GLOBAL JOURNAL

OF MEDICAL RESEARCH: E

Gynecology and Obstetrics

Ewing Sarcoma of Ovary

Rising Trend of Caesarean Section

Highlights

Cervical Ripening in Induction

Hematocolpos SUR Imperforation

Discovering Thoughts, Inventing Future

VOLUME 15

ISSUE 4

VERSION 1.0



GLOBAL JOURNAL OF MEDICAL RESEARCH: E GYNECOLOGY AND OBSTETRICS

GLOBAL JOURNAL OF MEDICAL RESEARCH: E GYNECOLOGY AND OBSTETRICS

VOLUME 15 ISSUE 4 (VER. 1.0)

OPEN ASSOCIATION OF RESEARCH SOCIETY

© Global Journal of Medical Research . 2015.

All rights reserved.

This is a special issue published in version 1.0 of "Global Journal of Medical Research." By Global Journals Inc.

All articles are open access articles distributed under "Global Journal of Medical Research"

Reading License, which permits restricted use.

Entire contents are copyright by of "Global
Journal of Medical Research" unless
otherwise noted on specific articles.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without written permission.

The opinions and statements made in this book are those of the authors concerned.

Ultraculture has not verified and neither confirms nor denies any of the foregoing and no warranty or fitness is implied.

Engage with the contents herein at your own risk

The use of this journal, and the terms and conditions for our providing information, is governed by our Disclaimer, Terms and Conditions and Privacy Policy given on our website http://globaljournals.us/terms-and-condition/

menu-id-1463/

By referring / using / reading / any type of association / referencing this journal, this signifies and you acknowledge that you have read them and that you accept and will be bound by the terms thereof.

All information, journals, this journal, activities undertaken, materials, services and our website, terms and conditions, privacy policy, and this journal is subject to change anytime without any prior notice.

Incorporation No.: 0423089 License No.: 42125/022010/1186 Registration No.: 430374 Import-Export Code: 1109007027 Employer Identification Number (EIN): USA Tax ID: 98-0673427

Global Journals Inc.

(A Delaware USA Incorporation with "Good Standing"; Reg. Number: 0423089)
Sponsors: Open Association of Research Society
Open Scientific Standards

Publisher's Headquarters office

Global Journals Headquarters

301st Edgewater Place Suite, 100 Edgewater Dr.-Pl, Wakefield MASSACHUSETTS, Pin: 01880,

United States of America

USA Toll Free: +001-888-839-7392 USA Toll Free Fax: +001-888-839-7392

Offset Typesetting

Global Journals Incorporated 2nd, Lansdowne, Lansdowne Rd., Croydon-Surrey, Pin: CR9 2ER, United Kingdom

Packaging & Continental Dispatching

Global Journals

E-3130 Sudama Nagar, Near Gopur Square, Indore, M.P., Pin:452009, India

Find a correspondence nodal officer near you

To find nodal officer of your country, please email us at *local@globaljournals.org*

eContacts

Press Inquiries: press@globaljournals.org
Investor Inquiries: investors@globaljournals.org
Technical Support: technology@globaljournals.org
Media & Releases: media@globaljournals.org

Pricing (Including by Air Parcel Charges):

For Authors:

22 USD (B/W) & 50 USD (Color) Yearly Subscription (Personal & Institutional): 200 USD (B/W) & 250 USD (Color)

Integrated Editorial Board (Computer Science, Engineering, Medical, Management, Natural Science, Social Science)

John A. Hamilton, "Drew" Jr.,

Ph.D., Professor, Management Computer Science and Software Engineering Director, Information Assurance Laboratory Auburn University

Dr. Henry Hexmoor

IEEE senior member since 2004
Ph.D. Computer Science, University at
Buffalo
Department of Computer Science
Southern Illinois University at Carbondale

Dr. Osman Balci, Professor

Department of Computer Science Virginia Tech, Virginia University Ph.D.and M.S.Syracuse University, Syracuse, New York M.S. and B.S. Bogazici University, Istanbul, Turkey

Yogita Bajpai

M.Sc. (Computer Science), FICCT U.S.A.Email: yogita@computerresearch.org

Dr. T. David A. Forbes

Associate Professor and Range Nutritionist Ph.D. Edinburgh University - Animal Nutrition M.S. Aberdeen University - Animal Nutrition B.A. University of Dublin- Zoology

Dr. Wenying Feng

Professor, Department of Computing & Information Systems
Department of Mathematics
Trent University, Peterborough,
ON Canada K9J 7B8

Dr. Thomas Wischgoll

Computer Science and Engineering, Wright State University, Dayton, Ohio B.S., M.S., Ph.D. (University of Kaiserslautern)

Dr. Abdurrahman Arslanyilmaz

Computer Science & Information Systems
Department
Youngstown State University
Ph.D., Texas A&M University
University of Missouri, Columbia
Gazi University, Turkey

Dr. Xiaohong He

Professor of International Business University of Quinnipiac BS, Jilin Institute of Technology; MA, MS, PhD,. (University of Texas-Dallas)

Burcin Becerik-Gerber

University of Southern California Ph.D. in Civil Engineering DDes from Harvard University M.S. from University of California, Berkeley & Istanbul University

Dr. Bart Lambrecht

Director of Research in Accounting and FinanceProfessor of Finance Lancaster University Management School BA (Antwerp); MPhil, MA, PhD (Cambridge)

Dr. Carlos García Pont

Associate Professor of Marketing
IESE Business School, University of
Navarra

Doctor of Philosophy (Management), Massachusetts Institute of Technology (MIT)

Master in Business Administration, IESE, University of Navarra Degree in Industrial Engineering, Universitat Politècnica de Catalunya

Dr. Fotini Labropulu

Mathematics - Luther College University of ReginaPh.D., M.Sc. in Mathematics B.A. (Honors) in Mathematics University of Windso

Dr. Lynn Lim

Reader in Business and Marketing Roehampton University, London BCom, PGDip, MBA (Distinction), PhD, FHEA

Dr. Mihaly Mezei

ASSOCIATE PROFESSOR
Department of Structural and Chemical
Biology, Mount Sinai School of Medical
Center

Ph.D., Etvs Lornd University Postdoctoral Training, New York University

Dr. Söhnke M. Bartram

Department of Accounting and FinanceLancaster University Management SchoolPh.D. (WHU Koblenz) MBA/BBA (University of Saarbrücken)

Dr. Miguel Angel Ariño

Professor of Decision Sciences
IESE Business School
Barcelona, Spain (Universidad de Navarra)
CEIBS (China Europe International Business
School).

Beijing, Shanghai and Shenzhen Ph.D. in Mathematics University of Barcelona BA in Mathematics (Licenciatura) University of Barcelona

Philip G. Moscoso

Technology and Operations Management IESE Business School, University of Navarra Ph.D in Industrial Engineering and Management, ETH Zurich M.Sc. in Chemical Engineering, ETH Zurich

Dr. Sanjay Dixit, M.D.

Director, EP Laboratories, Philadelphia VA Medical Center Cardiovascular Medicine - Cardiac Arrhythmia Univ of Penn School of Medicine

Dr. Han-Xiang Deng

MD., Ph.D
Associate Professor and Research
Department Division of Neuromuscular
Medicine
Davee Department of Neurology and Clinical

NeuroscienceNorthwestern University
Feinberg School of Medicine

Dr. Pina C. Sanelli

Associate Professor of Public Health
Weill Cornell Medical College
Associate Attending Radiologist
NewYork-Presbyterian Hospital
MRI, MRA, CT, and CTA
Neuroradiology and Diagnostic
Radiology
M.D., State University of New York at
Buffalo,School of Medicine and
Biomedical Sciences

Dr. Roberto Sanchez

Associate Professor
Department of Structural and Chemical
Biology
Mount Sinai School of Medicine
Ph.D., The Rockefeller University

Dr. Wen-Yih Sun

Professor of Earth and Atmospheric SciencesPurdue University Director National Center for Typhoon and Flooding Research, Taiwan University Chair Professor Department of Atmospheric Sciences, National Central University, Chung-Li, TaiwanUniversity Chair Professor Institute of Environmental Engineering, National Chiao Tung University, Hsinchu, Taiwan.Ph.D., MS The University of Chicago, Geophysical Sciences BS National Taiwan University, Atmospheric Sciences Associate Professor of Radiology

Dr. Michael R. Rudnick

M.D., FACP
Associate Professor of Medicine
Chief, Renal Electrolyte and
Hypertension Division (PMC)
Penn Medicine, University of
Pennsylvania
Presbyterian Medical Center,
Philadelphia
Nephrology and Internal Medicine
Certified by the American Board of
Internal Medicine

Dr. Bassey Benjamin Esu

B.Sc. Marketing; MBA Marketing; Ph.D Marketing
Lecturer, Department of Marketing,
University of Calabar
Tourism Consultant, Cross River State
Tourism Development Department
Co-ordinator, Sustainable Tourism
Initiative, Calabar, Nigeria

Dr. Aziz M. Barbar, Ph.D.

IEEE Senior Member
Chairperson, Department of Computer
Science
AUST - American University of Science &
Technology
Alfred Naccash Avenue – Ashrafieh

President Editor (HON.)

Dr. George Perry, (Neuroscientist)

Dean and Professor, College of Sciences

Denham Harman Research Award (American Aging Association)

ISI Highly Cited Researcher, Iberoamerican Molecular Biology Organization

AAAS Fellow, Correspondent Member of Spanish Royal Academy of Sciences

University of Texas at San Antonio

Postdoctoral Fellow (Department of Cell Biology)

Baylor College of Medicine

Houston, Texas, United States

CHIEF AUTHOR (HON.)

Dr. R.K. Dixit

M.Sc., Ph.D., FICCT

Chief Author, India

Email: authorind@computerresearch.org

DEAN & EDITOR-IN-CHIEF (HON.)

Vivek Dubey(HON.)

MS (Industrial Engineering),

MS (Mechanical Engineering)

University of Wisconsin, FICCT

Editor-in-Chief, USA

editorusa@computerresearch.org

Sangita Dixit

M.Sc., FICCT

Dean & Chancellor (Asia Pacific) deanind@computerresearch.org

Suyash Dixit

(B.E., Computer Science Engineering), FICCTT President, Web Administration and Development, CEO at IOSRD COO at GAOR & OSS

Er. Suyog Dixit

(M. Tech), BE (HONS. in CSE), FICCT

SAP Certified Consultant

CEO at IOSRD, GAOR & OSS

Technical Dean, Global Journals Inc. (US)

Website: www.suyogdixit.com Email:suyog@suyogdixit.com

Pritesh Rajvaidya

(MS) Computer Science Department

California State University

BE (Computer Science), FICCT

Technical Dean, USA

Email: pritesh@computerresearch.org

Luis Galárraga

J!Research Project Leader Saarbrücken, Germany

CONTENTS OF THE ISSUE

- i. Copyright Notice
- ii. Editorial Board Members
- iii. Chief Author and Dean
- iv. Contents of the Issue
- Isosorbide Mononitrate and Misoprostol for Cervical Ripening in Induction of Labor. 1-5
- 2. Hematocolpos Sur Imperforation Hymeneale a Propos De 3 Cas. 7-11
- 3. Ewing Sarcoma of Ovary-An Unusual Presentation. *13-15*
- 4. Rising Trend of Caesarean Section in Rural India: A Prospective Study. 17-20
- v. Fellows
- vi. Auxiliary Memberships
- vii. Process of Submission of Research Paper
- viii. Preferred Author Guidelines
- ix. Index



GLOBAL JOURNAL OF MEDICAL RESEARCH: E GYNECOLOGY AND OBSTETRICS

Volume 15 Issue 4 Version 1.0 Year 2015

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals Inc. (USA)

Online ISSN: 2249-4618 & Print ISSN: 0975-5888

Isosorbide Mononitrate and Misoprostol for Cervical Ripening in Induction of Labor

By Mohamad Elsokary, Mohamad Abdelhamed & Emad Mohamad

Ain Shams University, Egypt

Abstract- Background: The most favorable method for cervical ripening is not fully agreed upon by practitioners; however, isosorbide mononitrate administration is considered a low-risk method of labor induction for pregnant women at full term.

Objective: To evaluate the safety and effectiveness of adding isosorbide mononitrate to misoprostol for cervical ripening in prelabor induction of full term pregnant women in comparison with misoprostol alone. Design: Randomized study.

Setting: Ain Shams Maternity teaching hospital. Patients and methods: 120 women were divided randomly into two equal arms of 60 women in each one.

Intervention: Patients admitted through the reception room or out patient clinic and they scheduled for induction of labor. Group I were given intravaginal isosorbide mononitrate with misoprostol while group II were given placebo with misoprostol intravaginally.

Keywords: isosorbide mononitrate; misoprostol; cervical ripening; induction of labor.

GJMR-E Classification: NLMC Code: WP 475



Strictly as per the compliance and regulations of:



© 2015. Mohamad Elsokary, Mohamad Abdelhamed & Emad Mohamad. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Isosorbide Mononitrate and Misoprostol for Cervical Ripening in Induction of Labor

Mohamad Elsokary a, Mohamad Abdelhamed & Emad Mohamad P

Abstract- Background: The most favorable method for cervical ripening is not fully agreed upon by practitioners; however, isosorbide mononitrate administration is considered a low-risk method of labor induction for pregnant women at full term.

Objective: To evaluate the safety and effectiveness of adding isosorbide mononitrate to misoprostol for cervical ripening in prelabor induction of full term pregnant women in comparison with misoprostol alone. Design: Randomized study.

Setting: Ain Shams Maternity teaching hospital. Patients and methods: 120 women were divided randomly into two equal arms of 60 women in each one.

Intervention: Patients admitted through the reception room or out patient clinic and they scheduled for induction of labor. Group I were given intravaginal isosorbide mononitrate with misoprostol while group II were given placebo with misoprostol intravaginally.

Results: Group I showed better significant improvement than Group II in Bishop score after 6 hour (7.9 vs 6.6, p=0.001), shorter duration of active phase (8.2 vs 10.9h, p=0.001), as well as the duration of labor (12 vs 17.1h, p=0.001) in group I comparing to group II. The main side effect of IMN was headache.

Conclusion: The addition of Isosorbide mononitrate to misoprostol is safe and increase the effectiveness of preinduction cervical ripening in comparison to misoprostol alone. Keywords: isosorbide mononitrate; misoprostol; cervical ripening; induction of labor.

I. Introduction

nduction of labour has increased dramatically over the past two decades1. Indications for induction of labor are either maternal (pre-eclampsia, pregnancyinduced hypertension) or fetal (post-term dates, growth retardation, ruptured membranes, diabetes)².

Nitric oxide (NO) is an apocrine hormone, synthesized in the cell by oxidation of L. arginine through the enzyme Nitric oxide synthase³. In human, it is involved in many physiological and pathological processes. It stimulates cyclo-oxygenase II which is involved in prostaglandin synthesis⁴.

In contrast to prostaglandins, nitric oxide donors inhibit rather than stimulate uterine contractions, and promote rather than restrict uterine blood flow³. Therefore, nitric oxide donors appear to be the ideal

Author α σ: Department of obstetrics and gynecology Ain Shams University Maternity Hospital.

e-mail: mohammedelsokkary1@yahoo.com Author p: General Hospital of Sohag.

cervical ripening agent⁵ for outpatient use. It also results in fewer adverse effects like headache, hot flushes, nausea, dizziness and abdominal pain but is less effective than misoprostol⁶.

II. Patients and Methods

This randomized, double-blind, controlled study was carried out on 120 full term pregnant women admitted for induction of labor in Ain Shams University Maternity Hospital from January 2011 to December 2012. The study was approved by the research Ethics Committee of Ain Shams University Maternity Hospital, Cairo, Egypt. Informed consent was obtained from each participant, after they were fully informed about the nature and scope as well as the potential risks of the study before the first application of the medication.

Justification of the sample size

Using 90% power, α error 0.05, standard deviation 3 and case to control ratio 1:1, a sample size of 60 women was calculated to detect a difference of at least 20% between the two groups.

Patients were divided randomly into two groups, Group A included 60 patients were induced by intravaginal isosorbide mononitrate (Effox 40 mg MINAPHARM) in addition to misoprostol (50 mcg), Group B included 60 patients induced by placebo in addition to misoprostol (50 mcg) administered in the posterior vaginal fornix.

Inclusion criteria included being a Primipara with single viable post-term cephalic pregnancy, Bishop score of ≤ 5 , average liquor, intact membrane, average size of the fetus, and absence of pelvic contraction Exclusion criteria included Bishop's score ≥6, rupture of membranes, suspected chorioamnionitis, placenta previa or unexplained vaginal bleeding, uterine scar, hypertonic uterine contraction pattern, soft tissue obstruction, medical disorders eg diabetes mellitus, renal or hepatic dysfunction, fetal malpresentations, multiple pregnancies, and intrauterine growth retardation (<5th percentile).

All patients were subjected to history taking that included a complete personal, medical, and a detailed obstetric history, in addition to a menstrual, and contraceptive history, with emphasis on the date of the last menstrual period to determine the exact gestational age.

General examination included recording the vital signs as blood pressures, pulse, temperature, respiratory rate, chest and heart examination.

Abdominal examination included estimation of the fundal level, Leopold maneuvers and fetal heart rate.

Vaginal examination was done every 4 hours to all patients to evaluate the Bishop score.

Table (1): Bishop score (points assigned).

Factors	Rating				
raciois	0	1	2	3	
Dilatation	Closed	1-2 cm	3-4 cm	5 cm	
Effacement	0-30%	40-50%	60-70%	80%	
Station	-3	-1, -2	-1, 0	+1, +2	
Consistency	Firm	Medium	Soft	-	
Position	Posterior	Middle	Anterior	-	

Unfavorable cervix Bishop score ≤ 5

For all patients, sonar examination was done to exclude any abnormality of the fetus and to ensure the gestational age, and the amniotic fluid index.

The drugs were available in dark envelopes. An attending nurse selected an envelope that contains the medication for each patient. The patients were assigned to receive intravaginal IMN and misoprostone (Group A) or misoprostol and placebo (Group B). Examination of the patients was done by the residents, Each resident followed up his patient and data were documented on a partogram. For each patient. Preinduction external monitoring by Cardio tocography was done. Uterine contractions and fetal heart rate were checked every 30 minutes. A second and a third dose of the medications were given if the Bishop score was < 6 after 6 hours.

On repeated examinations after giving the medications, cases with favorable cervices (Bishop's score \geq 6 with cervical dilation \geq 4cm) were subjected to artificial rupture of membranes (AROM) and according to the presence or absence of meconium the following interventions were performed:

- If liquor was clear (i.e. no meconium), induction of labor was started by oxytocin drip using titration method with fetal heart rate monitoring.
- b. If liquor was stained with thin meconium (i.e., mild degree), fetal heart rate monitoring was done for 30 minutes
- c. If liquor was deeply stained (i.e., sever degree), cesarean section was done to avoid meconium aspiration syndrome and fetal anoxia.

Oxytocin infusion was given when cervical dilatation is 3 cm. IV drip of 5 units in 500 ml of Ringer solution were started. Infusion rate was increased (by doubling drops/min) every 30 min until 3 contractions occurred every 10 minutes and each lasting for 45-60 seconds. If 60 drops/min was reached with no efficient contractions, infusion was increased by administrating 10 units oxytocin in 500 ml Ringer solution.

Assessment of uterine contractions was done every 30 minutes to ensure adequate contractions (3-5 contractions in 10 minutes each lasts for 45-60 seconds).

Both groups were compared regarding:

- Age, parity, gestational age.
- Time from start of medication to first contraction
- Time from start of AROM \pm oxytocin to active phase of labor.
- Duration of 1st, 2nd and 3rd stage of labor, and mode of delivery.
- Maternal complications e.g., hyperstimulation, postpartum hemorrhage, headache, vomiting and dizziness.
- Neonatal outcome including Apgar score at 1 and 5 minutes and Neonatal Intensive Care Unit admission were recorded.

b) Statistical Methods

Statistical analysis was done using the SPSS software for windows, version 17 (SPSS, Chicago, IL, USA). The paired t test for independent samples was used for comparisons between means. The Chi-square test (x2 test) was used for analysis of the qualitative variables. P<0.05 was considered significant.

III. Results

Table (2) shows that, there is no statistical significant difference between the two groups as regards mean age, gestational age, or mean initial bishop score. There is a higher bishop score after 6 hours among cases in group I compared to cases in group II and the difference is statistically significant. There is a shorter duration of the active phase of delivery and labor in group I compared to group II and the difference is highly significant. There is no statistical significant difference between the two groups as regards the mean weight of infants or the Apgar score at 1 and 5 minutes.

Table 2: Comparison between both groups as regard the descriptive data.

Variable	Group I n = 60 Mean ± SD	Group II N = 60 Mean ± SD	Т	Р
Age(years)	22.6 ± 2.0	21.9 ± 2.0	1.7	0.07
Gestational age(wks)	40.1 ± 0.8	40.3 ± 0.3	1.8	0.06
Initial bishop	3.8 ± 0.6	3.5 ± 0.6	1.8	0.06
Bishop score after 6h	7.9 ± 0.6	6.6 ± 0.7	10.6	0.00*
Mean duration of active phase(h)	8.2±1.3	10.9 ± 1.2	12.1	0.00*
Mean duration of labor(h)	12±2.9	17.1± 2.3	10.7	0.00*
Neonatal Weight (gms)	2952.1 ± 173.3	2955.0 ± 236.0	0.07	0.9
Apgar 1 minute	7.5 ± 1.1	7.2 ± 1.2	1.7	0.07
Apgar 5 minutes	9.2 ± 0.5	9.3 ± 0.6	0.4	0.6

Table (3) shows that there is no significant difference between the two groups as regards oxytocin requirementsor the indication of C.S There is no statistical significant difference between the two groups as regards indication for C.S. There is a higher percentage of C.S delivery, nausea and shivering in group II compared to group I but the difference is not statistically significant.

Table 3: Comparison between both groups as regard the mode of delivery and requirement for oxytocin.

Variable		Group I n =60 n. (%)		Group II n =60 n. (%)		X2	Р
Requirement for	r ovatooin	11.	(70)	11.	(70)		
nequirement to							
	Required	19	(30)	25	(40)	10.3	0.08
	Not required	41	(70)	35	(60)		
Mode of deliver	y Indication for CS						
	VD	54	90.0	49	81.7		
	CS	6	10.0	11	18.3	1.7	0.1
	Arrest of cervical dilatation	3	(5)	5	(8.3)		
	Fetal distress	3	(5)	5	(8.3)	2.2	0.5
	Failed induction	0	(0)	1	(1.7)		

Table (4) shows that, there is a higher incidence of side effects and headache in group I compared to group II and the difference is statistically significant. There is no statistical significant difference between the two groups as regards the incidence of PPH or retained placenta. There was no need for ICU admission. Higher percentage of uterine contraction abnormalities in group I 15% compared to 11.7% in group II but the difference is not statistically significant.

Table 4: Comparison between both groups as regard drugs side effects.

Variable	Group I		Group II		Т	Р
Adverse side effects	28	(46.7)	17	(28.3)	4.3	0.03*
Headache	22	(36.7)	5	(8.3)	13.8	0.000
Nausea	2	(3.3)	7	(11.7)	3.0	0.1
Shivering	4	(6.7)	5	(8.3)	0.1	0.7
PPH	0	(0)	1	(2)	2.041	0.153

Variable	Group I		Group II		Т	Р
Retained placenta	1	(1.8)	0	(0)	1.042	0.307
ICU admission	5	8.3	5	8.3	0.0	1.0
Hypersystole	3	5.0	2	3.3		
Tachysystole	5	8.3	4	6.7	0.3	0.9
Hyper stimulation	1	1.7	1	1.7		

IV. DISCUSSION

Several studies postulated that a combination between misoprostol and IMN might improve induction success rates while reducing side effects associated with misoprostol⁷.

In the current study, the difference in the mean duration of the active phase in group I versus group II was statistically significant. The interval from the beginning of induction to the time of delivery was shorter in group I than in group II. These results agreed with another study⁸, which reported that the association of NO donor glyceryl trinitrate (GTN) (500 mg/kg) with dinoprostone (2 mg) was more effective than dinoprostone alone for cervical ripening and labor induction at term. In agreement with our results, similar study⁹, had found significantly shorter interval from the beginning of induction to the time of delivery in misoprostol and IMN group versus misoprostol group $(19.56 \pm 3.96 \text{ versus } 23 \pm 2.62 \text{ P} \le 0.001)$., and agreed with a study 10, which had found the time from start of medication to vaginal delivery in IMN group was significantly longer (25.6 \pm 6.1 versus 14 \pm 6.9 hrs).

These findings disagreed with another study¹¹, which showed that vaginal application of IMN plus dinoprostone appeared to be no more effective than placebo plus dinoprostone for cervical ripening and labor induction at term suggesting a different effectivity of IMN depending on the gestational age in this study, also these results disagreed with a study⁷, which reported that, the time from start of induction to vaginal delivery not reduced when IMN was added to misoprostol, might be due to the relaxing effect of IMN on the uterine fundus. The findings could possibly be explained by the differences in parity of patients, mean gestational age at delivery and the indication for the induction of labour.

In the current study, the difference in Bishop score after 6 hours of medication in group I versus group II was statistically significant, this coincided with similar study¹², which found The mean initial modified Bishop's score for Group I was 2.8 then Bishop's score became 3.9, 4.1, 5.1, 5.9 after 2, 4, 6, 8 hours, respectively indicating significant improvement in the modified Bishop's score This improvement may be related either to the inflammatory mechanisms associated with IMN involving vasodilatation, to altered vascular permeability and neutrophils influx into cervical tissues leading to cervical ripening and changes in

cervical consistency, but these findings disagreed with another study¹³, which failed to demonstrate an improvement in the mean Bishop score following IMN despite showing clinical effectiveness in shortening labor, also disagreed with a recent study 8, This may be due to different type and dose of drug to our study.

There is a higher percentage of occurrence of side effects and headache in group I compared to group II and the difference is statistically significant and can be explained by vasodilatation effect of (NO) donors these complications were minimal and self limited and needed no medical interference, this agreed by other studies^{5,7,11}.

In the present study both groups were similar with no significant statistical difference regarding mean maternal age, gestational age. Also there was no statistical significant difference between both groups as regard the birth weight, Apgar score at 1 and 5 minutes and the need for neonatal ICU admission, This result coincided with other studies^{8,9}. These results were higher in GTN group but did not reach the level of statistical significance.

In the present study, there was no significant difference between both groups as regards the incidence of uterine hypersystole, tachysystole and hyperstimulation. These results coincided with another study⁹, which found no significant difference between 2 groups in the incidence of uterine hypersystole, tachysystole and hyperstimulation. But these results disagreed with similar study 14, which had found that GTN is safer, but less effective, compared with prostaglandins for pre induction cervical ripening at term.

In the present study as regards the C.S rate there was no significant difference between the 2 groups, This result coincided with a study⁷, which concluded that no significant difference between 2 groups as regards the C.S rate, But this study disagree with another study¹⁰ who found dystocia was more frequent in IMN 9 (45%) versus, 6 (37.5%) in misoprostol group while non reassuring FHR in IMN group was 3 (15%) versus, 9 (56.3%) in misoprostol group.

V. Conclusion and Recommendations

Isosorbide mononitrate plus misoprostol is safe and more effective for pre-induction cervical ripening in comparison to misoprostol alone.

VI. ACKNOWLEGMENT

The authors would like to acknowledge Emad Mohammed, Resident in General Hospital of Sohag, Egypt as the study is a part of his Master degree thesis.

References Références Referencias

- 1. Richardson A and Mata C. NHS Maternity Statistics, England: 2005-06.London: National Statistics, The Information Centre 2007.
- 2. Mol B. Conference of clinical management of problems in uterine contractility, 17-18 September 21010, Hilton Metropol, Bimingham.
- 3. Grozdanovic Grozdanovic Z, Mayer B, Baumgartep H C and Burnung G. NO synthase-containing nerve fibers and neurons in genital tract of the female mouse. Cell tissue Res1994; 275: 355-360.
- 4. Chwalisz K and Grafield RE. Nitric oxide as the final mediator of cervical ripening. Human Record 1998; 13: 245-52.
- 5. Hbib Habib SM, Emam SS and Saber AS. Outpatient cervical ripening with nitric oxide donor isosorbide mononitrate prior to induction of labor. Int J Obstet Gynecol 2008:101(1): 57-61.
- 6. Cunningham FG, Leveno KJ and Bloom SL. Induction of labor, in Williams Obstetrics, 22nd Edition; McGraw Hill 2005; 231-51; 537.
- 7. Collingham JP, Fuh KC and Caughey AB. Oral misoprostol and vaginal isosorbide mononitrate for labor induction: a randomized controlled trial. Obstet Gynecol 2010; 116(1): 121-6
- 8. Nunes FP, Campos AP, Pedroso SR, et al. Intravaginal glyceryl trinitrate and dinoprostone for cervical ripening and induction of labor. Am J Obstet Gynecol 2006 Apr; 194(4):1022-6.
- 9. Abdellah MS, Hussien MS and AboAlhassn AH. Intravaginal administration of IMN and misoprostol for cervical ripening and induction of labor, Arch Gynaecol Obstet 2011, 284, 1: 25-30.
- 10. Chanrachakul B, Herabutya Y and Punyavachira P. Randomized comparison of glyceryl trinitrate and prostaglandin E2 for cervical ripening at term. Obstet Gynecol 2000; 96: 549-553.
- 11. Wolfier MM, Facchinetti F, Venturini P, Huber A, Helmer H, et al. Induction of labor at term using isosorbide mononitrate simultaneously dinprostone compared to dinoprostone treatment alone. Am J Obstet Gynecol 2006; 195: 1617-22.
- 12. Sherif H, ahmed M, Amgad A. comparison between misprostol and isopronide mononitrate and misoprostol in preinduction cervical repair. Obstet Gynecol 2009; 35:0258-3216
- 13. Bollapragada SS, Mackenzie F, Norrie JD, Eddama O, Petrou S and Ried M. Randomized placebocontrolled trial of outpatient (at home) cervical ripening with isosorbide mononitrate (IMN). The

- IMOP study. Br J Obstet Gynecol: 2009: 116(9): 1185-95.
- 14. Sharma Y, Kumar S, Mittal S, Misra R and Dadhwal V Evaluation of glyceryl trinitrate, misoprostol, and prostaglandin E gel for preinduction cervical ripening in term pregnancy. J Obstet Gynecol Res 2005, 31: 210-215.

This page is intentionally left blank



GLOBAL JOURNAL OF MEDICAL RESEARCH: E GYNECOLOGY AND OBSTETRICS

Volume 15 Issue 4 Version 1.0 Year 2015

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals Inc. (USA)

Online ISSN: 2249-4618 & Print ISSN: 0975-5888

Hematocolpos Sur Imperforation Hymeneale a Propos De 3 Cas

By Dr. Ramsiss. H., Dr. Harrak. H., Pr. Amrani. S., Pr. Elyoussfi. M., Pr. Benyahya & Pr. Bargach. S

Resume- L'imperforation hymenéale est une malformation assez rare, et grave lorsqu'elle est ignorée. En se basant sur les données de la littérature concernant cette malformation, on a réalisé une étude rétrospective portant sur 3 cas d'hématocolpos sur hymen imperforé, colligés au service de gynécologie obstétrique cancérologie et grossesse à haut risque de la maternité Souissi de Rabat (MAROC), sur une période allant de janvier 2011 à janvier 2014.

Il ressort de ce travail que cette anomalie est l'apanage des patientes en période péri pubertaire.

L'éventail des signes cliniques est dominé par les douleurs abdominopelviennes; l'existence d'une tumefaction abdomino-pelvienne chez toutes nos patientes et par des complications urinaires a type de rétention aigue d'urine chez une de nos 3 cas.

Le diagnostic est surtout clinique il est orienté par l'échographie.

L'imperforation hym²énéale reste l'étiologie la plus fréquente, elle est retrouvée chez nos 3 malades, Le traitement chirurgical est simple porté sur une incision de la membrane obturante, et un drainage de la collection.

GJMR-E Classification: NLMC Code: WQ 252



Strictly as per the compliance and regulations of:



© 2015. Dr. Ramsiss. H., Dr. Harrak. H., Pr. Amrani. S., Pr. Elyoussfi. M., Pr. Benyahya & Pr. Bargach. S. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creative commons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Hematocolpos Sur Imperforation Hymeneale a Propos De 3 Cas

Dr. Ramsiss. H. a, Dr. Harrak. H. b, Pr. Amrani. S. P, Pr. Elyoussfi. M. Dr. Benyahya & Pr. Bargach. S s

Resume- L'imperforation hymenéale est une malformation assez rare, et grave lorsqu'elle est ignorée. En se basant sur les données de la littérature concernant cette malformation, on a réalisé une étude rétrospective portant sur 3 cas d'hématocolpos sur hymen imperforé, colligés au service de avnécologie obstétrique cancérologie et grossesse à haut risque de la maternité Souissi de Rabat (MAROC), sur une période allant de ianvier 2011 à ianvier 2014.

Il ressort de ce travail que cette anomalie est l'apanage des patientes en période péri pubertaire.

L'éventail des signes cliniques est dominé par les douleurs abdominopelviennes; l'existence d'une tuméfaction abdomino-pelvienne chez toutes nos patientes et par des complications urinaires a type de rétention aigue d'urine chez une de nos 3 cas.

Le diagnostic est surtout clinique il est orienté par l'échographie.

L'imperforation hym²énéale reste l'étiologie la plus fréquente, elle est retrouvée chez nos 3 malades. Le traitement chirurgical est simple porté sur une incision de la membrane obturante, et un drainage de la collection.

Concernant l'évolution de nos patientes, jugée sur l'état fonctionnel et morphologique, une guérison complète a été obtenue chez nos trois patientes sans rechute.

I. Introduction

'imperforation hyménéale est une affection relativement rare, mais la plus fréquente des malformations congénitales du tractus génital féminins (1). Elle est souvent isolée(2),

La cryptoménorrhée douloureuse imperforation hyménéale parapubertaire est le tableau révélateur le plus classique(3). Des symptômes non gynécologiques égarent parfois le diagnostic.

L'imperforation hyménéale est de diagnostic facile grâce à l'inspection des organes génitaux externes, L'échographie a simplifié l'analyse de cette pathologie rare, et constitue la meilleure méthode de diagnostic précoce grâce à l'échographie in utéro.

L'hyménéotomie est le traitement l'hématocolpos par imperforation hyménéale. Pour les hématocolpos révélateurs des malformations. le traitement de la malformation causale est plus complexe.

Le diagnostic et le traitement précoce de l'imperforation hyménéale est important afin d'éviter toutes séquelles tubaires.

Author $\alpha \sigma \rho \omega \notin \S$: Service De Gynecologie Obstetrique Cancerologie Et Grossesse A Haut Risque. Maternite Souissi, Rabat, Maroc. e-mails: ramsisshanan@yahoo.fr, hanan.aygo@gmail.com

Dans notre travail on rapporte une série de 3 imperforations hyménéales.

II. Observations

Cas num 1

Patiente de 14 ans, est adressée par le service de pédiatrie de l'hopital d'enfant de Rabat pour un tableau d'abdomen aigu avec la notion de douleurs cycliques depuis trois mois. Elle n'a pas eu sa ménarche, mais présente des caractères sexuels développés (seins à S4 et pilosité pubienne à P5). L'examen a montré un léger bombement de l'hymen et de la cloison recto-vaginale (photo1). L'échographie a mis en évidence un hématocolpos (photo 2). L'incision chirurgicale de l'hymen a permis de vider 500 millilitres de sang noirâtre. L'évolution est favorable lors de l'examen de suivi de la patiente après trois semaines. Un certificat médicolégal de perte de virginité médical est donné à la famille.





une échographie montrant une volumineuse collection rétro-vésicale en

Photo 1

faveur d'un hématocolpos

Photo 2

b) Cas num 2

Patiente de 13 ans admise aux urgences pédiatriques de l'hôpital d'enfant de Rabat pour douleur pelvienne remontant a 4 jours avant son admission compliquée de rétention aigue d'urine depuis 12h à l'examen abdominal et pelvien on note la présence d'une masse pelvienne de 10cm rénitente mobile par rapport aux deux plans avec un globe vésicale .un bon développement des organes génitaux externes et des caractères sexuels secondaires avec un hymen bleuâtre et bombant (photo imperforé 3).Une échographie réalisée en urgence a montrer un hematocolpos avec hematosalpinx droit .puis nous a été référée pour prise en charge chirurgicale une incision en y de l'hymen avec drainage de 400 cc de sang noirâtre plicature des lambeaux au vicryl 5(0) a la paroi mise en place d'une sonde vesicale 18ch dans le vagin pendant 10 jours .une évolution sans sténose .l'orifice a été dilaté une fois par semaine pendant 1 mois puis une fois par quinze jours puis une tous les trois mois . Un certificat médicolégal de perte de virginité médical est donné à la famille.



Photo 3



Photo 4

évacuation d'un sang noirâtre de la collection

Cas num 3

Patiente de 13 ans admise aux urgences de la maternite Souissi pour douleur pelvienne cyclique depuis 6 mois avec exacerbation de la douleur depuis 15 jours sans signes urinaires avec masse pelvienne de 11 cm, a l'échographie l'utérus est en place mesurant 6,8/4,35 réguliers avec rétention liquidienne endocavitaire finement échogéne communiquant via l'orifice cervical , collection retro vésicale finement échogéne a paroi épaissie de 8,5/6,6cm.

Incision en Y. drainage de 450cc de sang noirâtre (photo 4), passage d'une sonde dans le vagin L'évolution est satisfaisante, on a réalisé une dilatation aux 10ème jours après sa sortie 1 fois / semaine, puis 1 fois / 15 jours, puis 1 fois / mois. Un certificat médicolégal de perte de virginité médical est donné à la famille.

III. RESULTATS ET DISCUTION

L'hvmen est un reliquat mésodermique qui se perfore normalement pendant les dernières étapes du développement embryonnaire (4). L'imperforation hyménéale est un incident rare estimé à 1 pour 2000 naissances féminines (4,5). L'incidence rapportée par la littérature est largement variable, selon qu'on apprécie de façon globale, selon l'âge ou selon le type de la lésion anatomique (6). Dans les cas typiques, l'âge de découverte de l'hématocolpos est entre 12 et 15 ans (l'âge de la ménarche) (7 ; 8). Dans notre série qui comporte 3 cas d'hématocolpos, l'âge de nos malades varie entre 13 et 14 ans (la periode pubertaire).

La majorité des cas rapportés dans la littérature sont sporadiques, néanmoins, quelques cas familiaux ont été décrits laissant présumer d'une prédisposition génétique probable (5,9).

Aucune parmi les patientes que nous avons présentées n'a d'antécédents familiaux d'imperforation hyménéale.

Le diagnostic d'imperforation hyménéale est possible in utéro devant la constatation à l'échographie d'un hydrométrocolpos (10, 11). Le diagnostic in utéro présente en plus l'intérêt de rechercher malformations rénales associées. Ce diagnostic peut se faire par un dépistage systématique à la naissance mais aussi devant un hydrométrocolpos lors de la crise génitale du nouveau-né de sexe féminin (12). Le plus souvent, cette malformation est découverte à la puberté. Le diagnostic doit être suspecté devant une jeune fille présentant une aménorrhée primaire avec caractères sexuels secondaires normalement développés.

Les patientes consultent généralement pour des douleurs pelviennes récurrentes secondaires à l'accumulation du sang dans le vagin ou hématocolpos (13). Le caractère cyclique des crises douloureuses peut manguer étant donné l'irrégularité habituelle du cycle menstruel au cours de la période péripubertaire (14). Les douleurs peuvent être trompeuses, pseudoappendiculaire et induire des interventions 'en excès' suspicion d'appendicite aique (15).L'hématocolpos peut comprimer l'urètre et être à l'origine d'une dysurie, d'une rétention vésicale complète voire d'une urétéro-hydronéphrose bilatérale (13,16,17,18,19,20) Einsenberg (21) a rapporté à travers une série de 44 observations d'hématocoplos, 7 cas de rétention vésicale. La constipation relève du même mécanisme compressif (22). Dans notre série toutes les patientes n'étaient pas encore ménarche. Toutes les malades ont un bon développement des organes génitaux externes, des caractères sexuels et secondaires.

Deux patientes ont présenté des douleurs cycliques auparavant La douleur abdomino-pelvienne a dominé le tableau fonctionnel, elle a été observée dans

tous les cas. 1 de nos malades a rapporté des signes urinaires à type de rétention aigue des urines. Aucune de nos malades n'a présenté des signes de compression vasculaire, nerveuse ou digestive.

Le sang est retenu d'abord dans le vagin, puis l'utérus (hématométrie) et éventuellement les trompes. Son volume varie d'une patiente à une autre et peut même atteindre 3 litres (9). Le flux menstruel rétrograde peut altérer les trompes ou entraîner des lésions d'endométriose qui peuvent entraver la fertilité ultérieurement (23). Toutefois, cette éventualité est rare si le diagnostic est établi précocement et la fertilité est généralement conservée (24,Le diagnostic clinique de cette malformation est le plus souvent facile. L'examen de l'abdomen met en évidence une tuméfaction sus-pubienne ovalaire, à grosse extrémité supérieure, aux contours réguliers, de consistance fluctuante ou rénitente, sensible, mate à la percussion, et plongeant en bas derrière la symphyse pubienne. L'inspection de la vulve permet de reconnaître l'imperforation en montrant une membrane translucide bleutée faisant saillie entre les petites lèvres. Le toucher rectal perçoit une tuméfaction médiane, antérieure, de consistance liquidienne, rénitente, se prolongeant avec la masse abdominale et descendant à proximité du sphincter anal.

Dans notre série L'examen génital montre l'existence d'une imperforation hyménéale avec un hymen imperforé bombant chez les 3 malades. la palpation a pu objectiver l'existence d'une masse chez toutes les patientes En cas de doute diagnostique, l'échographie peut être utile en montrant l'hématocolpos sous la forme d'une image médiane, rétrovésicale de liauidienne contenant quelques hétérogènes. Elle permet aussi d'apprécier le retentissement en amont de la rétention menstruelle en recherchant une hématométrie, un hématosalpinx et un épanchement intraabdominal (27). L'IRM prend place dans l'exploration des masses pelviennes et des malformations utéro-vaginales. Ces avantages sont surtout valables en cas de difficulté de diagnostic échographique.

L'UIV est réalisée devant des signes échographiques évoquant.

La coelioscopie permet d'établir un bilan lésionnel précis du retentissement en amont et de traiter une éventuelle endométriose ainsi que les adhérences périannexielles secondaires à l'inflammation chronique (10). Elle est surtout indiquée en cas d'hématocolpos important faisant craindre un retentissement en amont (10,11,12,28).

Dans notre étude l'échographie abdominopelvienne a été réalisée chez toutes les malades, l'échographie était complémentaire au diagnostic confirmer cliniquement. Elle a permis de mettre en évidence une collection liquidienne utérine et intra vaginale en faveur d'un hématocolpos. Le traitement est chirurgical .Les objectifs de ce traitement sont :

- · Rétablir la perméabilité du tractus génital.
- · Assurer une fonction sexuelle normale.
- · Tenter de préserver la fertilité ultérieure.

Il doit être entrepris dans tous les cas, il ne faut guère compter sur la régression spontanée des retentions. L'abstention, même dans les formes légères, risquerait de laisser s'installer une infection génitale et urinaire, plus fréquemment rencontrées dans les formes dépistées tardivement.

Le traitement se limite dans un grand nombre des cas au simple drainage de la poche en rétention.

L'excision circonférencielle totale de l'hymen risque d'entraîner une sclérose et une dyspareunie orificielle 29). Elle est donc (28. à éviter. L'hyménéotomie doit permettre un écoulement menstruel normal en essayant de respecter autant que possible la virginité de ces jeunes patientes surtout dans notre contexte social et d'assurer une vie sexuelle ultérieure normale en évitant la resténose. Pour cela, il faut respecter les orifices des glandes de Bartholin à 5 heures et à 7 heures et inciser à 11 heures en position gynécologique afin de libérer la berge inférieure du méat urinaire et d'assurer une désolidarisation méatohyménéale. Plusieurs techniques chirurgicales sont proposées dans la littérature. Salvat (30) recommande la technique des incisions hyménéales radiaires étoilées qui est simple mais qui ne garantit pas la virginité. Une autre technique a été décrite par Ali et al (31). Elle consiste à exciser une petite collerette centrale de l'hymen à travers laquelle on introduit une sonde de Foley. Le ballonnet de la sonde est gonflé à 10 cm3. Cette sonde est ensuite retirée après 2 semaines. Cette technique nous a parue intéressante, car simple, moins invasive que les autres méthodes et préserve l'architecture normale de l'hymen. Le seul inconvénient relatif à cette technique est la gêne secondaire au port de la sonde pendant 2 semaines. Les résultats de cette technique sont plutôt encourageants : seules deux patientes sur 65 ont présenté une sténose hyménéale secondaire dans la série de Acar (31). Dans tous les cas, un contrôle clinique postopératoire doit être systématique pour vérifier l'absence de sténose secondaire,

Ceci dit, le meilleur traitement reste préventif, basé sur un diagnostic précoce de la malformation et sur une chirurgie entreprise après développement des organes génitaux mais avant l'apparition l'hématocolpos.

Dans notre série les 3 malades ayant un hématocolpos sur une imperforation hyménéale ont bénéficié d'une incision de l'hymen en Y. l'évacuation de la collection hématique, et un drainage par une sonde laissée en place pendant 1 semaine à 10 jrs était de principe.

Toutes les patientes ont été mises sous une biantibiothérapie, les soins locaux pluriquotidiens, des séances de dilatation en fonction de l'évolution.

L'évolution dans les 3 cas d'imperforation hvménéale. était satisfaisante sans sténose post opératoire.

IV. Conclusion

Les imperforations hyménéales regroupent un ensemble de malformations génitales. C'est une affection souvent bénigne, d'évolution favorable, si elle est diagnostiquée et traitée précocement. A l'inverse sa méconnaissance, expose à des complications graves, menacant le pronostic vital et compromettant sérieusement son avenir obstétrical. L'échographie reste l'examen de choix pour confirmer le diagnostic, et permet d'identifier un possible retentissement en amont et d'éventuelles anomalies urogénitales associées.

Le dépistage systématique à la naissance, et un traitement précoce sont les meilleurs garants de prévention des complications de cette pathologie Nous avons observé 3 hématocolpos secondaires à la méconnaissance d'un hymen imperforé. Les salles d'accouchement dans nos pays ne pouvant être accompagnées de pédiatres, l'information des sagesfemmes, insistant sur l'examen systématique des nouveau-nés, permettra de reconnaître, à la naissance, les malformations, dont l'imperforation de l'hymen. Cela éviterait des situations d'urgence qui favorisent parfois des traitements inappropriés

Le traitement est exclusivement chirurgical et les voies d'accès diffèrent. Il demeure, le plus souvent, d'une remarquable simplicité et amène une quérison définitive.

References Références Referencias

- 1. Messina M; Severi Fm; Bocchi C; et Al: Voluminous prénatal masse : a case f congénital hydrometrocolpos. J Matern Fetal Neonatal Med 2004; 15: 135.
- Yanza MC, Sepou A, Nguembi E, Ngbale R, Gaunefet C, Nali MN: Hymen imperforé, diagnostic négligé à la naissance, urgence chirurgicale à l'adolescence. Schweiz Med Forum 2003; 44: 1063-1065.
- Salvat J; Slamani L: Hématocolpos. J Gynécol Obstet Biol Reprod (Paris) 1998; 27: 396-402.
- Heger AH, Ticson L, Guerra L, et al. Appearance of the genitalia in girls selected for nonabuse: review of hymenal morphology and nonspecific findings. J Pediatr Adolesc Gynecol 2002; 15: 27-35.
- Walsh B, Shih R. An unusual case of urinary retention in a competitive gymnast. J Emerg Med 2006; 31: 279-81.
- anomalies Battran VC:Mullerian and their management. Fertil steril 1983; 40:159-63.

- 7. Mall DJ: An usual case of urinary retention due to imperforate hymen. J Accid Emerg Med 1999; 16: 232.
- 8. Letts M, Haasbeek J: Hematocolpos as a case of back pain in premenarchal adolescents. J Pediatr Orthop 1990; 10:731.
- 9. Sakalkale R, Samarakkody U. Familial occurrence of imperforate hymen. J Pediatr Adolesc Gynecol. 2005:18:427-9.
- 10. Salvat J, Slamani L. Hématocolpos. J Gynécol Obstet Biol Reprod 1998;27:396-402.
- 11. Winderl LM, Silverman PK. Prenatal diagnosis of congenital imperforate hymen. Obstet Gynecol 1995; 85:857-60.
- 12. Rochet Y. les principales malformations génitales : Aspects thérapeutiques. Rev Fr Gyn Obstet 1986 : 81:315-7
- 13. Adali E, Kurdoglu M, Yildizhan R, Kolusari A. An overlooked cause of acute urinary retention in an adolescent girl: a case report. Arch Gynecol Obstet 2009; 279: 701-3.
- 14. Paniel BJ, Truc JB. Diagnostic des malformations congénitales de la vulve et du vagin. Ann Pédiatr 1987; 34 : 11-25.
- SJ, 15. Emans Laufer MR. Goldstein DP. Dysmenorrhea, pelvic pain, and the premenstrual syndrome. In: Emans SJ, Laufer MR, Goldstein DP, eds. Pediatric and Adolescent Gynecology 5th ed. Philadelphia: Lippincott-Raven, 2004: 376-84.
- 16. Loscalzo IL, Catapano M, Loscalzo J, Sama A. Imperforate hymen with bilateral hydronephrosis: an unusual emergency department diagnosis. J Emerg Med 1995; 13: 337-9.
- 17. Yu TJ, Lin MC. Acute urinary retention in two patients with imperforate hymen. Scand J Urol Nephrol 1993; 27: 43-4.
- 18. Dane C, Dane B, Erginbas M, Cetin A. Imperforate hymen-a rare cause of abdominal pain: two cases and review of the literature. J Pediatr Adolesc Gynecol 2007; 20: 245-7.
- 19. Wort SJ, Heman-Ackah C, Davies A. Acute urinary retention in the young female. Br J Urol 1995; 13: 337-9.
- 20. Chang JW, Yang LY, Wang HH, Wang JK, Tiu CM. Acute urinary retention as the presentation of imperforate hymen. J Chin Med Assoc. 2007; 70: 559-61.
- 21. Einsenberg E, Faber M. Complete duplication of the uterus and cervix with unilateraly imperforate vagina. Obst Gynecol 1982; 60: 259-62.
- 22. Wang W, Chen MH, Yang W, Hwang DL. Imperforate hymen presenting with chronic constipation and lumbago; report of one case. Acta Paediatr Taiwan 2004; 45: 340-2.
- 23. Olive DL, Henderson DY. Endometriosis and mullerian anomalies. Obstet Gynecol 1987; 69: 412-5.

- 24. Rock JA, Zacur HA, Dlugi AM, et al. Pregnancy success following surgical correction of imperforate hymen and complete transverse vaginal septum. Obstet Gynecol 1982; 59: 448-51.
- 25. Liang CC, Chang SD, Soong YK. Long-term followup of women who underwent surgical correction for imperforate hymen. Arch Gynecol Obstet 2003; 269:
- 26. Joki-Erkkilä MM. Heinonen PK. Presenting and longterm clinical implications and fecundity in females with obstructing vaginal malformations. J Pediatr Adolesc Gynecol 2003;16:307-12.
- 27. Robberecht E, Smets A, Wincker MV, Delens F. Radiological case of the month hematocolpos due to imperforate hymen. Arch Pediatr Adolesc Med 1996: 150: 993-4.
- 28. Chelli D, Kehila M, Sfar E, Zouaoui B, Chelli H, Chanoufi B. Imperforation hyménéale : peut-on la traiter en préservant la virginité. Santé 2008; 18:
- 29. Salvat J, Slamani L. Hematocolpos. J Gynecol Obstet Biol Reprod 1998;27:396-402.
- 30. Ali A, Cetin C, Nedim C, Kazim G, Cemalettin A. Treatment of imperforate hymen by application of Foley catheter. Eur J Obstet Gynecol Reprod Biol 2003; 106: 72-5.
- 31. Acar A, Balci O, Karatayli R, Capar M, Colakoglu MC. The treatment of 65 women with imperforate hymen by a central incision and application of Foley catheter. BJOG 2007; 114: 1376-9.

This page is intentionally left blank



GLOBAL JOURNAL OF MEDICAL RESEARCH: E GYNECOLOGY AND OBSTETRICS

Volume 15 Issue 4 Version 1.0 Year 2015

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals Inc. (USA)

Online ISSN: 2249-4618 & Print ISSN: 0975-5888

Ewing Sarcoma of Ovary-An Unusual Presentation

By Humera Mahmood, Mohammad Faheem, Sana Mahmood & Sarosh Arif

Oncology & Radiotherapy Institute (NORI) Islamabad, Pakistan

Abstract- Ewing's sarcoma generally arises from bones and soft tissues. Primitive neuroectodermal tumor (PNET) and Ewing sarcoma constitute Ewing family of tumors. In International literature there have been rare reports of Ewing's sarcoma as either primary tumor of ovary or as metastatic disease involving ovary. No such case has yet been reported in Pakistan. Here a case is being presented who was diagnosed as Ewing's sarcoma of ovary. Workup showed no involvement of the bones.

Keywords: ewing's sarcoma, PNET, ovary.

GJMR-E Classification: NLMC Code: WP 320



Strictly as per the compliance and regulations of:



© 2015. Humera Mahmood, Mohammad Faheem, Sana Mahmood & Sarosh Arif. This is a research/review paper, distributed under the terms of the Creative Commons Attribution-Noncommercial 3.0 Unported License http://creativecommons.org/licenses/by-nc/3.0/), permitting all non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Ewing Sarcoma of Ovary-An Unusual Presentation

Humera Mahmood a, Mohammad Faheem s, Sana Mahmood a Sarosh Arif a

Abstract- Ewing's sarcoma generally arises from bones and soft tissues. Primitive neuroectodermal tumor (PNET) and Ewing sarcoma constitute Ewing family of tumors. In International literature there have been rare reports of Ewing's sarcoma as either primary tumor of ovary or as metastatic disease involving ovary. No such case has yet been reported in Pakistan. Here a case is being presented who was diagnosed as Ewing's sarcoma of ovary. Workup showed no involvement of the bones.

Keywords: ewing's sarcoma, PNET, ovary.

I. Introduction

wing's sarcoma is malignant round blue cell tumor which primarily arises from bones involving pelvis, femur, tibia, humerus and clavicle. Patients affected are commonly in their second decade of life. The definitive diagnosis is based on histomorphology, immunohistochemistry and molecular pathology. The pathologic differential diagnosis is the grouping of small round cell tumors which include lymphoma, alveolar rhabdomyosarcoma and others. Ewing's sarcoma typically has clear cytoplasm on H & E staining due to glycogen. Positive PAS staining proves the presence of glycogen. The characteristic immunostain is CD99 which diffusely marks cell membrane. The morphologic immunohistochemical characteristics corroborated with chromosomal translocations of which t(11;22)(q24;q12) is the commonest present in about 90% of Ewing' sarcomas¹. Ovary is very rare site to give origin to Ewing's sarcoma. Few cases of ovarian Ewing's sarcoma have been reported in literature mainly affecting females 18-30 years of age and in all these cases diagnosis was made with the help of immunohistochemistry. Cases of Ewing's sarcoma of uterus, vagina and vulva have also been reported². We are reporting a case of 30year old lady who was diagnosed as having Ewing's sarcoma of ovary.

II. CASE REPORT

A 30 year old, premenopausal lady having 4 children with last child birth 4 years back and no significant family history presented at NORI Islamabad on 19th February 2014. She had already undergone

Author α: (Corresponding Author) Consultant Oncologist, Department of Oncology, Nuclear Medicine, Oncology & Radiotherapy Institute (NORI) Islamabad. e-mail: hmhfaheem02@gmail.com

Author σ: Head Oncology, Nuclear Medicine, Oncology & Radiotherapy Institute (NORI) Islamabad.

Author ρ ω: Resident Oncology, Nuclear Medicine, Oncology & Radiotherapy Institute (NORI) Islamabad.

exploratory laparotomy on 12th December 2013. She presented to gynecologist with complaint of pain lower abdomen. Her Abdominal USG was done on 8th December 2013 which showed a large solid mobile mass in mid pelvis. The mass was not showing any relationship with major abdominal/pelvic organs. This was then followed by CT scan which showed a large well defined, smooth walled, complex soft tissue attenuation mass measuring 7.7x9.1 cm. The exact site of origin was difficult to ascertain on CT scan but it was probably in mesenteric fat. The lesion was mostly solid and differentials could be tumor of neural origin, lymphoma. GIST or carcinoid mass. There was additional finding of a suspicious mass in pelvis which was reported as either an adnexal mass or a nodal deposit (Fig A and B). This was then followed by exploratory laparotomy. CT scan report was not clear regarding the origin of pelvic mass. There were two masses peroperatively. One of the masses was measuring 4x4 cm and was related to posterior surface of uterus. The other mass measured 8x8 cm and was attached to fallopian tube. Excision of masses was done and histopathology showed Granulosa cell tumor of ovarian origin. Slide review was advised due to unusual presentation that was not in accordance with Granulosa cell tumor. Histopathology reviewed showed Ewing Immunohistochemistry Sarcoma. demonstrated positivity of CD99 and NSE thus endorsing the diagnosis of Ewing Sarcoma. Postoperative CT scan was done that showed minimal pelvic ascites. She was planned for chemotherapy but our patient was then lost to follow up. She presented again to our hospital in July 2014 with complaint of pain abdomen. On examination there was a huge mass palpable in lower abdomen lower limit of which was not reachable. On pervaginal examination a mass could be felt outside vagina in relation to its posterior wall. CT scan was repeated that showed a large lobulated mesenteric mass and a pelvic mass with rectal wall thickness (Fig C and D). The case was discussed in MDM and it was decided to give her chemotherapy followed by evaluation for surgery. Vincristine, Doxorubicin and Cyclophosphamide were started alternating with Ifosfamide and Etoposide. Interval assessment was done. Although there was reduction in size of mesenteric and pelvic mass, (Fig E and F) however, surgery was still not possible due to indistinct fat planes with rectum. Chemotherapy was continued till 17 cycles. Doxorubicin was replaced with Dactinomycin after 5 cycles of Doxorubicin. Recent CT scan showed further reduction in size of pelvic mass

and resolution of mesenteric mass. Fat planes with rectum became distinct. Currently, she has been referred for surgery after discussion in MDM.

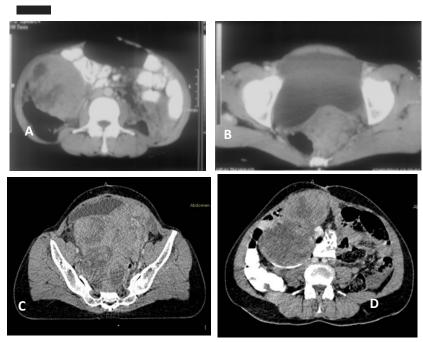
III. Discussion

Formerly thought to be dissimilar Ewina sarcoma and PNET are now considered to be same that demonstrate variable degree neuroectodermal differentiation. Ewing sarcoma lacks neuroectodermal differentiation whereas **PNET** expresses neuroectodermal differentiation when evaluated either by microscopy or IHC³. Extraosseous Ewing Sarcoma is a rare entity and that of female genital tract is extremely uncommon. The commonest site of PNET in female genital tract is ovary followed by uterus. The paucity of the disease can result in diagnostic dilemmas4. Our patient was also initially misdiagnosed as a case of Granulosa cell tumor of ovary. In her case not only histopathology was incorrect but also imaging studies were misleading. The site of origin and accurate diagnosis was determined only after review of histopathology and immunohistochemistry. Had the patient been discussed in multidisciplinary meeting prior to embarking on surgery, in view of extensive disease could have been advised neoadjuvant chemotherapy after guided biopsy. Another appropriate approach might have been diagnostic laparoscopy. Ovarian PNETs are very aggressive tumors and are associated with extremely poor prognosis due to high incidence of metastatic disease. Median survival ranges from 10.8 months to 3 years. The prognosis of patients presenting with localized tumors has improved in recent years by means of multimodality treatment such as surgery, radiation and chemotherapy. Chemotherapeutic agents frequently used are vincristine, doxorubicin and cyclophosphamide alternating with

and doxorubicin⁵. Although Ifosfamide debulking was done in this particular case as evident by postoperative CT scan but she didn't come for adjuvant treatment resulting in local recurrence within 4-5 months of surgery. In a case report by Anfinan et al local recurrence in 31 years old female was seen during adjuvant chemotherapy with vincristine, doxorubicin and Ifosfamide alternating with vincristine, adriamycin and Ifosfamide. Cases of Ewing sarcoma already reported in literature were in 18 to 30 years age group² and our patient was also 30 years old. This shows that patients to be affected with ovarian Ewing sarcoma are relatively young. A number of chromosomal abnormalities are associated with PNET/Ewing sarcoma including deletion of Retinoblastoma gene, ras homologue member I and overexpression of N-myc, fas ligand, tumor necrosis factor and epidermal growth factor receptor. These factors may perhaps be responsible for aggressive nature of these tumors⁶. Due to non availability in Pakistan chromosomal abnormalities were not studiedin this patient but CD99 and NSE were strongly positive on Immunohistochemistry. Our patient has responded well to chemotherapy, whether this translates into better survival warrants further follow up.

IV. Conclusion

Although rare but Ewing sarcoma of ovary should be kept in differential diagnosis particularly in patients having unusual presentation. young Immunohistochemical markers should be applied for proper diagnosis. Here also comes importance of multidisciplinary meetings. Strong coordination is required among oncologists, gynecologists, radiologists and pathologists before putting the patient on any treatment modality.



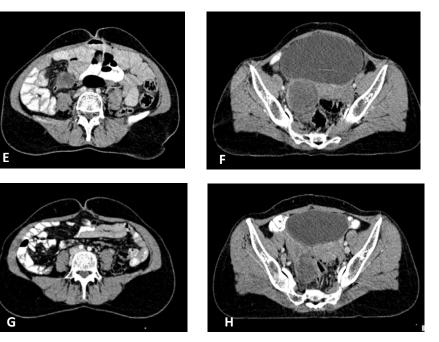


Fig A and B: Pre operative CT scan showing mesenteric mass and suspicious mass in pelvis.

Fig C and D: Pre chemotherapy CT scan showing recurrent mass in mesentery and huge pelvic mass.

Fig E and F: CT scan done after 6 cycles for interval assessment showing regression of masses.

Fig G and H: CT scan done after completion of chemotherapy showing resolution of mesenteric mass and further regression of pelvic mass

References Références Referencias

- Richard J, Steven GD, Daphne AHK. Sarcomas of Bone. In: Devita VT, Lawrence TS, Rosenberg SA, editors. Cancer Principles & Practice of Oncology. 10th edition. Wolters Kluwer Lippincott: Williams and Wilkins; 2015. pp. 1293–1311.
- 2. Giuseppe L, Leonardo R, Edoardo DN, Anna MC, Salvatore AM, Mario V, et al. Conservative treatment of Ewing's sarcoma of uterus in young women. Case Rep Obstet Gynecol. 2015; 2015: http://dx.doi.org/10.1155/2015/871821.
- YIP CM, HSU SS, Chang NJ, Wang JS, Liao WC, Chen JY, et al. Primary vaginal extraosseous ewing sarcoma/ primitive neuroectodermal tumor with cranial metastasis. J Chin Med Assoc. 2009; 72(6): 332-5.
- Mashriqi N, Gujjarlapudi JK, Sidhy J, Zur M, Yalamanchili M. Ewing's sarcoma of cervix a diagnostic dilemma: a case report and review of literature. J Med Case Rep. 2015; 9(1): 225. DOI 10.1186/s13256-015-0733-2.
- Kuk JY, Yoon SY, Kim MJ, Lee JW, Kim BG, Bae DS. A case of primitive neuroectodermal tumor of the ovary. Korean J Obstet Gynecol. 2012; 55(10): 777-81.
- 6. Anfinan NM, Sait KH, Al-Maghrabi JA. Primitive neuroectodermal tumor the ovary. Saudi Med J. 2008; 29(3): 444-6.

This page is intentionally left blank



GLOBAL JOURNAL OF MEDICAL RESEARCH: E GYNECOLOGY AND OBSTETRICS

Volume 15 Issue 4 Version 1.0 Year 2015

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals Inc. (USA)

Online ISSN: 2249-4618 & Print ISSN: 0975-5888

Rising Trend of Caesarean Section in Rural India: A Prospective Study

By Dr. Deepti Shrivastava & Dr Priyakshi Chaudhry

JNMC, India

Introduction- The rate of caesarean section is constantly increasing beyond the recommended level of 5-15% by world Health Organization. Caesarean section is usually performed to ensure safety of the mother and child under conditions of obstetric risks. This medical intervention is more or less justified under certain circumstances such as breech presentation, dystocia, previous caesarean section and suspected fetal compromise.

Caesarean section rate varies in different places depending on type of care giver and type of facility. In the last decade, the rate has increased almost double. In developing countries like India too many women are undergoing caesarean section. This trend is rising in urban as well as in rural population of India. In 2010, the incidence was around 8.5% but a phenomenal increase of 40 % was seen in Kerala and Tamil Nadu .lt is found that the low threshold for caesarean is becoming common in rural India as well.

GJMR-E Classification: NLMC Code: WJ 140



Strictly as per the compliance and regulations of:



Rising Trend of Caesarean Section in Rural India: A Prospective Study

Dr. Deepti Shrivastava ^a & Dr Priyakshi Chaudhry ^a

I. Introduction

he rate of caesarean section is constantly increasing beyond the recommended level of 5-15% by world Health Organization. Caesarean section is usually performed to ensure safety of the mother and child under conditions of obstetric risks. This medical intervention is more or less justified under certain circumstances such as breech presentation, dystocia, previous caesarean section and suspected fetal compromise.1

Caesarean section rate varies in different places depending on type of care giver and type of facility. In the last decade, the rate has increased almost double. In developing countries like India too many women are undergoing caesarean section. This trend is rising in urban as well as in rural population of India. In 2010, the incidence was around 8.5% but a phenomenal increase of 40 % was seen in Kerala and Tamil Nadu .lt is found that the low threshold for caesarean is becoming common in rural India as well.2

The factors which are responsible for this trend include increased institutional deliveries, inadequate use of electronic foetal monitoring, inadequate care and apprehension of patients as well as doctors. Unnecessary caesarean sections can increase the risk of maternal morbidity, neonatal death and neonatal admission to an intensive care unit and overall cost of health care. Moreover, in any antenatal women with previous caesarean section careful intrapartum monitoring is required to check for integrity of previous scar .This may not be possible for all specially those living in rural and underprivileged sector India. Therefore primary caesarean section should be planned very judiciously after critical evaluation of circumstances.

Our study is planned to introspect this sharp increase in the rate of caesarean section and to find out its determinants.

- a) Aims and objectives
- 1. To analyse the current trend of caesarean section in rural India...
- To determine the factors responsible for caesarean section.

Author α: (Prof and hod), (avbrh, JNMC, Sawangi Meghe, Maharashtra). e-mail: deepti shrivastava69@yahoo.com Author σ: (Resident), (avbrh, JNMC, Sawangi Meghe, Maharashtra). e-mail: priyakshichaudhry@gmail.com

II. Material and Method

This prospective study was carried out in Acharya Vinoba Bhave Hospital, Sawangi, Maharashtra, Department of Obs and Gynae from May 2015 to October 2015. Total 500 patients were consecutively selected. After taking consent, detailed past and present history was taken from all the cases, general and local examination was done on the day of LSCS. CPD (Cephalopelvic disproportion) was assesd mainly by clinical pelvimetry. Labour patients were monitored byplotting partogram. All the investigations Hb%, Blood grouping & Rh typing, urine R/E, obstetric USG was taken into account and in selected cases blood urea, s. creatinine, serum uric acid, SGPT and serum electrolyte

Blood/Donor was kept ready in selected cases such as placenta Previa. Detailed analysis of cases was done in terms of emergency/elective, type of LSCS, complications, high risk factors and other contributing factors in pre structured proforma. Stastical analysis was done by test of significance.

Exclusion criteria

- Previous caesarean section
- Conception after ART
- Estimated foetal weight more than 4 kg

III. RESULTS

Distribution of cases according to the Age

AGE	NO OF CASES (N=500)	percentage
20years	<u>45</u>	<u>9%</u>
20-25 years	<u>305</u>	<u>61%</u>
26-30years	<u>115</u>	<u>23%</u>
Above 30 years	<u>35</u>	<u>7%</u>
EDUCATION		
Primary education	282	56.5%
Middle school	164	32.8%
High school	36	7.2%
Graduate	18	3.5%
Socio economic status		
Class 1	26	5%
Class 2	97	19.5%
Class 3	190	38%
Class 4	157	31.55%
Class 5	30	5.95%
occupation		
Home maker	205	41%
Manual labourer/Farm worker	223	44.6%
Office worker	72	14.4%

Table no 2) Distribution of cases according to Indications of Iscs

Indications	No of cases N=500	Percentage*
Fetal Distress	<u>139</u>	<u>27.8%</u>
Obstructed Labor	<u>29</u>	<u>5.8%</u>
Failed Progression Of Labor	<u>30</u>	<u>6%</u>
Pre labor rupture of membranes	<u>30</u>	<u>6%</u>
Bad Obstetric History	<u>17</u>	<u>3.4%</u>
Breech Presentation	<u>28</u>	<u>15%</u>
twins	<u>5</u>	<u>1%</u>
CPD	<u>20</u>	<u>4%</u>
Transverse Lie	<u>4</u>	<u>0.8%</u>
Face Presentation	<u>6</u>	<u>1.2%</u>
Brow Presentation	4	0.8%

Eclampsia	<u>8</u>	<u>1.6%</u>
Pre-Eclampsia	<u>39</u>	<u>7.8%</u>
Cord Prolapse	<u>9</u>	<u>1.8%</u>
Hydromnios	<u>23</u>	<u>4.6%</u>
IUGR	<u>25</u>	<u>5%</u>
Placenta Previa	<u>3</u>	<u>0.6%</u>
Abruption placenta	<u>14</u>	<u>2.8%</u>
Medical disorder(GDM)	7	<u>1.4%</u>
Previous surgery	<u>12</u>	<u>2.4%</u>
Mothers request	<u>47</u>	<u>8.7%</u>

^{*}percentage differs due to multiple indicators

IV. Results and Discussion

Caesarean section is used in cases in which vaginal delivery either is not feasible or would impose undue risk on mother or baby. Rising incidence can be explained by the fact that our hospital is a tertiary care centre and receives a good number of high risk emergency cases with inadequate or no antenatal care Most of the patient brought late in labour after being handled by untrained birth attendants and are actually and potentially infected, often anaemic and dehydrated. Early detection & early decision also increase the incidence of LSCS.

Analysis of age group shows that 84% patients belonged to age group of 20-30years, a study in IPGMR ³showed 89% among this group and 77% in a study by Karim FT al4

In this study most common indication of cesarean section was fetal distress 27.8% which was similar to the study done by Patil et al⁵ in 2011 the rate was 35% With the availability of early predictors of foetal wellbeing such as NST Machines, Foetal Doppler's, Biophysical profiles & the Foetal scalp blood pH estimations over diagnosis of foetal distress along with increased dependency on the machines may be one factor for increased rate of LSCS.

15% patients had breech presentation which was similar to study done by Karim et al⁴ 9.8% and 6% by Nahar et al⁶.

Failed progression of labour was reported in 6% cases which was similar to study of Nahar et al⁶ 10%, 14.8% by Karim et al⁴.

6% patients had pre mature rupture of membranes as the indicator 18.5% was seen in study by Karim ET al⁴.

Malpresentation was indicator in 2.8% cases which was similar to study done by Nahar ET al⁶ was 6%.

CPD was 4%, whereas in a study by Nahar ET al⁶ it was 6%.

Amniotic fluid disorders particularly oligohydramnios were 4.6% culminating to caesarean section in our study whereas in study done by Patil ET al⁵ the incidence in 2000 was 8% of total indications of caesarean section.

Eclampsia and pre-eclampsia as a primary indication for caesarean section was 9.4% in study by Patil et al⁵ it was 7 % of total indications, in study by Nahar et al⁶ was 12% and 6.32% in a study by Karim et al⁴. Rising Obesity, anaemia in rural area amongst the women can be considered one of the factors leading to Hypertension during the pregnancy.

Incidence of abruptio placenta, placenta Previa was 2.8% and 0.6% where as in study done by Patil ET al⁵ it was 3-4%.

1.4% cases were reported to have medical disorders (GDM) whereas in study by Karim ET al4 it was 15.7%.

Patients who were from class 5 of socio economic status or who were graduate and office workers had personal request of getting LSCS done which accounted for 8.7% because it was feasible and less time consuming and did not wanted to undergo so much trauma and did not want to take any risk.

V. Conclusion

In modern obstetrics, Caesarean section is a important surgical procedure for delivery, because of its low rate of maternal morbidity and mortality due to improved surgical technique and modern anaesthetic skill. The scheme like Janani Suraksha Yojana (JSY) may have a great impact on accepting institutional deliveries by poor women. Rising institutional delivery may be a reason of the increase of CS in India. Rising litigation, insurance, preterm caesarean section to salvage the premature babies in the era of modern NICU facility & doctors anxiety are leading to the era of more operative deliveries.

References Références Referencias

- Sancheeta Ghosh* and K.S James† Population Research Centre. Institute for Social and Economic Change (ISEC), Bangalore*
- The ICMR School of Public Health. And it's happening across both urban and rural areas: Mumbai.
- 3. Zaman N. A clinical study on caesarian section in IPGMR (dissertation). Dhaka. Bangladesh College of Physicians & Surgeons; P 84-92.
- 4. Farah Karim, Asifa Ghazi, Tehmina Ali, Rukhsana Aslam, Uzma Afreen, Romana Farhat, Trends and Determinants of Caesarean Section. Journal of Surgery Pakistan (International) 16 (1) January -March 2011.
- 5. Dr Mithil M Patil, Dr Vandana Nimbrghi, Dr S. S. Mehndale, Trends of Cesarean Section At Tertiary Care Hospital In India Over 10 Years. Indian Journal of Applied Research.
- Khairun Nahar, Indications of Caesarean Section -Study of 100 cases in Mymensingh Medical College Hospital. Journal of Shaheed Suhrawardy Medical College.



FELLOWS

FELLOW OF ASSOCIATION OF RESEARCH SOCIETY IN MEDICAL (FARSM)

Global Journals Incorporate (USA) is accredited by Open Association of Research Society (OARS), U.S.A and in turn, awards "FARSM" title to individuals.The'FARSM' title is accorded to a selected professional after the approval of the Editor-in-Chief/Editorial Board Members/Dean.



The "FARSM" is a dignified title which is accorded to a person's name viz. Dr. John E. Hall, Ph.D., FARSS or William Walldroff, M.S., FARSM.

FARSM accrediting is an honor. It authenticates your research activities. After recognition as FARSM, you can add 'FARSM' title with your name as you use this recognition as additional suffix to your status. This will definitely enhance and add more value and repute to your name. You may use it on your professional Counseling Materials such as CV, Resume, and Visiting Card etc.

The following benefits can be availed by you only for next three years from the date of certification:



FARSM designated members are entitled to avail a 40% discount while publishing their research papers (of a single author) with Global Journals Incorporation (USA), if the same is accepted by Editorial Board/Peer Reviewers. If you are a main author or coauthor in case of multiple authors, you will be entitled to avail discount of 10%.

Once FARSM title is accorded, the Fellow is authorized to organize a symposium/seminar/conference on behalf of Global Journal Incorporation (USA). The Fellow can also participate in conference/seminar/symposium organized by another institution as representative of Global Journal. In both the cases, it is mandatory for him to discuss with us and obtain our consent.



You may join as member of the Editorial Board of Global Journals Incorporation (USA) after successful completion of three years as Fellow and as Peer Reviewer. In addition, it is also desirable that you should organize seminar/symposium/conference at least once.

We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.





The FARSM can go through standards of OARS. You can also play vital role if you have any suggestions so that proper amendment can take place to improve the same for the Journals Research benefit of entire research community.

As FARSM, you will be given a renowned, secure and free professional email addres with 100 GB of space e.g. johnhall@globaljournals.org. This will include Webmail, Spam Assassin, Email Forwarders, Auto-Responders, Email Delivery Route tracing, etc.



The FARSM will be eligible for a free application of standardization of their researches. Standardization of research will be subject to acceptability within stipulated norms as the next step after publishing in a journal. We shall depute a team of specialized research professionals who will render their services for elevating your researches to next higher level, which is worldwide open standardization.

The FARSM member can apply for grading and certification of standards of their educational and Institutional Degrees to Open Association of Research, Society U.S.A. Once you are designated as FARSM, you may send us a scanned copy of all of you once you are designated as LANSIVI, you may seem and credentials. OARS will verify, grade and certify them. This will be based on your and some more academic records, quality of research papers published by you, and some more criteria. After certification of all your credentials by OARS, they will be published on your Fellow Profile link on website https://associationofresearch.org which will be helpful to upgrade the dignity.



The FARSM members can avail the benefits of free research podcasting in Global Research Radio with their research documents. After publishing the work, (including published elsewhere worldwide with proper authorization) you can

upload your research paper with your recorded voice or you can utilize

chargeable services of our professional RJs to record your paper in their voice on request.

The FARSM member also entitled to get the benefits of free research podcasting o their research documents through video clips. We can also streamline your conference videos and display your slides/ online slides and online research video clips at reasonable charges, on request.





The FARSM is eligible to earn from sales proceeds of his/her researches/reference/review Books or literature, while publishing with Global Journals. The FARSS can decide whether he/she would like to publish his/her research in a closed manner. In this case, whenever readers purchase that individual research paper for reading, maximum 60% of its profit earned as royalty by Global Journals, will

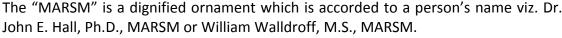
be credited to his/her bank account. The entire entitled amount will be credited to his/her bank account exceeding limit of minimum fixed balance. There is no minimum time limit for collection. The FARSM member can decide its price and we can help in making the right decision.

The FARSM member is eligible to join as a paid peer reviewer at Global Journals Incorporation (USA) and can get remuneration of 15% of author fees, taken from the author of a respective paper. After reviewing 5 or more papers you can request to transfer the amount to your bank account.



MEMBER OF ASSOCIATION OF RESEARCH SOCIETY IN MEDICAL (MARSM)

The 'MARSM' title is accorded to a selected professional after the approval of the Editor-in-Chief / Editorial Board Members/Dean.





MARSM accrediting is an honor. It authenticates your research activities. Afterbecoming MARSM, you can add 'MARSM' title with your name as you use this recognition as additional suffix to your status. This will definitely enhance and add more value and repute to your name. You may use it on your professional Counseling Materials such as CV, Resume, Visiting Card and Name Plate etc.

The following benefitscan be availed by you only for next three years from the date of certification.



MARSM designated members are entitled to avail a 25% discount while publishing their research papers (of a single author) in Global Journals Inc., if the same is accepted by our Editorial Board and Peer Reviewers. If you are a main author or coauthor of a group of authors, you will get discount of 10%.

As MARSM, you willbe given a renowned, secure and free professional email address with 30 GB of space e.g. johnhall@globaljournals.org. This will include Webmail, Spam Assassin, Email Forwarders, Auto-Responders, Email Delivery Route tracing, etc.







We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.

The MARSM member can apply for approval, grading and certification of standards of their educational and Institutional Degrees to Open Association of Research, Society U.S.A.





Once you are designated as MARSM, you may send us a scanned copy of all of your credentials. OARS will verify, grade and certify them. This will be based on your academic records, quality of research papers published by you, and some more criteria.

It is mandatory to read all terms and conditions carefully.



AUXILIARY MEMBERSHIPS

Institutional Fellow of Open Association of Research Society (USA) - OARS (USA)

Global Journals Incorporation (USA) is accredited by Open Association of Research Society, U.S.A (OARS) and in turn, affiliates research institutions as "Institutional Fellow of Open Association of Research Society" (IFOARS).



The "FARSC" is a dignified title which is accorded to a person's name viz. Dr. John E. Hall, Ph.D., FARSC or William Walldroff, M.S., FARSC.

The IFOARS institution is entitled to form a Board comprised of one Chairperson and three to five board members preferably from different streams. The Board will be recognized as "Institutional Board of Open Association of Research Society"-(IBOARS).

The Institute will be entitled to following benefits:



The IBOARS can initially review research papers of their institute and recommend them to publish with respective journal of Global Journals. It can also review the papers of other institutions after obtaining our consent. The second review will be done by peer reviewer of Global Journals Incorporation (USA) The Board is at liberty to appoint a peer reviewer with the approval of chairperson after consulting us.

The author fees of such paper may be waived off up to 40%.

The Global Journals Incorporation (USA) at its discretion can also refer double blind peer reviewed paper at their end to the board for the verification and to get recommendation for final stage of acceptance of publication.





The IBOARS can organize symposium/seminar/conference in their country on penal or Global Journals Incorporation (USA)-OARS (USA). The terms and conditions can be discussed separately.

The Board can also play vital role by exploring and giving valuable suggestions regarding the Standards of "Open Association of Research Society, U.S.A (OARS)" so that proper amendment can take place for the benefit of entire research community. We shall provide details of particular standard only on receipt of request from the Board.



The board members can also join us as Individual Fellow with 40% discount on total fees applicable to Individual Fellow. They will be entitled to avail all the benefits as declared. Please visit Individual Fellow-sub menu of GlobalJournals.org to have more relevant details.

Journals Research relevant details.



We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.



After nomination of your institution as "Institutional Fellow" and constantly functioning successfully for one year, we can consider giving recognition to your institute to function as Regional/Zonal office on our behalf.

The board can also take up the additional allied activities for betterment after our consultation.

The following entitlements are applicable to individual Fellows:

Open Association of Research Society, U.S.A (OARS) By-laws states that an individual Fellow may use the designations as applicable, or the corresponding initials. The Credentials of individual Fellow and Associate designations signify that the individual has gained knowledge of the fundamental concepts. One is magnanimous and proficient in an expertise course covering the professional code of conduct, and follows recognized standards of practice.





Open Association of Research Society (US)/ Global Journals Incorporation (USA), as described in Corporate Statements, are educational, research publishing and PROBLEM RADIO professional membership organizations. Achieving our individual Fellow or Associate status is based mainly on meeting stated educational research requirements.

Disbursement of 40% Royalty earned through Global Journals: Researcher = 50%, Peer Reviewer = 37.50%, Institution = 12.50% E.g. Out of 40%, the 20% benefit should be passed on to researcher, 15 % benefit towards remuneration should be given to a reviewer and remaining 5% is to be retained by the institution.



We shall provide print version of 12 issues of any three journals [as per your requirement] out of our 38 journals worth \$ 2376 USD.

Other:

The individual Fellow and Associate designations accredited by Open Association of Research Society (US) credentials signify guarantees following achievements:

The professional accredited with Fellow honor, is entitled to various benefits viz. name, fame, honor, regular flow of income, secured bright future, social status etc.



- In addition to above, if one is single author, then entitled to 40% discount on publishing research paper and can get 10% discount if one is co-author or main author among group of authors.
- ➤ The Fellow can organize symposium/seminar/conference on behalf of Global Journals Incorporation (USA) and he/she can also attend the same organized by other institutes on behalf of Global Journals.
- > The Fellow can become member of Editorial Board Member after completing 3yrs.
- ➤ The Fellow can earn 60% of sales proceeds from the sale of reference/review books/literature/publishing of research paper.
- Fellow can also join as paid peer reviewer and earn 15% remuneration of author charges and can also get an opportunity to join as member of the Editorial Board of Global Journals Incorporation (USA)
- This individual has learned the basic methods of applying those concepts and techniques to common challenging situations. This individual has further demonstrated an in-depth understanding of the application of suitable techniques to a particular area of research practice.

Note:

- In future, if the board feels the necessity to change any board member, the same can be done with the consent of the chairperson along with anyone board member without our approval.
- In case, the chairperson needs to be replaced then consent of 2/3rd board members are required and they are also required to jointly pass the resolution copy of which should be sent to us. In such case, it will be compulsory to obtain our approval before replacement.
- In case of "Difference of Opinion [if any]" among the Board members, our decision will be final and binding to everyone.



PROCESS OF SUBMISSION OF RESEARCH PAPER

The Area or field of specialization may or may not be of any category as mentioned in 'Scope of Journal' menu of the GlobalJournals.org website. There are 37 Research Journal categorized with Six parental Journals GJCST, GJMR, GJRE, GJMBR, GJSFR, GJHSS. For Authors should prefer the mentioned categories. There are three widely used systems UDC, DDC and LCC. The details are available as 'Knowledge Abstract' at Home page. The major advantage of this coding is that, the research work will be exposed to and shared with all over the world as we are being abstracted and indexed worldwide.

The paper should be in proper format. The format can be downloaded from first page of 'Author Guideline' Menu. The Author is expected to follow the general rules as mentioned in this menu. The paper should be written in MS-Word Format (*.DOC,*.DOCX).

The Author can submit the paper either online or offline. The authors should prefer online submission. Online Submission: There are three ways to submit your paper:

- (A) (I) First, register yourself using top right corner of Home page then Login. If you are already registered, then login using your username and password.
 - (II) Choose corresponding Journal.
 - (III) Click 'Submit Manuscript'. Fill required information and Upload the paper.
- (B) If you are using Internet Explorer, then Direct Submission through Homepage is also available.
- (C) If these two are not conveninet, and then email the paper directly to dean@globaljournals.org.

Offline Submission: Author can send the typed form of paper by Post. However, online submission should be preferred.



Preferred Author Guidelines

MANUSCRIPT STYLE INSTRUCTION (Must be strictly followed)

Page Size: 8.27" X 11""

Left Margin: 0.65Right Margin: 0.65Top Margin: 0.75Bottom Margin: 0.75

- Font type of all text should be Swis 721 Lt BT.
- Paper Title should be of Font Size 24 with one Column section.
- Author Name in Font Size of 11 with one column as of Title.
- Abstract Font size of 9 Bold, "Abstract" word in Italic Bold.
- Main Text: Font size 10 with justified two columns section
- Two Column with Equal Column with of 3.38 and Gaping of .2
- First Character must be three lines Drop capped.
- Paragraph before Spacing of 1 pt and After of 0 pt.
- Line Spacing of 1 pt
- Large Images must be in One Column
- Numbering of First Main Headings (Heading 1) must be in Roman Letters, Capital Letter, and Font Size of 10.
- Numbering of Second Main Headings (Heading 2) must be in Alphabets, Italic, and Font Size of 10.

You can use your own standard format also.

Author Guidelines:

- 1. General,
- 2. Ethical Guidelines,
- 3. Submission of Manuscripts,
- 4. Manuscript's Category,
- 5. Structure and Format of Manuscript,
- 6. After Acceptance.

1. GENERAL

Before submitting your research paper, one is advised to go through the details as mentioned in following heads. It will be beneficial, while peer reviewer justify your paper for publication.

Scope

The Global Journals Inc. (US) welcome the submission of original paper, review paper, survey article relevant to the all the streams of Philosophy and knowledge. The Global Journals Inc. (US) is parental platform for Global Journal of Computer Science and Technology, Researches in Engineering, Medical Research, Science Frontier Research, Human Social Science, Management, and Business organization. The choice of specific field can be done otherwise as following in Abstracting and Indexing Page on this Website. As the all Global



Journals Inc. (US) are being abstracted and indexed (in process) by most of the reputed organizations. Topics of only narrow interest will not be accepted unless they have wider potential or consequences.

2. ETHICAL GUIDELINES

Authors should follow the ethical guidelines as mentioned below for publication of research paper and research activities.

Papers are accepted on strict understanding that the material in whole or in part has not been, nor is being, considered for publication elsewhere. If the paper once accepted by Global Journals Inc. (US) and Editorial Board, will become the copyright of the Global Journals Inc. (US).

Authorship: The authors and coauthors should have active contribution to conception design, analysis and interpretation of findings. They should critically review the contents and drafting of the paper. All should approve the final version of the paper before submission

The Global Journals Inc. (US) follows the definition of authorship set up by the Global Academy of Research and Development. According to the Global Academy of R&D authorship, criteria must be based on:

- 1) Substantial contributions to conception and acquisition of data, analysis and interpretation of the findings.
- 2) Drafting the paper and revising it critically regarding important academic content.
- 3) Final approval of the version of the paper to be published.

All authors should have been credited according to their appropriate contribution in research activity and preparing paper. Contributors who do not match the criteria as authors may be mentioned under Acknowledgement.

Acknowledgements: Contributors to the research other than authors credited should be mentioned under acknowledgement. The specifications of the source of funding for the research if appropriate can be included. Suppliers of resources may be mentioned along with address.

Appeal of Decision: The Editorial Board's decision on publication of the paper is final and cannot be appealed elsewhere.

Permissions: It is the author's responsibility to have prior permission if all or parts of earlier published illustrations are used in this paper.

Please mention proper reference and appropriate acknowledgements wherever expected.

If all or parts of previously published illustrations are used, permission must be taken from the copyright holder concerned. It is the author's responsibility to take these in writing.

Approval for reproduction/modification of any information (including figures and tables) published elsewhere must be obtained by the authors/copyright holders before submission of the manuscript. Contributors (Authors) are responsible for any copyright fee involved.

3. SUBMISSION OF MANUSCRIPTS

Manuscripts should be uploaded via this online submission page. The online submission is most efficient method for submission of papers, as it enables rapid distribution of manuscripts and consequently speeds up the review procedure. It also enables authors to know the status of their own manuscripts by emailing us. Complete instructions for submitting a paper is available below.

Manuscript submission is a systematic procedure and little preparation is required beyond having all parts of your manuscript in a given format and a computer with an Internet connection and a Web browser. Full help and instructions are provided on-screen. As an author, you will be prompted for login and manuscript details as Field of Paper and then to upload your manuscript file(s) according to the instructions.



To avoid postal delays, all transaction is preferred by e-mail. A finished manuscript submission is confirmed by e-mail immediately and your paper enters the editorial process with no postal delays. When a conclusion is made about the publication of your paper by our Editorial Board, revisions can be submitted online with the same procedure, with an occasion to view and respond to all comments.

Complete support for both authors and co-author is provided.

4. MANUSCRIPT'S CATEGORY

Based on potential and nature, the manuscript can be categorized under the following heads:

Original research paper: Such papers are reports of high-level significant original research work.

Review papers: These are concise, significant but helpful and decisive topics for young researchers.

Research articles: These are handled with small investigation and applications

Research letters: The letters are small and concise comments on previously published matters.

5.STRUCTURE AND FORMAT OF MANUSCRIPT

The recommended size of original research paper is less than seven thousand words, review papers fewer than seven thousands words also. Preparation of research paper or how to write research paper, are major hurdle, while writing manuscript. The research articles and research letters should be fewer than three thousand words, the structure original research paper; sometime review paper should be as follows:

Papers: These are reports of significant research (typically less than 7000 words equivalent, including tables, figures, references), and comprise:

- (a) Title should be relevant and commensurate with the theme of the paper.
- (b) A brief Summary, "Abstract" (less than 150 words) containing the major results and conclusions.
- (c) Up to ten keywords, that precisely identifies the paper's subject, purpose, and focus.
- (d) An Introduction, giving necessary background excluding subheadings; objectives must be clearly declared.
- (e) Resources and techniques with sufficient complete experimental details (wherever possible by reference) to permit repetition; sources of information must be given and numerical methods must be specified by reference, unless non-standard.
- (f) Results should be presented concisely, by well-designed tables and/or figures; the same data may not be used in both; suitable statistical data should be given. All data must be obtained with attention to numerical detail in the planning stage. As reproduced design has been recognized to be important to experiments for a considerable time, the Editor has decided that any paper that appears not to have adequate numerical treatments of the data will be returned un-refereed;
- (g) Discussion should cover the implications and consequences, not just recapitulating the results; conclusions should be summarizing.
- (h) Brief Acknowledgements.
- (i) References in the proper form.

Authors should very cautiously consider the preparation of papers to ensure that they communicate efficiently. Papers are much more likely to be accepted, if they are cautiously designed and laid out, contain few or no errors, are summarizing, and be conventional to the approach and instructions. They will in addition, be published with much less delays than those that require much technical and editorial correction.



The Editorial Board reserves the right to make literary corrections and to make suggestions to improve briefness.

It is vital, that authors take care in submitting a manuscript that is written in simple language and adheres to published guidelines.

Format

Language: The language of publication is UK English. Authors, for whom English is a second language, must have their manuscript efficiently edited by an English-speaking person before submission to make sure that, the English is of high excellence. It is preferable, that manuscripts should be professionally edited.

Standard Usage, Abbreviations, and Units: Spelling and hyphenation should be conventional to The Concise Oxford English Dictionary. Statistics and measurements should at all times be given in figures, e.g. 16 min, except for when the number begins a sentence. When the number does not refer to a unit of measurement it should be spelt in full unless, it is 160 or greater.

Abbreviations supposed to be used carefully. The abbreviated name or expression is supposed to be cited in full at first usage, followed by the conventional abbreviation in parentheses.

Metric SI units are supposed to generally be used excluding where they conflict with current practice or are confusing. For illustration, 1.4 I rather than $1.4 \times 10-3$ m3, or 4 mm somewhat than $4 \times 10-3$ m. Chemical formula and solutions must identify the form used, e.g. anhydrous or hydrated, and the concentration must be in clearly defined units. Common species names should be followed by underlines at the first mention. For following use the generic name should be constricted to a single letter, if it is clear.

Structure

All manuscripts submitted to Global Journals Inc. (US), ought to include:

Title: The title page must carry an instructive title that reflects the content, a running title (less than 45 characters together with spaces), names of the authors and co-authors, and the place(s) wherever the work was carried out. The full postal address in addition with the email address of related author must be given. Up to eleven keywords or very brief phrases have to be given to help data retrieval, mining and indexing.

Abstract, used in Original Papers and Reviews:

Optimizing Abstract for Search Engines

Many researchers searching for information online will use search engines such as Google, Yahoo or similar. By optimizing your paper for search engines, you will amplify the chance of someone finding it. This in turn will make it more likely to be viewed and/or cited in a further work. Global Journals Inc. (US) have compiled these guidelines to facilitate you to maximize the web-friendliness of the most public part of your paper.

Key Words

A major linchpin in research work for the writing research paper is the keyword search, which one will employ to find both library and Internet resources.

One must be persistent and creative in using keywords. An effective keyword search requires a strategy and planning a list of possible keywords and phrases to try.

Search engines for most searches, use Boolean searching, which is somewhat different from Internet searches. The Boolean search uses "operators," words (and, or, not, and near) that enable you to expand or narrow your affords. Tips for research paper while preparing research paper are very helpful guideline of research paper.

Choice of key words is first tool of tips to write research paper. Research paper writing is an art.A few tips for deciding as strategically as possible about keyword search:



- One should start brainstorming lists of possible keywords before even begin searching. Think about the most important concepts related to research work. Ask, "What words would a source have to include to be truly valuable in research paper?" Then consider synonyms for the important words.
- It may take the discovery of only one relevant paper to let steer in the right keyword direction because in most databases, the keywords under which a research paper is abstracted are listed with the paper.
- One should avoid outdated words.

Keywords are the key that opens a door to research work sources. Keyword searching is an art in which researcher's skills are bound to improve with experience and time.

Numerical Methods: Numerical methods used should be clear and, where appropriate, supported by references.

Acknowledgements: Please make these as concise as possible.

References

References follow the Harvard scheme of referencing. References in the text should cite the authors' names followed by the time of their publication, unless there are three or more authors when simply the first author's name is quoted followed by et al. unpublished work has to only be cited where necessary, and only in the text. Copies of references in press in other journals have to be supplied with submitted typescripts. It is necessary that all citations and references be carefully checked before submission, as mistakes or omissions will cause delays.

References to information on the World Wide Web can be given, but only if the information is available without charge to readers on an official site. Wikipedia and Similar websites are not allowed where anyone can change the information. Authors will be asked to make available electronic copies of the cited information for inclusion on the Global Journals Inc. (US) homepage at the judgment of the Editorial Board.

The Editorial Board and Global Journals Inc. (US) recommend that, citation of online-published papers and other material should be done via a DOI (digital object identifier). If an author cites anything, which does not have a DOI, they run the risk of the cited material not being noticeable.

The Editorial Board and Global Journals Inc. (US) recommend the use of a tool such as Reference Manager for reference management and formatting.

Tables, Figures and Figure Legends

Tables: Tables should be few in number, cautiously designed, uncrowned, and include only essential data. Each must have an Arabic number, e.g. Table 4, a self-explanatory caption and be on a separate sheet. Vertical lines should not be used.

Figures: Figures are supposed to be submitted as separate files. Always take in a citation in the text for each figure using Arabic numbers, e.g. Fig. 4. Artwork must be submitted online in electronic form by e-mailing them.

Preparation of Electronic Figures for Publication

Even though low quality images are sufficient for review purposes, print publication requires high quality images to prevent the final product being blurred or fuzzy. Submit (or e-mail) EPS (line art) or TIFF (halftone/photographs) files only. MS PowerPoint and Word Graphics are unsuitable for printed pictures. Do not use pixel-oriented software. Scans (TIFF only) should have a resolution of at least 350 dpi (halftone) or 700 to 1100 dpi (line drawings) in relation to the imitation size. Please give the data for figures in black and white or submit a Color Work Agreement Form. EPS files must be saved with fonts embedded (and with a TIFF preview, if possible).

For scanned images, the scanning resolution (at final image size) ought to be as follows to ensure good reproduction: line art: >650 dpi; halftones (including gel photographs): >350 dpi; figures containing both halftone and line images: >650 dpi.



Color Charges: It is the rule of the Global Journals Inc. (US) for authors to pay the full cost for the reproduction of their color artwork. Hence, please note that, if there is color artwork in your manuscript when it is accepted for publication, we would require you to complete and return a color work agreement form before your paper can be published.

Figure Legends: Self-explanatory legends of all figures should be incorporated separately under the heading 'Legends to Figures'. In the full-text online edition of the journal, figure legends may possibly be truncated in abbreviated links to the full screen version. Therefore, the first 100 characters of any legend should notify the reader, about the key aspects of the figure.

6. AFTER ACCEPTANCE

Upon approval of a paper for publication, the manuscript will be forwarded to the dean, who is responsible for the publication of the Global Journals Inc. (US).

6.1 Proof Corrections

The corresponding author will receive an e-mail alert containing a link to a website or will be attached. A working e-mail address must therefore be provided for the related author.

Acrobat Reader will be required in order to read this file. This software can be downloaded

(Free of charge) from the following website:

www.adobe.com/products/acrobat/readstep2.html. This will facilitate the file to be opened, read on screen, and printed out in order for any corrections to be added. Further instructions will be sent with the proof.

Proofs must be returned to the dean at dean@globaljournals.org within three days of receipt.

As changes to proofs are costly, we inquire that you only correct typesetting errors. All illustrations are retained by the publisher. Please note that the authors are responsible for all statements made in their work, including changes made by the copy editor.

6.2 Early View of Global Journals Inc. (US) (Publication Prior to Print)

The Global Journals Inc. (US) are enclosed by our publishing's Early View service. Early View articles are complete full-text articles sent in advance of their publication. Early View articles are absolute and final. They have been completely reviewed, revised and edited for publication, and the authors' final corrections have been incorporated. Because they are in final form, no changes can be made after sending them. The nature of Early View articles means that they do not yet have volume, issue or page numbers, so Early View articles cannot be cited in the conventional way.

6.3 Author Services

Online production tracking is available for your article through Author Services. Author Services enables authors to track their article once it has been accepted - through the production process to publication online and in print. Authors can check the status of their articles online and choose to receive automated e-mails at key stages of production. The authors will receive an e-mail with a unique link that enables them to register and have their article automatically added to the system. Please ensure that a complete e-mail address is provided when submitting the manuscript.

6.4 Author Material Archive Policy

Please note that if not specifically requested, publisher will dispose off hardcopy & electronic information submitted, after the two months of publication. If you require the return of any information submitted, please inform the Editorial Board or dean as soon as possible.

6.5 Offprint and Extra Copies

A PDF offprint of the online-published article will be provided free of charge to the related author, and may be distributed according to the Publisher's terms and conditions. Additional paper offprint may be ordered by emailing us at: editor@globaljournals.org.



Before start writing a good quality Computer Science Research Paper, let us first understand what is Computer Science Research Paper? So, Computer Science Research Paper is the paper which is written by professionals or scientists who are associated to Computer Science and Information Technology, or doing research study in these areas. If you are novel to this field then you can consult about this field from your supervisor or guide.

TECHNIQUES FOR WRITING A GOOD QUALITY RESEARCH PAPER:

- 1. Choosing the topic: In most cases, the topic is searched by the interest of author but it can be also suggested by the guides. You can have several topics and then you can judge that in which topic or subject you are finding yourself most comfortable. This can be done by asking several questions to yourself, like Will I be able to carry our search in this area? Will I find all necessary recourses to accomplish the search? Will I be able to find all information in this field area? If the answer of these types of questions will be "Yes" then you can choose that topic. In most of the cases, you may have to conduct the surveys and have to visit several places because this field is related to Computer Science and Information Technology. Also, you may have to do a lot of work to find all rise and falls regarding the various data of that subject. Sometimes, detailed information plays a vital role, instead of short information.
- 2. Evaluators are human: First thing to remember that evaluators are also human being. They are not only meant for rejecting a paper. They are here to evaluate your paper. So, present your Best.
- **3.** Think Like Evaluators: If you are in a confusion or getting demotivated that your paper will be accepted by evaluators or not, then think and try to evaluate your paper like an Evaluator. Try to understand that what an evaluator wants in your research paper and automatically you will have your answer.
- **4. Make blueprints of paper:** The outline is the plan or framework that will help you to arrange your thoughts. It will make your paper logical. But remember that all points of your outline must be related to the topic you have chosen.
- **5. Ask your Guides:** If you are having any difficulty in your research, then do not hesitate to share your difficulty to your guide (if you have any). They will surely help you out and resolve your doubts. If you can't clarify what exactly you require for your work then ask the supervisor to help you with the alternative. He might also provide you the list of essential readings.
- 6. Use of computer is recommended: As you are doing research in the field of Computer Science, then this point is quite obvious.
- 7. Use right software: Always use good quality software packages. If you are not capable to judge good software then you can lose quality of your paper unknowingly. There are various software programs available to help you, which you can get through Internet.
- **8. Use the Internet for help:** An excellent start for your paper can be by using the Google. It is an excellent search engine, where you can have your doubts resolved. You may also read some answers for the frequent question how to write my research paper or find model research paper. From the internet library you can download books. If you have all required books make important reading selecting and analyzing the specified information. Then put together research paper sketch out.
- 9. Use and get big pictures: Always use encyclopedias, Wikipedia to get pictures so that you can go into the depth.
- 10. Bookmarks are useful: When you read any book or magazine, you generally use bookmarks, right! It is a good habit, which helps to not to lose your continuity. You should always use bookmarks while searching on Internet also, which will make your search easier.
- 11. Revise what you wrote: When you write anything, always read it, summarize it and then finalize it.



- **12. Make all efforts:** Make all efforts to mention what you are going to write in your paper. That means always have a good start. Try to mention everything in introduction, that what is the need of a particular research paper. Polish your work by good skill of writing and always give an evaluator, what he wants.
- **13. Have backups:** When you are going to do any important thing like making research paper, you should always have backup copies of it either in your computer or in paper. This will help you to not to lose any of your important.
- **14. Produce good diagrams of your own:** Always try to include good charts or diagrams in your paper to improve quality. Using several and unnecessary diagrams will degrade the quality of your paper by creating "hotchpotch." So always, try to make and include those diagrams, which are made by your own to improve readability and understandability of your paper.
- **15. Use of direct quotes:** When you do research relevant to literature, history or current affairs then use of quotes become essential but if study is relevant to science then use of quotes is not preferable.
- **16. Use proper verb tense:** Use proper verb tenses in your paper. Use past tense, to present those events that happened. Use present tense to indicate events that are going on. Use future tense to indicate future happening events. Use of improper and wrong tenses will confuse the evaluator. Avoid the sentences that are incomplete.
- **17. Never use online paper:** If you are getting any paper on Internet, then never use it as your research paper because it might be possible that evaluator has already seen it or maybe it is outdated version.
- **18. Pick a good study spot:** To do your research studies always try to pick a spot, which is quiet. Every spot is not for studies. Spot that suits you choose it and proceed further.
- **19. Know what you know:** Always try to know, what you know by making objectives. Else, you will be confused and cannot achieve your target.
- **20. Use good quality grammar:** Always use a good quality grammar and use words that will throw positive impact on evaluator. Use of good quality grammar does not mean to use tough words, that for each word the evaluator has to go through dictionary. Do not start sentence with a conjunction. Do not fragment sentences. Eliminate one-word sentences. Ignore passive voice. Do not ever use a big word when a diminutive one would suffice. Verbs have to be in agreement with their subjects. Prepositions are not expressions to finish sentences with. It is incorrect to ever divide an infinitive. Avoid clichés like the disease. Also, always shun irritating alliteration. Use language that is simple and straight forward. put together a neat summary.
- 21. Arrangement of information: Each section of the main body should start with an opening sentence and there should be a changeover at the end of the section. Give only valid and powerful arguments to your topic. You may also maintain your arguments with records.
- **22. Never start in last minute:** Always start at right time and give enough time to research work. Leaving everything to the last minute will degrade your paper and spoil your work.
- 23. Multitasking in research is not good: Doing several things at the same time proves bad habit in case of research activity. Research is an area, where everything has a particular time slot. Divide your research work in parts and do particular part in particular time slot.
- **24. Never copy others' work:** Never copy others' work and give it your name because if evaluator has seen it anywhere you will be in trouble.
- **25. Take proper rest and food:** No matter how many hours you spend for your research activity, if you are not taking care of your health then all your efforts will be in vain. For a quality research, study is must, and this can be done by taking proper rest and food.
- 26. Go for seminars: Attend seminars if the topic is relevant to your research area. Utilize all your resources.



- **27. Refresh your mind after intervals:** Try to give rest to your mind by listening to soft music or by sleeping in intervals. This will also improve your memory.
- **28. Make colleagues:** Always try to make colleagues. No matter how sharper or intelligent you are, if you make colleagues you can have several ideas, which will be helpful for your research.
- 29. Think technically: Always think technically. If anything happens, then search its reasons, its benefits, and demerits.
- **30.** Think and then print: When you will go to print your paper, notice that tables are not be split, headings are not detached from their descriptions, and page sequence is maintained.
- **31.** Adding unnecessary information: Do not add unnecessary information, like, I have used MS Excel to draw graph. Do not add irrelevant and inappropriate material. These all will create superfluous. Foreign terminology and phrases are not apropos. One should NEVER take a broad view. Analogy in script is like feathers on a snake. Not at all use a large word when a very small one would be sufficient. Use words properly, regardless of how others use them. Remove quotations. Puns are for kids, not grunt readers. Amplification is a billion times of inferior quality than sarcasm.
- **32. Never oversimplify everything:** To add material in your research paper, never go for oversimplification. This will definitely irritate the evaluator. Be more or less specific. Also too, by no means, ever use rhythmic redundancies. Contractions aren't essential and shouldn't be there used. Comparisons are as terrible as clichés. Give up ampersands and abbreviations, and so on. Remove commas, that are, not necessary. Parenthetical words however should be together with this in commas. Understatement is all the time the complete best way to put onward earth-shaking thoughts. Give a detailed literary review.
- **33. Report concluded results:** Use concluded results. From raw data, filter the results and then conclude your studies based on measurements and observations taken. Significant figures and appropriate number of decimal places should be used. Parenthetical remarks are prohibitive. Proofread carefully at final stage. In the end give outline to your arguments. Spot out perspectives of further study of this subject. Justify your conclusion by at the bottom of them with sufficient justifications and examples.
- **34. After conclusion:** Once you have concluded your research, the next most important step is to present your findings. Presentation is extremely important as it is the definite medium though which your research is going to be in print to the rest of the crowd. Care should be taken to categorize your thoughts well and present them in a logical and neat manner. A good quality research paper format is essential because it serves to highlight your research paper and bring to light all necessary aspects in your research.

INFORMAL GUIDELINES OF RESEARCH PAPER WRITING

Key points to remember:

- Submit all work in its final form.
- Write your paper in the form, which is presented in the guidelines using the template.
- Please note the criterion for grading the final paper by peer-reviewers.

Final Points:

A purpose of organizing a research paper is to let people to interpret your effort selectively. The journal requires the following sections, submitted in the order listed, each section to start on a new page.

The introduction will be compiled from reference matter and will reflect the design processes or outline of basis that direct you to make study. As you will carry out the process of study, the method and process section will be constructed as like that. The result segment will show related statistics in nearly sequential order and will direct the reviewers next to the similar intellectual paths throughout the data that you took to carry out your study. The discussion section will provide understanding of the data and projections as to the implication of the results. The use of good quality references all through the paper will give the effort trustworthiness by representing an alertness of prior workings.

Writing a research paper is not an easy job no matter how trouble-free the actual research or concept. Practice, excellent preparation, and controlled record keeping are the only means to make straightforward the progression.

General style:

Specific editorial column necessities for compliance of a manuscript will always take over from directions in these general guidelines.

To make a paper clear

· Adhere to recommended page limits

Mistakes to evade

- Insertion a title at the foot of a page with the subsequent text on the next page
- Separating a table/chart or figure impound each figure/table to a single page
- Submitting a manuscript with pages out of sequence

In every sections of your document

- · Use standard writing style including articles ("a", "the," etc.)
- · Keep on paying attention on the research topic of the paper
- · Use paragraphs to split each significant point (excluding for the abstract)
- · Align the primary line of each section
- · Present your points in sound order
- · Use present tense to report well accepted
- · Use past tense to describe specific results
- · Shun familiar wording, don't address the reviewer directly, and don't use slang, slang language, or superlatives
- \cdot Shun use of extra pictures include only those figures essential to presenting results

Title Page:

Choose a revealing title. It should be short. It should not have non-standard acronyms or abbreviations. It should not exceed two printed lines. It should include the name(s) and address (es) of all authors.



Abstract:

The summary should be two hundred words or less. It should briefly and clearly explain the key findings reported in the manuscript—must have precise statistics. It should not have abnormal acronyms or abbreviations. It should be logical in itself. Shun citing references at this point.

An abstract is a brief distinct paragraph summary of finished work or work in development. In a minute or less a reviewer can be taught the foundation behind the study, common approach to the problem, relevant results, and significant conclusions or new questions.

Write your summary when your paper is completed because how can you write the summary of anything which is not yet written? Wealth of terminology is very essential in abstract. Yet, use comprehensive sentences and do not let go readability for briefness. You can maintain it succinct by phrasing sentences so that they provide more than lone rationale. The author can at this moment go straight to shortening the outcome. Sum up the study, with the subsequent elements in any summary. Try to maintain the initial two items to no more than one ruling each.

- Reason of the study theory, overall issue, purpose
- Fundamental goal
- To the point depiction of the research
- Consequences, including <u>definite statistics</u> if the consequences are quantitative in nature, account quantitative data; results of any numerical analysis should be reported
- Significant conclusions or questions that track from the research(es)

Approach:

- Single section, and succinct
- As a outline of job done, it is always written in past tense
- A conceptual should situate on its own, and not submit to any other part of the paper such as a form or table
- Center on shortening results bound background information to a verdict or two, if completely necessary
- · What you account in an conceptual must be regular with what you reported in the manuscript
- Exact spelling, clearness of sentences and phrases, and appropriate reporting of quantities (proper units, important statistics) are just as significant in an abstract as they are anywhere else

Introduction:

The **Introduction** should "introduce" the manuscript. The reviewer should be presented with sufficient background information to be capable to comprehend and calculate the purpose of your study without having to submit to other works. The basis for the study should be offered. Give most important references but shun difficult to make a comprehensive appraisal of the topic. In the introduction, describe the problem visibly. If the problem is not acknowledged in a logical, reasonable way, the reviewer will have no attention in your result. Speak in common terms about techniques used to explain the problem, if needed, but do not present any particulars about the protocols here. Following approach can create a valuable beginning:

- Explain the value (significance) of the study
- Shield the model why did you employ this particular system or method? What is its compensation? You strength remark on its appropriateness from a abstract point of vision as well as point out sensible reasons for using it.
- Present a justification. Status your particular theory (es) or aim(s), and describe the logic that led you to choose them.
- Very for a short time explain the tentative propose and how it skilled the declared objectives.

Approach:

- Use past tense except for when referring to recognized facts. After all, the manuscript will be submitted after the entire job is
 done.
- Sort out your thoughts; manufacture one key point with every section. If you make the four points listed above, you will need a
 least of four paragraphs.



- Present surroundings information only as desirable in order hold up a situation. The reviewer does not desire to read the whole thing you know about a topic.
- Shape the theory/purpose specifically do not take a broad view.
- As always, give awareness to spelling, simplicity and correctness of sentences and phrases.

Procedures (Methods and Materials):

This part is supposed to be the easiest to carve if you have good skills. A sound written Procedures segment allows a capable scientist to replacement your results. Present precise information about your supplies. The suppliers and clarity of reagents can be helpful bits of information. Present methods in sequential order but linked methodologies can be grouped as a segment. Be concise when relating the protocols. Attempt for the least amount of information that would permit another capable scientist to spare your outcome but be cautious that vital information is integrated. The use of subheadings is suggested and ought to be synchronized with the results section. When a technique is used that has been well described in another object, mention the specific item describing a way but draw the basic principle while stating the situation. The purpose is to text all particular resources and broad procedures, so that another person may use some or all of the methods in one more study or referee the scientific value of your work. It is not to be a step by step report of the whole thing you did, nor is a methods section a set of orders.

Materials:

- Explain materials individually only if the study is so complex that it saves liberty this way.
- Embrace particular materials, and any tools or provisions that are not frequently found in laboratories.
- Do not take in frequently found.
- If use of a definite type of tools.
- Materials may be reported in a part section or else they may be recognized along with your measures.

Methods:

- Report the method (not particulars of each process that engaged the same methodology)
- Describe the method entirely
- To be succinct, present methods under headings dedicated to specific dealings or groups of measures
- Simplify details how procedures were completed not how they were exclusively performed on a particular day.
- If well known procedures were used, account the procedure by name, possibly with reference, and that's all.

Approach:

- It is embarrassed or not possible to use vigorous voice when documenting methods with no using first person, which would focus the reviewer's interest on the researcher rather than the job. As a result when script up the methods most authors use third person passive voice.
- Use standard style in this and in every other part of the paper avoid familiar lists, and use full sentences.

What to keep away from

- Resources and methods are not a set of information.
- Skip all descriptive information and surroundings save it for the argument.
- Leave out information that is immaterial to a third party.

Results:

The principle of a results segment is to present and demonstrate your conclusion. Create this part a entirely objective details of the outcome, and save all understanding for the discussion.

The page length of this segment is set by the sum and types of data to be reported. Carry on to be to the point, by means of statistics and tables, if suitable, to present consequences most efficiently. You must obviously differentiate material that would usually be incorporated in a study editorial from any unprocessed data or additional appendix matter that would not be available. In fact, such matter should not be submitted at all except requested by the instructor.



Content

- Sum up your conclusion in text and demonstrate them, if suitable, with figures and tables.
- In manuscript, explain each of your consequences, point the reader to remarks that are most appropriate.
- Present a background, such as by describing the question that was addressed by creation an exacting study.
- Explain results of control experiments and comprise remarks that are not accessible in a prescribed figure or table, if appropriate.
- Examine your data, then prepare the analyzed (transformed) data in the form of a figure (graph), table, or in manuscript form.

What to stay away from

- Do not discuss or infer your outcome, report surroundings information, or try to explain anything.
- Not at all, take in raw data or intermediate calculations in a research manuscript.
- Do not present the similar data more than once.
- Manuscript should complement any figures or tables, not duplicate the identical information.
- Never confuse figures with tables there is a difference.

Approach

- As forever, use past tense when you submit to your results, and put the whole thing in a reasonable order.
- Put figures and tables, appropriately numbered, in order at the end of the report
- If you desire, you may place your figures and tables properly within the text of your results part.

Figures and tables

- If you put figures and tables at the end of the details, make certain that they are visibly distinguished from any attach appendix materials, such as raw facts
- Despite of position, each figure must be numbered one after the other and complete with subtitle
- In spite of position, each table must be titled, numbered one after the other and complete with heading
- All figure and table must be adequately complete that it could situate on its own, divide from text

Discussion:

The Discussion is expected the trickiest segment to write and describe. A lot of papers submitted for journal are discarded based on problems with the Discussion. There is no head of state for how long a argument should be. Position your understanding of the outcome visibly to lead the reviewer through your conclusions, and then finish the paper with a summing up of the implication of the study. The purpose here is to offer an understanding of your results and hold up for all of your conclusions, using facts from your research and accepted information, if suitable. The implication of result should he visibly described. generally Infer your data in the conversation in suitable depth. This means that when you clarify an observable fact you must explain mechanisms that may account for the observation. If your results vary from your prospect, make clear why that may have happened. If your results agree, then explain the theory that the proof supported. It is never suitable to just state that the data approved with prospect, and let it drop at that.

- Make a decision if each premise is supported, discarded, or if you cannot make a conclusion with assurance. Do not just dismiss a study or part of a study as "uncertain."
- Research papers are not acknowledged if the work is imperfect. Draw what conclusions you can based upon the results that you have, and take care of the study as a finished work
- You may propose future guidelines, such as how the experiment might be personalized to accomplish a new idea.
- Give details all of your remarks as much as possible, focus on mechanisms.
- Make a decision if the tentative design sufficiently addressed the theory, and whether or not it was correctly restricted.
- Try to present substitute explanations if sensible alternatives be present.
- One research will not counter an overall question, so maintain the large picture in mind, where do you go next? The best studies unlock new avenues of study. What questions remain?
- Recommendations for detailed papers will offer supplementary suggestions.

Approach:

- When you refer to information, differentiate data generated by your own studies from available information
- Submit to work done by specific persons (including you) in past tense.
- Submit to generally acknowledged facts and main beliefs in present tense.



THE ADMINISTRATION RULES

Please carefully note down following rules and regulation before submitting your Research Paper to Global Journals Inc. (US):

Segment Draft and Final Research Paper: You have to strictly follow the template of research paper. If it is not done your paper may get rejected.

- The **major constraint** is that you must independently make all content, tables, graphs, and facts that are offered in the paper. You must write each part of the paper wholly on your own. The Peer-reviewers need to identify your own perceptive of the concepts in your own terms. NEVER extract straight from any foundation, and never rephrase someone else's analysis.
- Do not give permission to anyone else to "PROOFREAD" your manuscript.
- Methods to avoid Plagiarism is applied by us on every paper, if found guilty, you will be blacklisted by all of our collaborated research groups, your institution will be informed for this and strict legal actions will be taken immediately.)
- To guard yourself and others from possible illegal use please do not permit anyone right to use to your paper and files.



$\begin{array}{c} \text{Criterion for Grading a Research Paper (Compilation)} \\ \text{By Global Journals Inc. (US)} \end{array}$

Please note that following table is only a Grading of "Paper Compilation" and not on "Performed/Stated Research" whose grading solely depends on Individual Assigned Peer Reviewer and Editorial Board Member. These can be available only on request and after decision of Paper. This report will be the property of Global Journals Inc. (US).

Topics	Grades		
	А-В	C-D	E-F
Abstract	Clear and concise with appropriate content, Correct format. 200 words or below	Unclear summary and no specific data, Incorrect form Above 200 words	No specific data with ambiguous information Above 250 words
Introduction	Containing all background details with clear goal and appropriate details, flow specification, no grammar and spelling mistake, well organized sentence and paragraph, reference cited	Unclear and confusing data, appropriate format, grammar and spelling errors with unorganized matter	Out of place depth and content, hazy format
Methods and Procedures	Clear and to the point with well arranged paragraph, precision and accuracy of facts and figures, well organized subheads	Difficult to comprehend with embarrassed text, too much explanation but completed	Incorrect and unorganized structure with hazy meaning
Result	Well organized, Clear and specific, Correct units with precision, correct data, well structuring of paragraph, no grammar and spelling mistake	Complete and embarrassed text, difficult to comprehend	Irregular format with wrong facts and figures
Discussion	Well organized, meaningful specification, sound conclusion, logical and concise explanation, highly structured paragraph reference cited	Wordy, unclear conclusion, spurious	Conclusion is not cited, unorganized, difficult to comprehend
References	Complete and correct format, well organized	Beside the point, Incomplete	Wrong format and structuring



INDEX

Tachysystole ⋅ 6 Tuméfaction ⋅ 10, 13

C Caesarean · 24, 27, 28, 29 Carcinoid · 19 Coelioscopie · 13 D Dinoprostone · 5, 7 \overline{H} Hyperstimulation · 3, 6 Ifosfamide · 19, 20 Immunostain · 18 Isosorbide · 1, 6 Lambeaux · 12 M $\text{Misoprostol} \cdot \mathbf{1}$ N Neuroectodermal · 18, 20, 22 S Sarcoma · 18, 19, 20, 22 T

V

Vincristine · 19



Global Journal of Medical Research

Visit us on the Web at www.GlobalJournals.org | www.MedicalResearchJournal.org or email us at helpdesk@globaljournals.org





122N 9755896