ISSN (print): 2706-6908, ISSN (online): 2706-6894

Vol.15 No.2 June 2020



Selected Antenatal Health Care Parameters of Pregnant Women's in Duhok Province, Iraq Saad Mohammed Shaheen Merza Alsoufi, Lecturer in Technical institute, Duhok Polytechnical University, Iraqi

E-mail: alsufisaad@gmail.com

https://doi.org/10.32792/utq/utj/vol15/2/1

مؤشرات مختارة للأمهات الحوامل للعناية الصحية قبل الولادة في محافظة دهوك- العراق الخلاصة:

أن العناية الصحية للنساء الحوام تعني الخدمات الصحية المقدمة اثناء فترة الحمل وتشمل المراقبة الدقيقة لصحة الام وصحة جنينها طيلة فترة الحمل، إذ يهدف البحث الى تقييم تلك الخدمات من خلال مؤشرات مختارة للعناية الصحية إثناء فترة الحمل في محافظة دهوك العراق، وتم اجراء دراسة مقطعية ميدانية لتقييم البيانات المجمعة لأكثر من 225 حالة تتعلق بمستوى التعليم ومدى الالتزام بتعليمات وارشادات رعاية الحوامل بشكل صحيح، بافتراض وجود علاقة إحصائية ذات دلالة معنوية مستوى التعليم، النظافة الشخصية، تنظيم الاسرة، والاجهاد الجسمائي، والعادات الشخصية، والتعذية، والرعاية الصحية الاولية. توصلت الدراسة الى اهمية التعليم بالنسبة للنساء الحوامل اثناء فترة الحمل وضرورة الالتزام بالمتابعة كما هو مخطط له طبقا للمعايير البحثية، ويوصي البحث بالتأكيد على اهمية اعتماد المعايير المشار إليها من كافة الكوادر الطبية المعنية برعاية النساء الحوامل في مراكز الرعاية الصحية الاولية.

الكلمات المفتاحية: العناية الصحية قبل الولادة, الامهات الحوامل, الرعاية الصحية الاولية, العادات الشخصية. محافظة دهوك.

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

Abstract:

The health care for the hovering women means the health services provided during pregnancy and includes careful monitoring of the mother's health and the health of her fetus throughout pregnancy, as the research aims to evaluate these services through selected indicators of health care during pregnancy in Dohuk Governorate - Iraq, and a crosssectional field study was conducted. To evaluate the data collected for more than 225 cases related to the level of education and the extent of adherence to the instructions and instructions for the care of pregnant women correctly, assuming the existence of a significant statistical relationship of significant level of education, personal hygiene, family planning, physical stress, personal habits, nutrition and primary health care The study found the importance of education for pregnant women during pregnancy and the need to adhere to follow-up as planned according to the research standards, and the research recommends emphasizing the importance of adopting the standards referred to by all medical personnel involved in caring for pregnant women in primary health care centers.

Keywords: Antenatal Care, Pregnant Mothers, PHC, Personal Habits, Duhok.

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

Introduction:

Prenatal (Antenatal) care refers to health services accessed by a woman during her pregnancy and involves careful monitoring of her health and her unborn child's health throughout the pregnancy (1, 2).

Emerging evidence indicates that prenatal care may reduce adverse birth outcomes (3, 4).

The aim of health education during antenatal is to provide advice, education, To short introduction and support, to address and treat the minor problems of pregnancy, and to provide effective screening during the pregnancy (5).

Antenatal care (ANC) is a careful, systematic assessment and follow-up of pregnant women that includes education, counseling, screening, and treatment to assure the best possible health of the mother and her fetus (6, 7).

Objectives:

To evaluate the data collected from pregnant mothers concerning their standard of education as well as their abidance to proper healthy maternal care advices and instructions.

Patients and methods:

A cross sectional field study was performed to evaluate the data collected from pregnant mothers concerning their standard of education as well as their abidance to proper healthy maternal care advices and instructions. The samples collected included 255 surveyed pregnant mothers attending various PHC centers in Dohuk governorate (Duhok, Agree,

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

Zakho, Sumail, Batofa, Shexan, Amedy, Barderash) for the period from (1-sep-2016 to 1-june-2017).

A special questionnaire containing 43 questions was arranged & data collected by direct interview.

Statistical analysis:

Open Epi V.2.3 statistical program is dependent for descriptive statistics analysis and non-parametric Chi square applied for organization and inferential of obtained results.

Frequency tables for seven categories and Probabilities (P=0.05 or 0.01 or 0.001) are dependent for significance.

Categories include standard of education, personal hygiene, family planning, precautionary physical factors, personal habits during pregnancy, dietary factors and PHC visits.

Results:

Standard of Education categories (table 1) frequencies are dispersed into pregnant mothers holders of post graduate degree 0.39%, holders of college/university degree 7.45%, holders of institute degree 12.15%, holders of high secondary school degree 21.17%, holders of intermediate school degree 15.68%, holders of primary school degree 21.17%, those who just read & write 3.13%, and those who are illiterate 18.82%. In total significance of 0.001 between educated (n=207, 81.14%) and non-educated (n=48, 18.82%).

Distribution according to personal hygiene (Table 2) revealed that 58.03% of pregnant mothers bathe daily with luke water, 53.72% wash both of breasts with water & soap & dry them properly, 67.84% change daily their whole body clothes, 40.39% massage their nipples during last

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

2 months of pregnancy. Insignificance between 0.05 to 0.001 to all but except washing breasts or daily brushing teeth.

Table 3 reveals that 40% use contraceptive methods, 62.35% spacing at least 2 years interval

Table 4 shows that 67.45% avoid heavy home works during pregnancy, 67.84% avoid lifting heavy weights to prevent miscarriage, 58.43% avoid standing for long periods of time to prevent leg varicose veins, 67.05% limit travelling during last 3 months of pregnancy, 71.37% limit sexual intercourse during last 3 months of pregnancy, 59.60% abstain sexual intercourse during 9th month of pregnancy.

Table 5 shows that 63.13% walk daily for about one hour in open air, 49.80% avoid spending long time with mobile, 51.76% avoid watching TV for long hours, 62.74% avoid having plenty of xanthines (Tea, Coffee, Cocao, etc...) especially at night, 70.19% never smoke cigarettes & Nargela, 66.27% avoid wearing high heel shoes, 63.52% avoid wearing tight cloths, 71.37% have daily enough rest & sleep.

Table 6 reveals that 69.01% drink plenty of fluids, 71.76% avoid constipation by having plenty of fluids, fruits & vegetables, 70.98% have balanced diet, and 66.66% avoid consuming plenty of sweats & fatty diets.

Finally in table 7 we find that 69.80% never take medicines without doctor's consultation (drug abuse), 63.13% monitor their body weight precisely, 75.29% report PHC centers twice for ultrasonography during pregnancy, 55.29% get their blood pressure measured regularly, 60.78% get their urine analyzed regularly, 72.54% receive anti-tetanus vaccine in time, 55.29% get their blood sugar levels measured regularly, 66.66%

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

report PHC centers in case of having headache, legs or feet edema, severe vomiting, dyspnea or any other symptom, 82.74% report gynecologist whenever having vaginal complaint and finally 61.96% report PHC centers monthly during the 1st. 6th months of pregnancy, then fortnightly during 7-8th months and finally weekly during 9th month of pregnancy.

Table (1): Standard of education of Pregnant Mothers in Duhok Province							
Standard of education categories (No. of pregnant mothers)	Total (n)	%	Total	Probability (P)			
Post graduate degree	1	0.39					
College/university degree	19	7.45					
Institute degree	31	12.15					
High secondary school degree	54	21.17	Educated	0.001			
Intermediate school degree	40	15.68	(n=207)=81.14%				
Primary school degree	54	21.17					
Just read & write	8	3.13					
Illiterate	48	18.82	Non educated (n=48)= 18.82%				

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Table (2): Distribution according to personal hygiene of Pregnant Mothers in Duhok Province						
Personal hygiene categories	Yes (n)	%	No (n)	Total (n)	(P)	
Bathing daily with Luke water	148	58.03%	107	255	0.05	
Washing breasts with water & soap & dry them properly	137	53.72%	118	255	0.1	
Changing daily whole body clothes	173	67.84%	82	255	0.001	
Massaging nipples during last 2 months of pregnancy	103	40.39%	152	255	0.05	
Daily brushing teeth & regularly reporting dentist	137	53.72%	118	255	0.2	

Table (3): Distribution of pregnant mothers in Duhok Province according to family planning						
Family planning categories	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Total (n)	P	
Using contraceptive methods	102	40%	153	255	0.05	
Spacing at least 2 years interval between pregnancies	159	62.35%	96	255	0.05	

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Table (4): Distribution of pregnant mothers in Duhok Province according to precautionary physical factors						
Precautionary physical factors categories	Yes (n)	%	No (n)	Total (n)	P	
Avoiding heavy home works during pregnancy	172	67.45%	83	255	0.001	
Avoiding lifting heavy weights to prevent miscarriage	173	67.84%	82	255	0.001	
Avoiding standing for long periods of time to prevent leg varicose veins	149	58.43%	106	255	0.05	
Limiting travelling during last 3 months of pregnancy	171	67.05%	84	255	0.001	
Limiting sexual intercourse during last 3 months of pregnancy	182	71.37%	73	255	0.001	
Abstaining sexual intercourse during 9 th month of pregnancy	152	59.60%	103	255	0.05	

Table (5): Distribution of pregnant mothers in Duhok Province							
according to personal habits during pregnancy							
Personal habits during pregnancy	Yes	%	No	Total	P		
categories	(n)	/0	(n)	(n)	1		
Walking daily for about one hour in open air	161	63.13%	94	255	0.001		
Avoiding spending long time with mobile	127	49.80%	128	255	0.4823		
Avoiding watching TV for long hours	132	51.76%	123	255	0.3451		
Avoiding having plenty of Xanthines (tea, coffee, cocao, etc) especially at night	160	62.74%	95	255	0.05		
Never smoking cigarettes & narggela	179	70.19%	76	255	0.001		
Avoiding wearing high heel shoes	169	66.27%	86	255	0.001		
Avoiding wearing tight cloths	162	63.52%	93	255	0.001		
Having daily enough rest & sleep	182	71.37%	73	255	0.001		

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Table (6): Distribution of pregnant mothers in Duhok province according to dietary factors						
Dietary factors categories	Yes (n)	%	No (n)	Total (n)	P	
Drinking plenty of fluids	176	69.01%	79	255	0.001	
Avoiding constipation by having plenty of fluids, fruits & vegetables	183	71.76%	72	255	0.001	
Having balanced diet	181	70.98%	74	255	0.001	
Avoiding consuming plenty of sweats & fatty diets	170	66.66%	85	255	0.05	

Table (7): Distribution of pregnant mothers in Duhok province according to abidance to PHC visits						
PHC visits categories	Yes (n)	%	No (n)	Total (n)	P	
Never having medicines without doctor's consultation(drug abuse)	178	69.80%	77	255	0.001	
Monitoring body weight precisely	161	63.13%	94	255	0.001	
Reporting PHC centers twice for Ultra-Sonography during pregnancy	192	75.29%	63	255	0.001	
Measuring blood pressure regularly	141	55.29%	114	255	0.001	
Analysing urine regularly	155	60.78%	100	255	0.01	
Receiving anti-tetanus vaccine in time	185	72.54%	70	255	0.001	
Measuring blood sugar levels regularly	141	55.29%	114	255	0.1159	
Reporting PHC centers in case of having headache, legs or feet edema, severe vomiting,	170	66.66%	85	255	0.001	

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

dyspnea or any other symptom					
Reporting gynecologist whenever having vaginal complaint	211	82.74%	44	255	0.001
Reporting PHC centers monthly during the 1 st . 6 th months, then fortnightly during 7-8 th months and finally weekly during 9 th month of pregnancy.	158	61.96%	97	255	0.05

Discussion:

Table 1 result is almost close to results obtained by other researchers who mentioned to a well-known fact that literacy among women in many developing countries is low, and there are sociocultural beliefs and practices with adverse effects on pregnancy and birth occurring even among educated women (8, 9).

Table 2 result does not differ much from what other researchers found in their studies and revealed that improper care of their teeth and gums during pregnancy can have a negative impact on not only the teeth and gums of their babies, but also on birth weight and ability to carry to term (10-11).

Also showed that short birth intervals and unintended pregnancies pose serious health risks to mothers and their infants by causing unnecessary high risk of pregnancy related complications and self-induced abortions (12).

Table 3 result confirms the importance of the fact mentioned by other researchers that benefits of pregnancy planning and child spacing on maternal, infant and child health has been well documented (13-14).

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

Researches have shown that family planning can reduce about 25% to 40% of maternal deaths by preventing unplanned and unwanted pregnancies and about 10% of child deaths by eliminating inter-birth intervals of less than two years (15, 16).

The World Health Organization (WHO) technical consultation on birth spacing recommended a birth to conception interval of at least two years to reduce the risk of adverse maternal, perinatal and infant outcomes (17).

Table 4 result confirms the importance of the fact mentioned by other researchers to avoid sitting or standing in the same position for long periods of time and to make sure to take breaks to change position (18-20)

Similar result is obtained regarding having sex during pregnancy (21, 22).

Table 5 result confirms what other studies insisted upon avoiding wearing high heels and it is better to wear lower-heel or flat shoes as this works calf muscles, fostering healthy circulation and to get regular exercise. (23).

Maintaining of a regular exercise routine throughout pregnancy can help stay healthy and feel best as regular exercise during pregnancy can improve posture and decrease some common discomforts such as backaches and fatigue, in addition there is evidence that physical activity may prevent gestational diabetes, relieve stress, and build more stamina needed for labor and delivery (24-26).

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

This result confirms what other studies stated that maternal smoking during pregnancy is consistently reported as a predictor of adverse birth outcomes such as preterm birth and low birth weight as well as fetal and infant mortality.

Although no level of tobacco use during pregnancy is safe, greater smoking intensity measured by the number of cigarettes smoked per day, has been shown to have more deleterious effects on the fetus than lighter smoking (27).

Table 6 result is nearly identical to what most of researchers recommended to drink plenty of water and eat enough fiber to prevent constipation (28).

Also maintaining good nutrition and a healthy diet during pregnancy is critical for the health of the mother and unborn child. WHO recommends a healthy diet during pregnancy containing adequate energy, protein, vitamins and minerals, obtained through the consumption of a variety of foods, including green and orange vegetables, meat, fish, beans, nuts, pasteurized dairy products and fruit. In addition, maternal malnutrition is a key contributor to poor fetal growth, low birth weight (LBW) and short- and long-term infant morbidity and mortality.

There's no magic formula for a healthy pregnancy diet. In fact, during pregnancy the basic principles of healthy eating remain the same - get plenty of fruits, vegetables, whole grains, lean protein and healthy fats.

The nutritional status of a woman before and during pregnancy is important for a healthy pregnancy outcome. Maternal malnutrition is a

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

key contributor to poor fetal growth, low birth weight (LBW) and shortand long-term infant morbidity and mortality. **Nutritional** education to increase protein and energy intake decreases the risk of preterm birth and low birth weight, with a relative increase of almost half a kilogram in the birth weight of infants born to undernourished women, nutritional education was found to be effective in reducing the risk of preterm birth and low birth weight, improving head circumference at birth, and in improving birth weight among infants to undernourished **Balanced** energy/protein born women. supplementation reduced the risk of stillbirth and small-for-gestational age, and improved birth weight (29, 30). Table 7 results does not differ from other studies which concluded that hypertension is the most common medical problem encountered during pregnancy, complicating up to 10% of pregnancies (31, 32).

Urine screen is primarily performed to check for urinary tract infections and approximately 2-3% of women will develop gestational diabetes in their pregnancy (33, 34).

Finally routine visits by pregnant women to PHC centers are important and should be attended as scheduled monthly during the 1st. 6th months, then fortnightly during 7-8th months and finally weekly during 9th month of pregnancy. (35).

Conclusion:

Health education of pregnant mothers during the antenatal care session is very essential.

Recommendations:

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

Questionnaire should be emphasized upon all medical staff dealing with pregnant mothers in PHC centers.

References:

- 1.Carroli G, Villar J, Piaggio G, Khan-Neelofur D, Gülmezoglu M, Mugford M, Lumbiganon P, Farnot U, Bersgjø P, WHO Antenatal Care Trial Research Group: WHO systematic review of randomized controlled trials of routine antenatal care. The Lancet. 2001, 5 (19): 1565-1570. View Article Google Scholar
- 2.Hall MH: Rationalization of antenatal care. The Lancet. 2001, 357: 1546-10.1016/S0140-6736(00)04777-2.View ArticleGoogle Scholar
- 3.Hall MH: Rationalization of antenatal care. The Lancet. 2001, 357: 1546-10.1016/S0140-6736(00)04777-2.View ArticleGoogle Scholar
- 4.Vintzileos AM, Ananth CV, Smulian JC, Scorza WE, Knuppel RA: Prenatal care and black-white fetal death disparity in the United States: heterogeneity by high-risk conditions. Obstet Gynecol. 2002, 99 (3): 483-489. 10.1016/S0029-7844(01)01758-6.
- 5. Mohammed A Al-Ateeq and Amal A Al-Rusaiess: Health education during antenatal care: the need for more. Int J Womens Health. 2015; 7: 239–242. Published online 2015 Feb 18. doi: 10.2147/IJWH.S75164.
- 6. Di Mario S, Basevi V, Gori G, Spettoli D. What is the effectiveness of antenatal care? (Supplement), WHO Regional Office for Europe (Health Evidence Network report) 2005.
- 7.Dhange P, Breeze ACG, Kean LH. Routine antenatal management at the booking clinic. Obstet Gynaecol Reprod Med. 2013;23:45–52.
- 8.Onah HE. Formal education does not improve the acceptance of cesarean section among pregnant Nigerian women. Int J Gynaecol Obstet. 2002;76(3):321–323.
- 9. HazelBarrett, AngelaBrowne: Health, hygiene and maternal education: Evidence from The Gambia. Volume 43, Issue 11, December 1996, Pages 1579-1590.

ISSN (print): 2706-6908, ISSN (online): 2706-6894



- 10. P Gwengu: Determinants of Utilization of Oral Health Services by Postnatal Mothersin Winterveldt, Gauteng Province, South Africa. 2017, 5:1.DOI: 10.4172/2332-0702.1000222.
- 11. Arora A, Bedros D, Bhole S, Do LG, Scoot J, et al. (2011) Child and family health nurses' experiences of oral health of preschool children: a qualitative approach. J Public Health Dent 72: 149-155.
- 12. Yohannes Dibaba: Child Spacing and Fertility Planning Behavior Among Women in Mana District, Jimma Zone, South West Ethiopia. Ethiop J Health Sci. 2010 Jul; 20(2): 83–90.
- 13. Rutstein S. Effects of preceding birth intervals on neonatal, infant and under-five years mortality in developing countries: evidence from the demographic and health surveys. International Journal of Gynecology and Obstetrics.2005;89:S7–S24. [PubMed]
- 14. DaVanzo J, Razzaque A, Rahman M, et al. The effects of birth spacing on infant and child mortality, pregnancy outcomes, and maternal morbidity and mortality in Matlab, Bangladesh. California: Rand; 2004. Rand Working Paper, WR-198.
- 15. Campbell O, Graham W. Strategies for reducing maternal mortality: Getting on what works. Lancet. 2006 Sep;:25–39. [PubMed]
- 16. Cleland J, Bernstein S, Ezeh A, Faundes A, Glasier A, Innis J. Family Planning: The Unfinished Agenda.Lancet. 2006 Oct;:47–64. [PubMed]
- 17. WHO 2006, author. Report of a WHO Technical Consultation on birth spacing. Geneva: Switzerland; 2005. Jun 13–15,

ISSN (print): 2706-6908, ISSN (online): 2706-6894



- 18. Mary M. Murry, R.N., C.N.M.: Varicose veins and pregnancy: Legs and more. April 10, 2013.
- 19. Newton de Barros Junior; Maria Del Carmen Janeiro Perez; Jorge Eduardo de Amorim; Fausto Miranda Junior: Pregnancy and lower limb varicose veins: prevalence and risk factors. J. vasc. bras. vol.9 no.2 Porto Alegre June 2010.
- 20. MD Smyth, Nasreen Aflaifel, Anthony A Bamigboye: Interventions for varicose veins and leg oedema in pregnancy. Cochrane Database of Systematic Reviews 2015, Issue 10. Art. No.: CD001066.
- 21. Claire Jones, MD, Crystal Chan, MD, and Dan Farine, MD: Sex in pregnancy. CMAJ. 2011 Apr 19; 183(7): 815–818..
- 22. Laurisse Sossah: SEXUAL BEHAVIOR DURING PREGNANCY: A DESCRIPTIVE CORRELATIONAL STUDY AMONG PREGNANT WOMEN. European Journal of Research in Medical Sciences. Vol. 2 No. 1, 2014 ISSN 2056-600X.
- 23. Yasutaka FUJITA, Mizue UECHI, Chika UEHARA, Naoto KAWAI, Masashi SUZUKI, Hideki NINOMIYA, Shigeto WATANABE, Jyunji KATSUHIRA, Shigeko FUJISAWA: Influence of Heel Height on Gait during Pregnancy and Features the Pregnant Women's Gait. Volume 21 (2006) Issue 3 Pages 287-291. J-STAGE home/Rigakuryoho Kagaku/ Volume 21 (2006) Issue 3, Pages 287-291

ISSN (print): 2706-6908, ISSN (online): 2706-6894



- 24. Effect of diet and physical activity based interventions in pregnancy on gestational weight gain and pregnancy outcomes: meta-analysis of individual participant data from randomised trials: BMJ 2017;358:j3119.
- 25. María Perales, PhD; Raul Artal, MD; Alejandro Lucia, MD, PhD:Exercise During Pregnancy. JAMA. 2017;317(11):1113-1114.
- 26. RaulArtalMD, FACOG, FACSM: The role of exercise in reducing the risks of gestational diabetes mellitus in obese women. ACOG, Volume 29, Issue 1, January 2015, Pages 123-132.
- 27. Marufu TC, Ahankari A, Coleman T, Lewis S. Maternal smoking and the risk of still birth: Systematic review and meta-analysis BMC Public Health 15:239. 2015.
- 28. Homero Martinez: Fluid Consumption by Mexican Women during Pregnancy and First Semester of Lactation. Biomed Res Int. 2014.
- 29. Abu-Saad K, Fraser D. Maternal nutrition and birth outcomes. Epidemiologic Reviews 2010; 32:5–25.
- 30. Amy Webb Girard, Oluwafunke Olude: Nutrition Education and Counselling Provided during Pregnancy: Effects on Maternal, Neonatal and Child Health Outcomes. Paediatric and Perinatal Epidemiology, 2012, 26 (Suppl. 1), 191–204.
- 31. Reem Mustafa, Sana Ahmed, Anu Gupta, and Rocco C. Venuto: Comprehensive Review of Hypertension in Pregnancy. Journal of Pregnancy. Volume 2012 (2012), Article ID 105918, 19 pages.
- 32: Bharti Mehta, Vijay Kumar, Summit Chawla, Sandeep Sac deva and Debjyoti Mahopatra: Hypertension in Pregnancy: A Community-Based Study. Indian J Community Med. 2015 Oct-Dec; 40(4): 273–278.
- 33. Kant S, Lohiya A, Kapil A, Gupta SK.: Urinary tract infection among pregnant women at a secondary level hospital in Northern India.Indian J Public Health. 2017 Apr-Jun;61(2):118-123.
- 34. Lai YJ, Hsu TY, Lan KC, Lin H, Ou CY, Fu HC, Tsai CC: Asymptomatic pyuria in pregnant women during the first trimester is associated with an increased risk of adverse obstetrical outcomes.

ISSN (print): 2706-6908, ISSN (online): 2706-6894



Vol.15 No.2 June 2020

Taiwan J Obstet Gynecol. 2017 Apr;56(2):192-195. 35. Robin Elise Weiss: Prenatal Care Schedule During Pregnancy. VeryWell.August 22, 2017.61