RWJBarnabas HEALTH Monmouth **Medical Center**

Introduction

Acute pancreatitis (AP) during pregnancy is a rare but severe disease with a high maternal fetal mortality.¹ The most common causes for AP in pregnancy are gallstone pancreatitis which can be attributed to hormonal changes in pregnancy and familial hypertriglyceridemia.² Management strategy for gallstone pancreatitis in pregnancy is with laparoscopic cholecystectomy in the second trimester. However, management of AP of any other etiology is conservative like in nonpregnant individuals.

Methods and Materials

De-identified patient data was used in this study using the National Inpatient Sample (NIS) database. The data covered the years 2002-2016. ICD-9 and ICD-10 codes were used for identification of the different variables being studied and the study population which was stratified in two groups: pregnants with AP and the control group. The data was analyzed using SPSS 10.

Contact

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A0023 - Outcomes of Acute Pancreatitis in Pregnancy: A National Study

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Results and Figures

- A total of 7,886,986 pregnant women in the N identified. 3,295 of them were diagnosed with
- 48.9% of AP occurred in the third trimester w during 30-39 weeks of gestation. 23.4% occu trimester and 27.8% in the second trimester.
- More cases occurred in White race than in African American and Hispanic races (37.5% vs 17.8% vs 35.1% respectively, P< 0.001).
- Fetal mortality with AP was 79.5% compared to 6.4% in the control group (P< 0.001). Spontaneous abortion was noted to be higher with AP compared to controls (0.5% vs 0.2%, P = 0.009).
- Comorbidities that were associated with AP to a greater extent than in controls were overweight/obesity (14.9% vs 8.1%, P< 0.001) and hypertension (1.2% vs 0.2%, P < 0.001).

AP in pregnancy is uncommon with an incidence of 0.082%. However, it is a serious disease that is associated with higher incidence of spontaneous abortion (0.5%), fetal mortality (79.5%) as well as higher rate of pregnancy complications such as hypertension. AP presents mainly during the third trimester of pregnancy and was found to be more common in women of the white race. It was also noted that obesity and overweight were significantly associated with AP during pregnancy which ca contribute to the formation of cholelithiasis which is known to be one of the most common causes the AP in pregnancy along with familial hypertriglyceridemia .³

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	Pregnants with Acute Pancreatitis (N=3,295)	Control group (N=7,867,126)	P-value
Race			
White	37.5%	51.9%	
African American	17.8%	15.6%	< 0.001
Hispanic	35.1%	20.8%	
Others	9.6%	11.7%	
Trimester			< 0.001
First	23.4%	1.2%	
Second	27.8%	2.8%	
Third	48.9%	96.0%	
Liveborn	20.5%	92.6%	< 0.001
Spontaneous abortion	0.5%	0.2%	0.009
Hypertension	1.2%	0.2%	< 0.001
Obesity	14.9%	8.1%	< 0.001
Eclampsia	0.3%	0.1%	0.062

Table 1. Comparison of fetal and maternal outcomes between pregnant females with and without acute pancreatitis.

Discussion

1. Juneja SK, Gupta S, Virk SS, Tandon P, Bindal V. Acute pancreatitis in pregnancy: A treatment paradigm based on our hospital experience. Int J App Basic Med Res 2013;3:122-5. 2. Nesbitt TH, Kay HH, McCoy MC, Herbert WN. Endoscopic management of biliary disease during pregnancy. Obstet Gynecol 1996;87:806-809. 3. Papadakis EP, Sarigianni M, Mikhailidis DP, Mamopoulos A, Karagiannis V. Acute pancreatitis in pregnancy: an overview. Eur J Obstet Gynecol Reprod Biol 2011; 159. 261–266.



Conclusion

S	Acute pancreatitis during pregnancy
sa	obesity and hypertension with poor
	fetal outcomes.
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