

Health care professional's perspective regarding gestational diabetes mellitus in Pakistan: are clinicians on the right track?



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Background

Maternal and fetal complications related to GDM are mostly avoidable by timely diagnosing and appropriate management. Lower to middle income countries such as Pakistan, have increased maternal and neonatal morbidity and mortality associated with GDM, emphasizes the significance of early diagnosis and proper management.

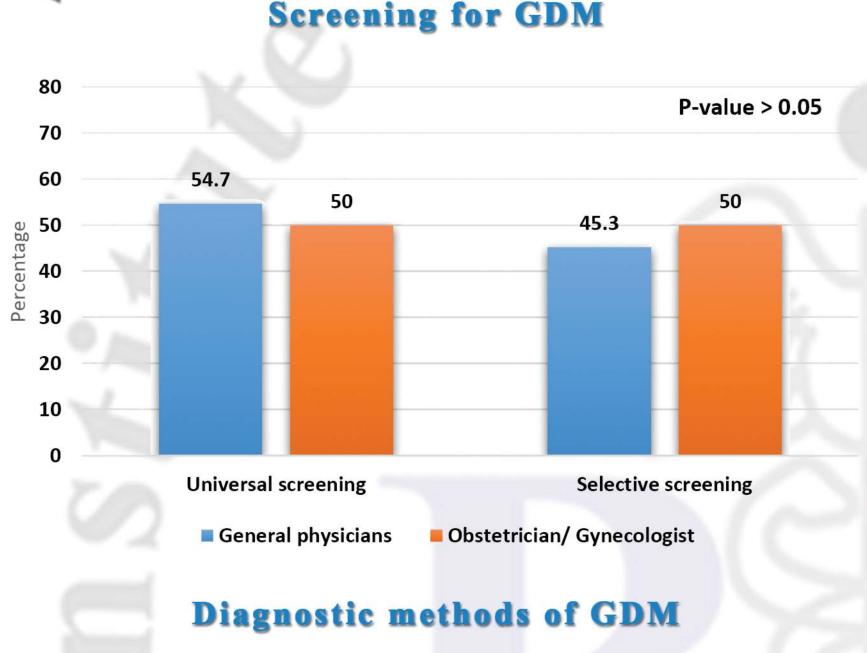
Objective

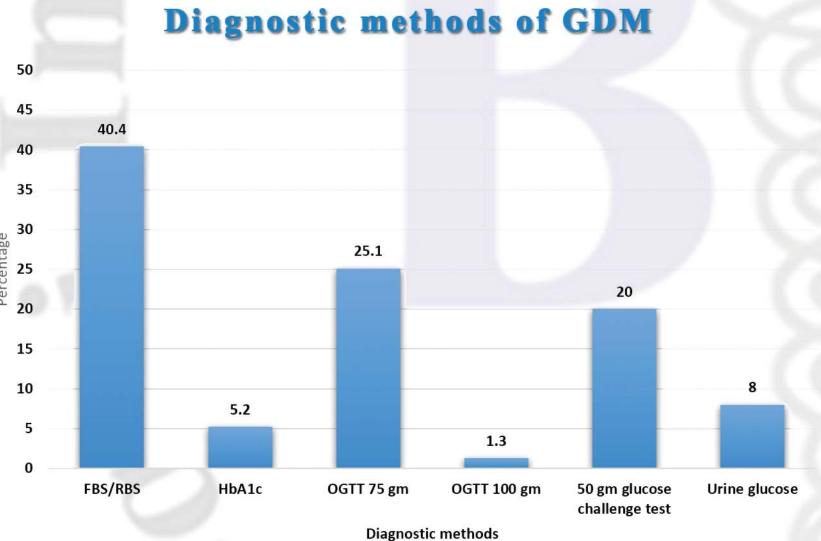
To study health care professionals' perspective working at tertiary care settings regarding gestational diabetes mellitus (GDM) and to recognize differences in the practice and approach amongst them

Methodology

Nationwide cross-sectional survey on the practice patterns with respect to screening, diagnosis, management and follow-up of Gestational Diabetes Mellitus was carried out at several tertiary care hospitals of Pakistan covering physicians/diabetologists/endocrinologists and Obstetrician/gynecologists. Health care professionals from public and private sectors were invited to participate. The self-structured questionnaire was developed by expert panel, had 5 sections and were filled by participants in person or contacted through email. Total 300 health care professionals (HCPs) participated in this survey.

Results





Management of GDM

	General physicians	Obstetrician/ Gynecologist	P-value	Overall
N	190	110	-	300
How do you manage women with GDM				
LSM	7(4.5%)	5(4.7%)	0.939	12(4.6%)
Metformin	3(1.9%)	2(1.9%)	0.999	5(1.9%)
Insulin	25(16.2%)	8(7.5%)	0.039	33(12.7%)
Metformin plus insulin	25(16.2%)	5(4.7%)	0.004	30(11.5%)
LSM and metformin	1(0.6%)	5(4.7%)	0.004	6(2.3%)
LSM and glibenclamide	1(0.6%)	0(0%)	0.425	1(0.4%)
LSM and Insulin	41(26.6%)	21(19.8%)	0.207	62(23.8%
LSM, Metformin and insulin	45(29.2%)	56(52.8%)	0.0001	101(38.8%
Sulfonylurea only	2(1.3%)	1(0.9%)	0.765	3(1.2%)
LSM, Metformin and glibenclamide	0(0%)	2(1.9%)	0.087	2(0.8%)
LSM, glibenclamide and insulin	3(1.9%)	1(0.9%)	0.514	4(1.5%)
LSM, Metformin, glibenclamide, and insulin	1(0.6%)	0(0%)	0.425	1(0.4%)
Which insulin do you prefer for GDM				
Human insulin	115(74.7%)	82(79.6%)	0.509	197(76.7%
Analogues	35(22.7%)	20(19.4%)		55(21.4%
Both	4(2.6%)	1(1%)		5(1.9%)
Which insulin combination do you use				
Free mixing	62(40.3%)	61(58.1%)	0.005	123(47.5%
Pre-mixed insulin	36(23.4%)	21(20%)	0.516	57(22%)
Basal only	20(13%)	16(15.2%)	0.104	36(13.9%
Short acting insulin only	30(19.5%)	7(6.7%)	0.004	37(14.3%
Multiple	6(3.9%)	0(0%)	0.041	6(2.3%)

Trimesters wise screening



GDM Guidelines practiced by study participants



Postpartum follow-up of GDM

	General physicians	Obstetrician/ Gynecologist	P-value	Overall
N	190	110		300
Do you advise any follow-up for GDM v	women after delivery			
Always	142(77.2%)	91(83.5%)	0.196	233(79.5%
Sometimes	42(22.8%)	18(16.5%)		60(20.5%)
If yes, then how many weeks after deli	very			
4 weeks	43(40.6%)	20(41.7%)	0.351	63(40.9%
6 Weeks	48(45.3%)	25(52.1%)		73(47.4%
any other	15(14.2%)	3(6.2%)		18(11.7%
What test do you do on follow-up				
FBS/RBS	55(51.9%)	22(45.8%)	0.154	77(50%)
HbA1c	24(22.6%)	15(31.2%)		39(25.3%
остт	19(17.9%)	11(22.9%)		30(19.5%
Multiple	8(7.5%)	0(0%)		8(5.2%)
If woman postpartum has impaired su	gars or GTT but not re	aching diabetic level what foll	low up do yo	u recommen
Yearly	157(87.2%)	73(68.9%)	0.0004	230(80.4%
None	10(5.6%)	6(5.7%)	0.972	16(5.6%)
Other	13(7.2%)	27(25.5%)	<0.0001	40(14%)
Do you counsel women with GDM abo	ut their increased risk	of developing overt diabetes i	in future	
yes	85(80.2%)	35(72.9%)	0.314	120(77.9%
No	21(19.8%)	13(27.1%)		34(22.1%
Beside tests, do you counsel GDM won	nen about their health	(diet, exercise)		
Yes	150(82.9%)	91(84.3%)	0.759	241(83.49
No	31(17.1%)	17(15.7%)		48(16.6%



The present study reveals that there are major differences amongst health care professionals regarding various aspects of GDM management. To fill these gaps education strategy is urgently needed to update their knowledge. Great attention should be given to postpartum follow up and encouragement to adopt healthy lifestyle.

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