



**InterConf**  
Scientific Publishing Center

December 16-18,  
**2019**

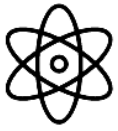
# SCIENTIFIC RESEARCH IN XXI CENTURY



Proceedings of the 1<sup>st</sup>  
International Scientific and  
Practical Conference

**OTTAWA, CANADA**

**16-18.12.2019**



**InterConf**  
Scientific Publishing Center

# **SCIENTIFIC RESEARCH IN XXI CENTURY**

Proceedings of the 1st International Scientific and Practical Conference

OTTAWA, CANADA

**16-18.12.2019**

OTTAWA  
2019

UDC 001.1

S 40 Proceedings of the 1<sup>st</sup> International Scientific and Practical Conference «Scientific Research in XXI Century» (December 16-18, 2019). Ottawa, Canada: Methuen Publishing House, 2019. 190 p.

ISBN 978-0-458-20903-3

EDITOR	COORDINATOR
Richard Brouillet LL.B. University of Ottawa, Canada	Mariia Granko Coordination Director in Ukraine Scientific Publishing Center InterConf
EDITORIAL BOARD	
Dr. David Apsley (DSc. in Engineering), The University of Manchester, UK; Dr. Craig Griffiths (DSc. in History), Manchester Metropolitan University, UK; Dr. Albena Yaneva (DSc. in Sociology and Antropology), Manchester School of Architecture, UK; Dr. Ece Özlem Atikcan (DSc. in Political Science), The University of Warwick, UK; Dr. Dina Iordanova (DSc in Art History), School of Philosophical, Anthropological and Film Studies, University of St Andrews, UK; Richard Brouillet (LL.B.), University of Ottawa, Canada; Vincent Caron (LL.D.), University of Ottawa, Canada; Brian King (PhD in Economics), HEC Montréal, Canada; Yasser Rahrovani (PhD in Engineering), Ivey School of Business, The University of Western Ontario, Canada; Dr. Samer Faraj (DSc in Economics), McGill University, Canada; Scott Patrick Ardoin (PhD in School Psychology), University of Georgia, USA; Michael M. Barger (PhD in Developmental Psychology), Duke University, USA;	Laine P. Bradshaw (PhD in Research, Evaluation, Measurement, and Statistics), University of Georgia, USA; Sycarah Fisher (PhD in School Psychology), Michigan State University, USA; Todd Dinkelman (PhD. in Curriculum and Instruction), University of Wisconsin, USA; Jack Anderson (PhD in Law), The University of Melbourne, Australia; Graeme Austin (LL.D.), The University of Melbourne, Australia; Elise Bant (LL.D.), The University of Sydney, Australia; Katy Barnett (LL.B.), The University of Newcastle, Australia; Paul Ali (PhD), Australian National University, Australia; Kanako Tanaka (PhD in Engineering), Japan Science and Technology Agency, Japan; Dr. Eiji Nishiura (DSc in Engineering), Japan Technology Agency, Japan; Dr. Shunsuke Managi (DSc in Civil Engineering), Kyushu University, Japan; Kae Takase (PhD in Electrical Engineering and Information Systems), The University of Tokyo, Japan.

**The recommended citation:**

Surname N. Title of article or abstract. *Scientific Research in XXI Century*: Proceedings of the 1st International Scientific and Practical Conference (December 16-18, 2019), Ottawa, Canada: Methuen Publishing House, 2019. pp. 21-27. URL: [https://interconf.top/...](https://interconf.top/)

PhD students, teachers, scientists, research workers of higher educational institutions, research institutes and industrial enterprises are invited to participate in the conference. The conference provides an interdisciplinary forum for researchers, practitioners and scholars to present and discuss the most recent innovations and developments in modern science. The aim of conference is to enable academics, researchers, practitioners and college students to publish their research findings, ideas, developments, and innovations.

©2019 Peal Press Ltd.  
 ©2019 Scientific Publishing Center InterConf  
 ©2019 Authors of the abstracts

## TABLE OF CONTENTS

**ACCOUNTING AND AUDITING**

Rahulina I.	TAX CONTROL – THEORY AND PRACTICE: CONTEMPORARY ASPECT	5
Дорошук Н.В., Остап'юк Н.А.	СУТНІСТЬ МАТЕРІАЛЬНИХ ВИТРАТ ТА ЇХ ПОДАТКОВЕ НАВАНТАЖЕННЯ НА ПІДПРИЄМСТВО	10

**AGROTECHNOLOGIES AND AGRICULTURAL INDUSTRY**

Станкевич С.В.	ЗАЩИТА ОТ АМЕРИКАНСКОЙ БЕЛОЙ БАБОЧКИ (HYRPHANTRIA CUNEA DRURY, 1773) В ВОСТОЧНОЙ ЛЕСОСТЕПИ УКРАИНЫ	14
----------------	--	----

**ARTS, CULTURAL STUDIES AND ETHNOGRAPHY**

Балбус Т.А.	ОРНАМЕНТАЛЬНІ І СЮЖЕТНІ РОЗПИСИ УКРАЇНСЬКИХ СКРИНЬ	20
Булах Г.В.	МУЗЫКАЛЬНЫЙ КВЕСТ: «В ПОИСКАХ ГОСПОЖИ МЕЛОДИИ»	35
Лукашук Б.Ю., Хом'як Л.В.	ПРОСТОРОВА КОМПОЗИЦІЙ У СИНТИЗИ ІЗ СВІТЛОМ, КОЛЬОРОМ, ТА ФОРМОЮ	40
Новачинський Ю.М.	ЕВОЛЮЦІЯ НЕТ-АРТУ В КОНТЕКСТІ СУЧАСНОЇ ЦИФРОВОЇ ДОБИ	43
Рахлеева Н.Н.	ЦЕННЫЙ ИСТОЧНИК В ИЗУЧЕНИИ ШАМАНСТВА	51

**BUSINESS ECONOMICS**

Мельник Б.Л.	ХАРАКТЕРИСТИКА ПІДХОДІВ ДО ОЦІНЮВАННЯ БІЗНЕС-ПРОЦЕСІВ ПІДПРИЄМСТВ	55
--------------	---	----

**ENERGETICS**

Ільїн С.В., Іванісова А.П., Черненко А.В.	ПРО НЕДОЛІКИ ВИКОРИСТАННЯ УЛЬТРАЗВУКУ ДЛЯ ІНТЕНСИФІКАЦІЇ ПРОЦЕСІВ ТЕПЛООБМІНУ В РІДИНІ	60
Чейлітко А.О., Єрофеева А.А.	ЯКІСНЕ НАГРІВАННЯ МЕТАЛУ У КАМЕРНІЙ ПЕЧІ	64

**FINANCE AND CREDIT**

Чеберяко О.В., Бикова В.О.	ПРОТИРІЧЧЯ ФІНАНСОВОЇ ДЕЦЕНТРАЛІЗАЦІЇ В УКРАЇНІ	69
-------------------------------	---	----

**INFORMATION AND WEB TECHNOLOGIES**

Яровенко Г.М., Онопко Ю.Д.	МОДЕЛЮВАННЯ БІЗНЕС-ПРОЦЕСІВ АВТОМАТИЗОВАНОГО ВНУТРІШНЬОГО АУДИТУ ДІЯЛЬНОСТІ ПРАЦІВНИКІВ БАНКУ	73
-------------------------------	---	----

**INTERNATIONAL ECONOMICS AND INTERNATIONAL RELATIONS**

Soloviova A.	THE ROLE OF NGOs AND THEIR SOCIAL NETWORKS IN ESTABLISHING CULTURAL COOPERATION BETWEEN UKRAINE AND THE BENELUX COUNTRIES	76
--------------	---	----

**LAW AND INTERNATIONAL LAW**

Возняковська К.А.	ПЕРЕДУМОВИ СТАЛОГО ПРАВОВОГО РЕЖИМУ НЕСПРОМОЖНОСТІ БАНКІВ	82
Шандигаєва К.Р.	ЗЛОЧИННА НЕДБАЛІСТЬ ЯК ОДИН ІЗ ВИДІВ ЗЛОЧИНУ,ЩО ПРИВОДИТЬ ДО НЕОБЕЕЖНОЇ ФОРМИ ВИНИ	86

**MANAGEMENT**

Semenchuk T., Sorokun Yu.	THE USE OF «LEAN MANUFACTURING» CONCEPT IN MANAGEMENT OF TRANSPORT ENTERPRISE	89
------------------------------	---	----

Zotova O., Minchenko V., Diachenko Yu.	STRATEGIC HUMAN RESOURCE MANAGEMENT IN CONDITIONS OF EDUCATION INSTITUTIONS TRANSFORMATIO	92
<b>MEDICINE AND PHARMACY</b>		
Deinichenko O. Krut` Yu.	MODERN ATTEMPTS AT DRUG TREATMENT OF FETAL GROWTH RETARDATION IN DIFFERENT TERMS OF PREGNANCY	100
<b>MILITARY AFFAIRS AND NATIONAL SECURITY</b>		
Maistrenko O., Bubenshchykov R., Stetsiv S., Stegura S.	USE OF LOTKA-VOLTERRA DIFFERENTIAL EQUATIONS FOR THE CREATION OF THE MODEL OF COMBAT USE OF MILITARY FORMATION IN THE MUTUAL FIRE CONDITIONS	104
<b>NATURE MANAGEMENT, RESOURCE SAVING AND ECOLOGY</b>		
Грунтковська Т.Г.	БІОЦЕНОЗИ ДОЛИНИ РІЧКИ БЕРДА В ПІВНІЧНОМУ ПРИАЗОВ'І	114
Kramarova Yu., Agarwal A., Gul A.	COMPARATIVE ANALYSIS OF THE EFFECTIVENESS OF VARIOUS METHODS OF WATER PURIFICATION IN INDIA	124
<b>PEDAGOGY AND EDUCATION</b>		
Варнавська І.В.	СПЕЦИФІКА ВИКОРИСТАННЯ КЕЙС-МЕТОДУ НА ЗАНЯТТЯХ З УКРАЇНСЬКОЇ МОВИ (ЗА ПРОФЕСІЙНИМ СПРЯМУВАННЯМ)	129
Дячкова В.Б.	PISA ВІДКРИЛА НЕДОЛІКИ МАТЕМАТИЧНОЇ ОСВІТИ	138
Калініна О.С.	РОЗВИТОК ВІЗУАЛЬНОЇ КУЛЬТУРИ СТУДЕНТІВ ЗА ДОПОМОГОЮ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІ	147
Станиченко О.Ф.	ВИХОВНІ СИТУАЦІЇ З ЛЯЛКОЮ-ПЕРСОНОЮ ЯК ЗАСІБ ФОРМУВАННЯ ЧУЙНОСТІ У ДОШКІЛЬНИКІВ	150
<b>PHILOLOGY AND LINGUISTIC</b>		
Kurmambayeva Z., Ayarova T.	CHILDREN'S COGNITIVE DEVELOPMENT AND THE NUMERALS	154
Zaluzhna M.	METAPHORICAL REPRESENTATION OF UNCERTAINTY IN I. MCEWAN'S NOVEL «SATURDAY»	159
Лагдан С.П.	СТИЛЬОВЕ ВИКОРИСТАННЯ ФЕМІНІТИВІВ В УКРАЇНСЬКІЙ МОВІ	163
Жумагулова А.А., Сыздыкова Г.О.	ЯЗЫК И ЭКОЛОГИЯ: КОНТЕНТ-АНАЛИЗ ЛИНГВОЭКОЛОГИИ КАК НОВОЙ ОБЛАСТИ ИССЛЕДОВАНИЙ	171
<b>PHYSICAL EDUCATION AND SPORTS</b>		
Ціпов'яз А.Т., Шумейко Д.А.	КОЛОВЕ ТРЕНУВАННЯ ЯК ЕФЕКТИВНИЙ ЗАСІБ ІНДИВІДУАЛЬНОГО ОЦІНЮВАННЯ ФІЗИЧНОЇ ПІДГОТОВЛЕННОСТІ СТУДЕНТІВ	177
<b>PSYCHOLOGY AND PSYCHIATRY</b>		
Маєвська О.О.	ФОРМУВАННЯ ПСИХОЛОГІЧНОЇ ГОТОВНОСТІ ПЕДАГОГІВ ДО ВПРОВАДЖЕННЯ ІННОВАЦІЙНИХ ОСВІТНІХ ТЕХНОЛОГІЙ В СУЧАСНИХ ПОЗАШКІЛЬНИХ ОРГАНІЗАЦІЯХ	182

**MEDICINE AND PHARMACY**

UDC 612.1/8

**Olena Deinichenko**

Postgraduate Student, Department of Obstetrics and Gynecology

Zaporizhzhia State Medical University, Ukraine

**Krut` Yuriy Yakovlevich**

MD, Professor, Head of the Department of Obstetrics and Gynecology

Zaporizhzhia State Medical University, Ukraine

**MODERN ATTEMPTS AT DRUG TREATMENT OF FETAL GROWTH  
RETARDATION IN DIFFERENT TERMS OF PREGNANCY**

Diagnosis, treatment, and prevention of fetal growth retardation (FGR) is one of the urgent problems of modern obstetrics [1–6]. According to various authors [4,5], the prevalence of this syndrome in various obstetric pathologies ranges from 11% to 36%. In recent years, the incidence of FGR syndrome has been increasing. This is due to both the improvement of antenatal diagnosis and the instability of socio-economic conditions in modern society [1-3]. Currently, risk factors for the formation of FGR have been identified: extragenital and obstetric pathology, intrauterine infection, poor ecology, smoking and the use of alcohol and drugs by pregnant women, and adverse effects of drugs [5]. However, so far these factors have not been systematized. It has been established that perinatal losses in the case of FGR syndrome significantly depend on the body weight of the baby at birth and remain over 90% among premature infants [4-6]. The combination of FGR with prematurity is a high risk of neonatal pathology. This determines the medical and social significance of the problem and the development of treatments for these conditions.

The choice of treatment regimen is based on the severity of the degree of intrauterine malnutrition of the child, fetoplacental insufficiency and the condition of the fetus [5]. The therapy of FGR includes measures aimed at improving blood circulation in the system "mother - placenta - fetus". It is believed that treatment of FGR is effective if started before the 20th week of pregnancy. Conducted at a later date, although it increases resistance to hypoxia, improves the condition of the fetus, however, it does not completely normalize it, and ensure adequate growth of the fetus.

At present, the main place in the treatment of FGR is drug therapy, which helps to normalize not only the tone of the uterus, but also eliminate circulatory disorders in the system "mother - placenta - fetus". There are known cases of the use of drugs of antispasmodic action, tocolytics. Antiplatelet agents are widely used: dipyridamole, acetylsalicylic acid, xanthinol nicotinate. With severe hypercoagulation, antiphospholipid syndrome, it is advisable to prescribe heparin or its derivatives (fraksiparin, clexane), which, normalizing tissue hemostasis. In the treatment of FGR, a mandatory component is metabolic therapy: cocarboxylase, vitamins, antioxidants, the use of hyperbaric oxygenation, ozone therapy. In order to stabilize the structural and functional properties of cell membranes, enhance antioxidant protection and improve fetal trophism, vitamin E and phospholipids are used. According to some authors, therapy also includes actovegin, which has an antihypoxic effect. In case of FGR, oxygen therapy is also indicated, in the form of inhalations. Today, the intravenous administration of an ozonized isotonic solution of sodium chloride has not lost its therapeutic value as a means of reducing vascular spasm, improving microcirculation and blood flow in the arterial vessels of the placenta, and normalizing the condition of the fetus during hypoxia. Dextran and solutions based on hydroxyethyl starch are also effective, contributing to the correction of hypovolemia, improving the rheological properties of blood, normalizing microcirculation in the placenta, as well as reducing resistance in the uterine arteries during preeclampsia (which can significantly reduce perinatal mortality). Infusions of freshly frozen plasma are indicated for violations in the plasma (coagulation) unit of the hemostatic system,



hypoproteinemia (it is possible to use preparations containing amino acids). Modern science has proved that endogenous nitrogen monoxide (NO) is an effective regulator of numerous vital processes in the human body, including blood circulation at all its levels. The only endogenous donor of the NO radical is the amino acid arginine; therefore, a number of researchers consider it appropriate to prescribe L-arginine in the treatment of FGR [7-11].

The introduction of modern diagnostic technologies (ultrasound, dopplerometry, cardiotocography) into practical public health made it possible to reduce the number of children with growth retardation [1–7]. However, high morbidity and mortality among full-term and premature infants that do not decrease despite existing treatment methods indicate that existing treatment methods are not effective enough, and it makes it promising to develop new methods for the prevention of the development of FGR.

#### References:

1. Egorova YaA, Zabolotnov VA, Rybalka AN. Zaderzhka vnutriutrobnogo razvitiya ploda v perinatalnoj medicine (obzor) [Fetal growth retardation in perinatal medicine (review)]. *Zdorove zhenshchiny* 2015; 4(100): 48-51. Russian.
2. Kolokot NH. Udoskonalennia diahnostryky zatrymky rostu ploda u vahitnykh shliakhom vykorystannia biokhimichnykh markeriv, shcho kharakteryzuiut porushennia stres adaptatsii [Improvement of fetus growth restriction diagnostics in pregnant women by means of biochemical markers that characterize the disorder of stress-adaptation]. *Zaporozhskij medicinskij zhurnal*. 2018; 2(107): 231-235. Doi 10.14739/2310-1210. 2018.2.125275. Ukrainian.
3. Korostil MO, Chorna OO. Zatrymka rostu ploda pry donoshenii i nedonoshenii vahitnosti [Fetal growth retardation in term and premature pregnancy]. *Akusherstvo. Hinekoloheia. Henetyka*. 2016; 1: 20-23. Ukrainian.
4. Jacqueline EAK, Bamfo Anthony O, Odibo. Diagnosis and management of fetal growths restriction. *Journal of pregnancy*. 2011; Article ID 640715, doi: 10.1155/2011/640715.
5. Kosilova SYe. Akusherski ta perynatalni uskladnennia, yak faktory ryzyku zatrymky rostu ploda [Obstetrical and perinatal complications as risk factors of fetal growth retardation]. *Bukovynskiy medychnyi visnyk*. 2016; 20, 2(78): 48-50. Ukrainian.



6. Korol TM. Fetoplatsentarna nedostatnist (FPN) – aktualna problema medytsyny. Kliniko-etipatohenetychni kryterii diahnostryky, likuvannia ta profilaktyky [Fetoplacental insufficiency (FPN) – actual problem of medicine. Clinical-etio-pathogenetical diagnostic criteria, treatment and prevention]. *Visnyk problem biolohii i medytsyny*, 2013; 1(2): 49-54. Ukrainian.
7. Zhuk S.I. Placental dysfunction and naturopathic methods of its treatment / SI Zhuk, NO Dankovich, E. Sh. Ablyayeva // *Women's health*. .
8. Application of L-arginine in complex therapy of fetoplacental dysfunction / AV Boychuk, A. Yu. Franchuk, IM Nikitina [and others] // *Topical issues of pediatrics, obstetrics and gynecology*.— 2011.— № 1 .— P. 81–85.
9. Solovyova NV Physicochemical assessment of the possibility of using nitric oxide as an effective regulator of many pathologies in the human body. - 2014.— Vol. 14, No. 4 (48). - P. 223-225.
10. Endothelial dysfunction after pregnancy-induced hypertension / A. C. Henriques, F. H. Carvalho, H. N. Feitosa [et al.] // *Int. J. Gynaecol. Obstet.*— 2014.— Vol. 124 (3). P. 230-234
11. Ministry of Health of Ukraine Decree No. 782 of 29.12.2005 “On Approval of Clinical Protocols on Obstetric and Gynecological Assistance”. - URL: [www. https // zakon.rada.gov.ua/rada/show/v0782282-05](http://www.zakon.rada.gov.ua/rada/show/v0782282-05)