (*IRS-1*), its expression at regional fat-depots (visceral and subcutaneous) in morbidly obese patients, and correlation with genotype-phenotype traits.

Methods