

Comparison of group B streptococcal colonization in the pregnant diabetic and non-diabetic women

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[View references \(^ ^\)](#)

Abstract

To Compare colonization of group B streptococcus (GBS) in diabetic and non-diabetic pregnant women. In this prospective study 90 pregnant women with diabetes mellitus (both pregestational and gestational) and 47 pregnant women without diabetes between 33 and 37 weeks' gestation were evaluated. Three samples for Group B streptococcal culture detection were obtained from each subject in the following order: perineal sample, vaginal sample, and an anorectal sample. All had singleton gestations, negative tests for human immunodeficiency virus, and intact membranes at enrollment. Pearson chi-square and Fisher's Exact test were used when appropriate. Most common site of GBS colonization in all women was vagina (11.4%). Colonization of group B streptococcus in control group included vagina (7%) perineum (4.3%) and rectum (4.3%) and in diabetic group included vagina (16%) perineum (16%) and rectum (16%). Although comparison was not significant ($P=0.104$). The prevalence of group B streptococcus colonization in gestational diabetes was 20% and higher than pregestational diabetic women. Among women with pregestational diabetes, the prevalence of group B streptococcus colonization was 10% in non-insulin dependent diabetic women and 10% in insulin dependent diabetic women ($P>0.05$). Comparison between two groups showed high rectal colonization in diabetic group and difference was significant ($P=0.027$). Pregnant diabetic patients have higher carriage rates of group B streptococcus (GBS) in rectum than non-diabetic pregnant women and diabetes is a risk factor for group B streptococcus colonization during pregnancy. © 2009 Tehran University of Medical Sciences. All rights reserved.

Reaxys Database Information

Author keywords

Diabetic pregnant women; Group b streptococcus; Non-diabetic pregnant women; Perineal colonization; Rectal colonization; Vaginal colonization

Indexed Keywords

EMTREE medical terms: adult; anus; article; bacterial colonization; bacterium culture; clinical article; controlled study; female; human; insulin dependence; non insulin dependent diabetes mellitus; perineum; pregnancy; pregnancy diabetes mellitus; rectum; risk factor; Streptococcus agalactiae; vagina

ISSN: 00446620 CODEN: AMEIAS Source Type: Journal Original language: English Document Type: Article