

Original Research Paper

Gynaecology

KAP STUDY OF MOTHERS WITH DIABETES IN PREGNANCY

Shagufta Yousuf*	SeniorresidentOBGAIMSRBathinda, Punjab*CorrespondingAuthor
Aastha Garg	Junior resident OBG AIMSR Bathinda, Punjab
Sadhna Sharma	Professor OBG AIMSR Bathinda, Punjab

ABSTRACT Background: In developing counties diabetes during pregnancy is a major cause of maternal morbidity and mortality. Knowledge, attitude and perception of pregnant women pertaining to diabetes during pregnancy have a significant impact on overall pregnancy outcome. Material and Methods: Two hundred diabetic mothers were enrolled for the study and were assessed for their knowledge, perception and attitude pertaining to diabetes in pregnancy and findings were recorded in a predesigned proforma. Observations and Results: Out of 200 mothers, only 24 (12%) of the mothers were aware of the normal level of blood glucose levels during pregnancy and 10 (5%) were aware about the causes of high blood glucose levels during pregnancy. Only 16% of the mothers were aware about the adverse effects of diabetes on mother's health and over all less than 50% were aware of the adverse pregnancy outcome. Forty five (45%) of the women were aware of the treatment options available. Seventy three percent of the mothers were attending antenatal clinics regularly and as money as 53% were on some form of medical treatment including dietary restrictions, oral metformin or insulin therapy. Despite being diabetic nearly half of the women (47%) were not on any form of treatment. Despite being diabetic as many as 1/3rd of the mothers were not taking any anti-diabetic medications **Conclusions:** Pregnant women in our setup do not have sufficient knowledge pertaining to diabetes during pregnancy. Their perception of complication of diabetes in pregnancy is also poor and attitude towards preventing and treating diabetes poor too.

KEYWORDS: diabetes, pregnancy, KAP

Introduction:

Diabetes is a common chronic illness in almost all countries1. India has the largest diabetes population in the world with an estimated 8.5 million people living with diabetes2. Diabetes is associated with an increased risk of pre-eclampsia for mothers in the antepartum period and a higher risk for fetal and neonatal complications like macrosomia, hypoglycemia, jaundice, respiratory distress syndrome, polycythemia, and hypocalcemia in infants.3 After delivery the mother is at a higher risk for Type 2 DM, and the child of a woman with GDM is at a higher risk for metabolic syndrome.3 Knowledge, attitude and perception of diabetic pregnant women pertaing to diabetes in pregnancy is expected to have a huge impact on maternal, perinataland neonatal mortality and morbidity.

Aim: The aim of this study was to assess the knowledge, attitude, and practices of antenatal women pertaining to diabetes in pregnancy attending antenatal clinic at AIMSR Bathinda, Punjab

Material and Methods: The study was carried at AIMSR Bathinda Punjab which is a tertiary care centre for women in Punjab, India. Study was commenced after taking informed consent from the pregnant women. Study was conducted between March 2017 and Oct. 2017. All those women who were pregnant and were diabetic (GDM, Type 1 or type2) were enrolled in the study. Their knowledge, attitude, and practices pertaining to diabetes in pregnancy were recorded in a predesigned proforma.

Observations and results

Demographic characteristic of antenatal mothers are depicted in table 1. Knowledge, attitude and perception of women pertaining to diabetes in pregnancy are depicted in table 2.

Table 1 Demographic characteristic of antenatal mothers (n=200)

Demographic	No. of subjects/
characteristic	%age
Āge (years)	

	19 - 27	98 (49)
	-	
	28-35	66 (33)
	>35	36 (18)
Residence		
	Rural	142 (71)
	Urban	58 (29)
Family type		
	Nuclear	48 (24)
	Joint	152 (76)
Educational status		
	Illiterate	44 (22)
	< 8th standard	44 (22)
	8th to 10th standard	32 (16)
	undergraduate	34 (17)
	Graduate and above	26 (13)
Socioeconomic status		
	Lower	86 (43)
	Middle class	94 (47)
	Upper class	20 (10)

Discussion: We enrolled a total of 200 pregnant women with diabetes (blood glucose levels above normal) in our study. Majority of our study population was in the age group of 19 to 27 years (49%) followed by 28 to 35 years (33). One hundred and forty two (71%) women were from the rural back ground and 76% women were from joint families. Of the study population, 44% of women had education status of below 8th standard or were illiterate and just 13% were graduate or having higher qualification. Majority of the women (47%) were from middle class socioeconomic back ground closely followed by lower class (43%) (Table1).

Out of 200 mothers, only 24 (12%) of the mothers were aware of the normal level of blood glucose levels during pregnancy and 10 (5%) were aware about the causes of high blood glucose levels during pregnancy. Only 16% of the mothers were aware

VOLUME-8, ISSUE-8, AUGUST-2019 • PRINT ISSN No. 2277 - 8160

about the adverse effects of diabetes on mother's health and over all less than 50% were aware of the adverse pregnancy outcome. Forty five (45%) of the women were aware of the treatment options available. Seventy three percent of the mothers were attending antenatal clinics regularly and as money as 53% were on some form of medical treatment including dietary restrictions, oral metformin or insulin therapy. Despite being diabetic nearly half of the women (47%) were not on any form of treatment. Despite being diabetic as many as 1/3rd of the mothers were not taking any anti-diabetic medications (Table 2). Similar findings have been reported by Shriraam V et al.4, Afridi JB et al.5 and Carolan M et al.⁶

Table 2 Knowledge, attitude and perception of expectant mothers regarding anemia in pregnancy (n=200)

1	h=
	No. of cases / %age
Yes	24 (12)
Yes	10 (5)
Yes	32 (16)
Yes	60 (30)
Yes	90 (45)
Yes	146 (73)
Yes	82 (41)
Yes	24 (12)
	Yes Yes Yes

References

- 1. Shaw J, Sicree R, Zimmet P. Global estimates of the prevalence of diabetes for 2010 and 2030. Diabetes Research and Clinical Practice. 2010; 87 (1): 4-14.
- Magon N. Gestational diabetes mellitus: Get, set, go from diabetes capital of the world to diabetes care capital of the world. Indian J Endocrinol Metab. 2011;15:161–9.
- Kjos SL, Buchanan TA. Gestational diabetes mellitus. N Engl J Med. 1999;341:1749–56.
- Shriraam V, Rani MA, Sathiyasekaran BWC, and Mahadevan S Awareness of gestational diabetes mellitus among antenatal women in a primary health center in South India Indian J Endocrinol Metab. 2013 Jan-Feb; 17(1): 146–148.doi: 10.4103/2230-8210.107861
- Afridi JB, Khan MJ, Iman NU. Diabetes in females: Knowledge, attitude and practices. J Med Sci. 2010;18:40–4.
- Carolan M, Steele C, Margetts H. Knowledge of gestational diabetes among a multi-ethnic cohort in Australia. Midwifery. 2010;26:579–88.