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USE OF SILDENAFIL CITRATE IN TREATMENT OF INTRA UTERINE GROWTH RESTRICTION (IUGR)

By

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ABSTRACT

Background: Sildenafil citrate is a phosphor-diestrase enzyme 5 inhibitor that leads to increasing the cyclic guanosine monophosphate and so enhancing the vasodilator effect of nitric oxide through which it may increase placental perfusion. So, it is used to treat pre-eclampsia.

Objective: To evaluate the efficacy of low dose sildenafil in the treatment of intra uterine growth restriction by estimating fetal biometry and fetal Doppler parameters using trans-abdominal ultrasound.

Patients and methods: This was a case control study carried on 40 pregnant female, at outpatient clinic of Department of Obstetrics and Gynecology at Zagazig General Hospital with intrauterine growth restriction singleton pregnancy. IUGR was diagnosed with ultrasound and fetal Doppler and gestational age ranged from 26 week of gestation to 31 week of gestation according to first day of last menstrual period in regular cycle patients or first trimestric visit ultrasound.

Results: Umbilical artery Pulsitility Index (PI) in study and control groups before and after therapy showing statistically significant decrease in PI in study group compared to control group after therapy. Improvement in cerebroplacental ratio in study group compared to control group after therapy. There was no statistically significant difference between both groups regarding gestational age at delivery. There was a statistically significant difference regarding changes in Amniotic Fluid Index (AFI) in both groups after therapy.

Conclusion: The administration of oral sildenafil tablets (20 mg twice a day) for 6 weeks improved Doppler indices in umbilical artery and cerebroplacental ratio, yet it had no effect on gestational age at neither birth nor birth weight.

Keywords: Sildenafil, Intra Uterine Growth Restriction, IUGR.

INTRODUCTION

Intrauterine growth restriction (IUGR) is a syndrome characterized by a deficiency of fetal growth compared to the normal standards for the gestational age. IUGR affects approximately 3 to 7% of all pregnancies. The growth restricted fetus is at increased risk for morbidity and mortality, it is estimated that perinatal

mortality is 5-10 times higher in growth restricted fetus than those of the same gestational age and appropriate size (*Sharma et al.*, 2016).

Ultrasound has been used since the mid-1980s as a tool for determining fetal health. A variety of sonographic parameters have been used to screen and diagnose IUGR including fetal biometry,

fetal body proportions, amniotic fluid volume, subcutaneous tissue thickness and estimated fetal weight (EFW) (Sovio et al., 2015). Abdominal circumference (AC) and estimated fetal weight (EFW) are the most accurate diagnostic measurements to predict SGA (Larciprete et al., 2010).

Fetal growth aberrations, i.e. IUGR are associated with changes in the body proportions as undernourished directs most of its energy to maintain the growth of vital organs, such as the brain and heart, at the expense of the liver, muscle and fat. This results in decreased circumference abdominal and thigh measurements and hence theoretically increased HC/AC, FL/AC and FL/TC ratios. However the studies on first two ratios have yielded controversial findings (Dacaj et al., 2016).

Sildenafil citrate is an oral therapy that was first described for the treatment of erectile dysfunction. Sildenafil is a selective inhibitor of cGMP-specific PDE-5. Sildenafil citrate was the first PDE-5 inhibitor approved by the United States Food and Drug Administration (FDA). The mechanism of action for the PDE-5 inhibitors involves increased tissue levels of cGMP, which causes smooth muscle relaxation and vasodilatation. The recent advancing clinical studies suggest some very promising new applications of PDE-5 inhibitors, far beyond their urological scope (*Hatzimouratidis*, 2010).

In human, the use of sildenafil citrate in some pregnancy-related disorders as preeclampsia (PET) and IUGR revealed encouraging results (*El-Sayed et al.*, 2018).

The aim of this study was to evaluate the efficacy of low dose sildenafil in the treatment of intra uterine growth restriction by estimating fetal biometry and fetal doppler parameters using transabdominal ultrasound.

PATIENTS AND METHODS

This study had been conducted at outpatient clinic of Department of Obstetrics and Gynecology at Zagazig General Hospital from December 2019 to August 2020. This was a case control study that included 40 pregnant women diagnosed as IUGR.

Ethical Consideration: Study protocol had been submitted for approval by ethical committee of Al-Azhar University. Informed written consent had been obtained from each participant sharing in the study. Confidentiality and personal privacy had been respected in all levels of the study.

Inclusion criteria: Pregnant women aged from 21 to 45 years old, pregnant women with singleton pregnancy, IUGR as diagnosed with ultrasound and fetal Doppler, and pregnant women at gestational age from 26 week of gestation to 31 week of gestation according to first day of last menstrual period in regular cycle patients or first trimester visit ultrasound.

Exclusion criteria: Pregnant women < 21 or > 45 years old, pregnant women with multiple pregnancies, pregnant women with congenital fetal malformations, pregnant women with premature rupture of membranes, pregnant women using any vasodilator drugs in treatment of preconceptional medical diseases, maternal vascular diseases that affect fetal

Doppler as autoimmune diseases, pregnant women who were smokers or alcohol abusers, and pregnant women who developed an urgent delivery during follow up.

Patients were divided into two equal groups: Group I (Case group) have received 20 mg of Sildenafil Citrate twice daily, and Group II (Control group) have not received the drug.

Patients were subjected to:

Complete history taking: Personal history, menstrual history, obstetric history, present history, family history, history of allergy to any medication including sildenafil citrate and surgical history of operations.

Examination: General examination and Abdominal and local clinical examination.

Investigations: Complete blood count. Coagulation profile. Liver and kidney function tests. Complete urine analysis. Random blood sugar. Others, e.g. protein creatinine ratio.

Ultrasound: Trans-abdominal ultrasound examination by a GE Voluson 730 Proultrasound machine with a 3.5MHz abdominal probe. Sonographic examinations had been performed by only one sonographer. All of the sonographic examinations will be recorded digitally. Women had been scanned weekly to; Correlate gestational age according to first day of last menstrual period in regular cycle patients or first trimester visit ultrasound and current gestational age at time of first visit by ultrasound. Measure body expected fetal weight. Fetal biometry Abdominal Circumference (AC), Bi Parietal Diameter (BPD), Circumference (HC), Femur Length(FL), Amniotic Fluid Index (AFI). Fetal Doppler ultrasound over umbilical artery and middle cerebral artery.

Doppler flowmetry: For umbilical artery and middle cerebral artery. Distribution of blood flow in the fetus was measured by C/U (C=middle cerebral artery resistance index, U=umbilical artery resistivity index) which is more than 1.1 throughout the normal pregnancy. Ultrasonography and Doppler were done at time of first visit and repeated weekly after initiation of treatment and then followed-up regularly until 31 weeks of gestation.

Outcome measures of the study as following: Umbilical artery Doppler: Pulsitility Index (P.I), Resistivity Index (R.I). Middle cerebral artery Doppler (P.I, R.I). Fetal biometry: Abdominal Circumference (AC), Bi Parietal Diameter (BPD), Head Circumference (HC), Femur Length (FL), Amniotic fluid Index (AFI).

Statistical Analysis:

Data collected throughout history, basic clinical examination, laboratory investigations and outcome measures coded, entered and analyzed Microsoft Excel software. Data were then imported into Statistical Package for the Social Sciences (SPSS version 20.0) software for analysis. According to the type of data quantitative continues group were represented by mean ± SD and range, the following tests were used to test differences for significance. Differences between quantitative independent groups by t test or Mann Whitney, paired t test was used to compare before and after date for the same group. P value was set at <0.05 for significant results.

RESULTS

There was no significant difference between groups regarding age. The mean \pm SD ages of patients and controls were (28.4 \pm 6.8) years and (28.6 \pm 6.4) years, respectively. Also, there was no significant difference between groups

regarding BMI. The mean \pm SD BMI of Case and controls were (25.4 \pm 2.4) and (25.3 \pm 2.3), respectively. So patient and control group were age and BMI matched (**Table 1**).

Table (1): Demographic and baseline clinical characteristics of the study groups.

Demographic data	Groups	Case (n = 20)	Control (n =20)	P value
Age (yrs.) Mean ± SD		28.4 ± 6.8	28.6 ± 6.4	>0.05
Weight (kg) Mean ± SD		70. 3±5.12	70 .90±5.09	>0.05
Height (m) Mean ± SD		1.66±0.31	1.64 ±0.32	>0.05
BMI(kg/m3) Mean ± SD		25.4 ± 2.4	25.3 ± 2.3	>0.05

Umbilical artery UA S/D showed a statistically significant decrease in UA S/D in study group compared to control group after therapy. Umbilical artery PI showed a statistically significant decrease

in PI in study group compared to control group after therapy. Middle cerebral artery PI before and after therapy showed a statistically significant difference (**Table 2**).

Table (2): Umbilical artery UA S/D ratio, umbilical artery P.I and Middle cerebral artery (MCA) PI in study and control groups before and after therapy

Groups	Control	Case	D	
Parameters	(n=20)	(n=20)	P	
UA S/D:				
Before				
Min Max.	2.10 - 1.80	2.30 - 4.10	>0.05	
Mean \pm SD.	3.1 ± 0.58	3.41 ± 0.55	>0.03	
After				
Min. – Max.	2.30 - 3.70	2.60 -3.70	>0.05	
Mean \pm SD.	3.11 ± 0.65	3.02 ± 0.33	>0.03	
p_1	> 0.05	0.025^{*}		
UA PI:				
Before				
Min Max.	0.92 - 1.51	0.91 - 1.40	>0.05	
Mean \pm SD.	1.03 ± 0.14	1.05 ± 0.11	>0.03	
After				
Min. – Max.	0.86 - 1.20	0.90 - 1.50	>0.006	
Mean \pm SD.	1.04 ± 0.15	1.17 ± 0.13	<i>></i> 0.000	
p_1	>0.05	0.012*		
MCA PI:				
Before				
Min Max.	1.3 - 2.50	1.2 - 2.3	>0.05	
Mean \pm SD.	1.80 ± 0.31	1.65 ± 0.42		
After				
Min. – Max.	1.85 - 2.30	1.75 - 2.60	<0.05	
Mean ± SD.	2.01 ± 0.15	2.11 ± 0.21		
p_1	>0.05	0.01*		

There was an improvement in cerebro placental ratio in study group compared to control group after therapy (**Table 3**).

Table (3): Cerebro placental ratio (CPR) in study group compared to control group after therapy

CPR	Groups	Control (n=20)	Case (n=20)	P	
Before					
Min. – Max.		1.46 - 2.58	1.38 - 2.67	> 0.05	
Mean \pm SD.		1.97 ± 0.30	2.01 ± 0.34	> 0.05	
After					
Min. – Max.		1.49 - 2.66	1.01 - 2.0	0.01*	
Mean \pm SD.		1.94 ± 0.34	1.42 ± 0.31	0.01	
p_1		> 0.05	<0.01*		

There was a statistically significant difference regarding rate of increase of

estimated fetal weight per week in both study and control groups (**Table 4**).

Table (4): Rate of increase of estimated fetal weight per week in both study and control groups

Groups EFW/W (g)	Cases (n=20)	Control (n=20)	U	P
Min Max.	63.1 - 126.60	66.1 - 116.0	100.5	0.031
Mean \pm SD.	98.16± 30.2	90.20 ± 19.3	122.5	

The U value was 122.5, and the critical value of U at P<0.05 was 127.

Regarding changes in AFI in both groups after therapy, there was a

statistically significant difference before and after treatment (**Table 5**).

Table (5): Regarding changes in amniotic fluid index (AFI) in both groups after therapy

Groups AFI (cm)	Cases (n=20)	Control (n=20)	W	U	P	
Pre-treatment	Pre-treatment Pre-treatment					
Min. – Max.	3.0 - 15.0	5.0 - 20.0	71.5	175	>0.05	
Mean \pm SD.	5.50 ± 3.08	6.93 ± 3.79	/1.3			
Post treatment						
Min. – Max.	5.0 - 13.0	3.0 - 17.0	47	123	0.03	
Mean ± SD.	6.07 ± 2.09	6.03 ± 3.33	4/			
p ₁	0.024	>0.05				

Pre-treatment *the U value was 175. The critical value of U at P < 0.05 was 127.

Post treatment*the U value was 123. The critical value of U at P < 0.05 was 127.

DISCUSSION

The present study showed that there was no significant difference between groups regarding age. This was in agreement with study conducted by *Mohammed et al.* (2017).

Regarding BMI, there was no significant difference between groups. This was in agreement with *Mohammed et al.* (2017).

This study showed that umbilical artery UA S/D in study and control groups before and after therapy with a statistically significant decrease in UA S/D ratio and umbilical artery PI. According to middle cerebral artery this study showed that

middle cerebral artery PI increased after sildenafil administration in case group and showed a statistically significant difference between two groups.

According to EFBW, this study showed that there was a statistically significant difference regarding rate of increase in abdominal circumference and EFBW in both groups after therapy. Moreover, this study showed improvement in cerebro placental ratio in case group compared to control group after therapy.

Maged et al. (2018) showed a statistically significant difference in the mean birth weight at delivery and neonatal

^{*} The value of Wilcoxon signed rank test was 71.5. The critical value of Wilcoxon signed rank test at N = 20 (P <0.05) is 52.

^{*} The value of Wilcoxon signed rank test was 47. The critical value of Wilcoxon signed rank test at N=20 (P <0.05) wes 52.

admission to the newborn nursery in sildenafil group.

Abdelshafy et al. (2019) showed a significant improvement in umbilical and middle cerebral artery indices sildenafil administration. This difference became evident after 3 weeks of gestation from sildenafil administration mainly after 33 weeks of pregnancy where mean umbilical artery pulsatility index (UAPI) significantly decreased in the sildenafil group in comparison with the placebo group. Regarding the middle cerebral velocity indices, artery there was significant increase in mean MCA pulsatility index (PI) after sildenafil administration in comparison with the placebo group at term. Also, in sildenafil group, there was a significantly higher mean neonatal birth weight. There was a significantly higher mean gestational age at delivery in women in sildenafil group, whereas it was lower in the placebo group.

Maher et al. (2017) concluded that a significant difference in the rate of remaining undelivered was detected from 3 weeks onward for those allocated to sildenafil.

Vigil-De Gracia and Ludmir (2016) found that resistance to blood flow in the uterine and umbilical arteries significantly lower in patients treated with sildenafil citrate. These were with reduction in resistance to blood flow in uteroplacental fetoplacental and circulations.

Khan et al. (2017) showed that randomized trial with 37 patients in study group who were administered Sildenafil 25mg TID and 56 patients in control group who were administered a similar placebo. Velocimetry indices in umbilical

artery and middle cerebral artery were calculated at eligibility and one week post initiation of intervention. Differences in Sildenafil treated and Sildenafil naive. Sildenafil treated fetuses have significantly higher decrease in RI. In umbilical artery compared to control group. Middle cerebral artery velocimetry showed a higher increase in RI in study vs. control group from eligibility to determination of effect. A significantly higher increase was also seen determination in study group compared to control group. Sildenafil appeared to significantly normalize ultrasound doppler velocimetry indices in foetuses affectted with late onset restriction.

Trapani et al. (2016) conducted a double-blind, placebo-controlled trial to evaluate the effects of sildenafil citrate on Doppler velocity waveforms of umbilical (UA) and fetal middle cerebral (MCA) arteries in pregnancies with intrauterine restriction growth (IUGR). compared pulsatility index (PI) of UA and fetal MCA before and after application of oral sildenafil citrate (50mg) or placebo. There was a significant reduction in UA-PI, also observed for sildenafil citrate (18.2%).No changes in Doppler velocimetry were observed in the placebo group and no significant change in MCA-PI was observed in any group.

Regarding changes in AFI in both groups, this study showed a statistically significant difference before and after treatment in case group.

Khodry et al. (2020) showed an insignificance difference in EFBW in both groups, but AFI was significant increase in group which administrated sildenafil.

This insignificance may be due to short time of follow up.

El-Sayed et al. (2018) found that Umbilical artery S/D ratio has no significant difference. The difference may be due to their gestational age sample was 24 week and more.

Sharp et al. (2018) Concluded that Sildenafil did not prolong pregnancy or improve pregnancy outcomes in severe early-onset fetal growth restriction. Moreover they reported a possibility that the 25 mg dose three times daily might have a deleterious effect on blood flow in the ductus venosus particularly in fetuses with absent or reversed end-diastolic flow in the umbilical artery. That may be different from results of this study due to early onset of administration of sildenafil and prolonged administration in some cases till delivery, and change dose 3 times per day not two times. These results may be due to studying only early onset of IUGR (22week of gestation).

Mohammed et al. (2017) Conclude that the administration of oral sildenafil tablets 20 mg twice a day for 6 weeks improved Doppler indices in umbilical artery and cerebroplacental ratio, yet it had no effect on birth weight. The difference may be due to small sample size in this study.

CONCLUSION

The administration of oral sildenafil tablets (20 mg twice a day) for 6 weeks improved Doppler indices in umbilical artery and cerebroplacental ratio, yet it had no effect on gestational age at neither birth nor birth weight.

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إستخدام عقار سترات السيلدينافيل في علاج حالات تأخر نمو الجنين داخل الرحم

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خلفية البحث: يعرف تأخر نمو الجنين داخل الرحم على أنه نقص وزن الجنين أو أقل من المئين العاشر حيث يكون الجنين متأخرا عن أقرانه بمقدار أسبوعين أو أكثر، ويكون مصحوبا بتغيرات غير طبيعية في معاملات دوبلر للشريان السري والشريان السدماغي الأوسط. ويعتبر عقار سترات السيلدينافيل من العقارات المثبطة لانزيم الفوسفو داي إستريز 5 مما يسبب زيادة مادة الجوانوزين أحادي الفوسفات الحلقية التي تزيد من تأثير مادة أكسيد النيتريك التي تعمل على اتساع الأوعية الدموية ولذلك قد يستخدم في عالج متلازمة تسمم الحمل.

الهدف من البحث: تقييم فعالية جرعة منخفضة من السيلدينافيل في علاج تقييد النمو داخل السرحم عن طريق تقدير القياسات الحيوية للجنين ومعلمات دوبلر الجنين باستخدام الموجات فوق الصوتية عبر البطن.

المريضات وطرق البحث: قامت الدراسة على أربعين مريضة من المترددات على العيادات الخارجية بمستشفى الزقازيق العام من سن واحد وعشرين سنة الى سن خمسة وأربعين سنة فى الفترة بين ديسيمبر 2019 حتى اغسطس 2020 واللاتى تم تشخيص حملهن على أنه تاخر نمو الجنين داخل الرحم عن طريق الموجات الفوق الصوتية وذلك أثناء العمر الحملي من الأسبوع السادس والعشرين وحتى الأسبوع الحادي والثلاثين.

نتائج البحث: لم يكن هناك فرق كبير بين المجموعات فيما يتعلق بالعمر أو معامل كتلة الجسم. لم يكن هناك فرق كبير بين المجموعات فيما يتعلق بعدد مرات الولادة السابقة، وكذلك بوجود زلال في البول من عدمه. ولم يكن هناك فرق كبير بين المجموعات فيما يتعلق بالعمر الجنيني للجنين، وكنان هناك فرق كبير بين المجموعات فيما يتعلق بالعمر الجنيني للجنين، وكنان هناك فرق كبير بين المجموعات من حيث معاملات دوبلر للشريان السري، كما كنان هناك فرق كبير

بين المجموعات من حيث معاملات دوبلر للشريان الأوسط الدماغي. وكان هناك فرق كبير بين المجموعات من حيث النسبة بين التدفق الدموي الدماغي إلى التدفق الدموي المشيمي مما يعني تحسن هذه النسبة مع المريضات اللاتي تتعاطى العقار. كذلك كان هناك فرق كبير بين المجموعات من حيث قياس محيط بطن الجنين والحوزن المتوقع للجنين مما يعني تحسن كليهما مع تعاطي العقار. وكان هناك فرق كبير بين المجموعات من حيث كمية السائل الأمنيوسي حيث وجد أن كمية السائل الأمنيوسي تتحسن مع تعاطى العقار.

الاستنتاج: تناول أقراص السيلدينافيل عن طريق الفم (20 ملغ مرتين في اليوم) لمدة 6 أسابيع أدى إلى تحسين مؤشرات دوبلر في الشريان السري ونسبة الدماغي الدماغي، إلا أنه لم يكن له تأثير على عمر الحمل عند الولادة أو وزن الولادة.

الكلمات الدالة: سيلدينافيل، تقييد النمو داخل الرحم، تأخر النمو داخل الرحم.