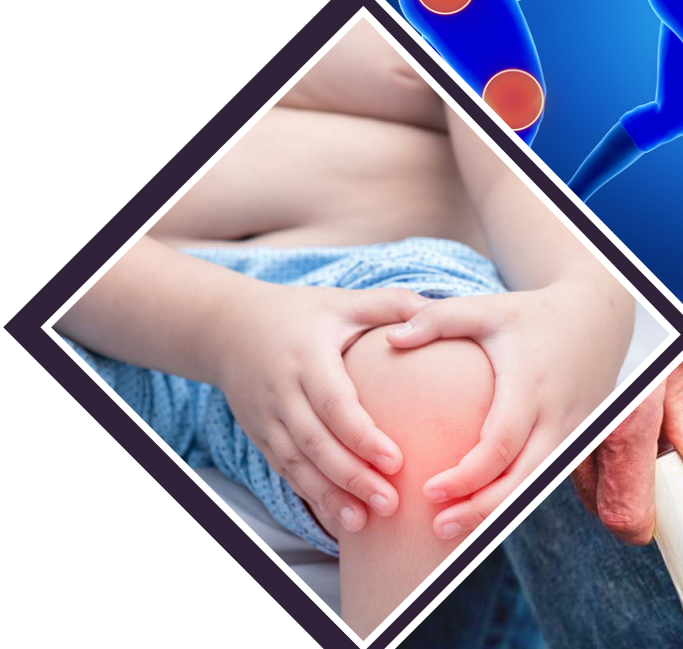
February 2019 Volume 3
Journal of Surgery & Clinical Practice

Meetings International
101st Conference









International Conference on

Orthopedics & Advanced Care

&

International Conference on

Obesity & Its Treatments

February 25-26, 2019 | Singapore City, Singapore



Organizational Representations

Media Partners

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28 Maxwell Road, #03-05 Red Dot Traffic, Singapore (069120)
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February 25, 2019 | **Conference Agenda** | **Day 1**

Conference Hall: Hall

08:30-09:00 Registration

09:00-09:10 Introduction by Moderator

09:15-10:00

Workshop

Title: To review TCM and the current practices for lower back pain management for a lasting effect.

Wong Boh Boi, Wong Boh Boi Pvt Ltd, Singapore

10:00-10:30

Keynote Forum

Title: The integrated Spring-Mass model approach to treating Thoracic Outlet syndrome

James Stoxen, Team Doctors Treatment Center, USA

10:30-11:00

Title: Why patients with knee pain still have symptoms despite the use of anti-inflammatory medications?

Huang Wei Ling, Medical Acupuncture and Pain Management Clinic, Brazil

Networking & Refreshment Break 11:00-11:20 @ Seletar Room 2

11:20-11:50

Title: Expression levels of obesity - related genes in high fat diet (HFD) induced experimental animals: Impact of combination therapy of anti-obesity drugs

P Venkataraman, SRM Institute of Science and Technology, India

11:50-12:35

Workshop

Tilte: Can metallic surgical implants influence the body's health?

Huang Wei Ling, Medical Acupuncture and Pain Management Clinic, Brazil

Oral Session I:
Exercise and Sports Medicine | Orthotics and Prosthetics | Orthopedic Surgery | Arthroplasty and Associated Infections | 3D Printing Orthopedics & Robotics | Osteoarticular Infections | Musculoskeletal Injury and Repair

Session Chair: **Wong Boh Boi,** Wong Boh Boi Pvt Ltd, Singapore
Co-chair: **James Stoxen,** Team Doctors Treatment Center, USA

12:35-12:55

Title: High Fibular Osteotomy (HFO) for medial compartmental arthritis of knee with varus deformity in Indian subcontinent

Shah Kushal V, Parul Sevasharam Hospital, India

Group Photo 12:55-13:05 @ Seletar Room 2

Lunch Break 13:05-14:00 @ Seletar Room 2

14:00-14:20	**Title: Functional navigation in hip resurfacing using the corin optimized positioning system** **Waters G,** Fiona Stanley Fremantle Hospitals Group, Australia
14:20-14:40	**Title: Effect of hamstring stretch pelvic control on pain, disability and work ability index in dentist with mechanical low back pain** **Priyanka Rishi,** SGT University, India
14:40-15:00	**Title: What's new in Hallux Valgus treatment?** **Morteza Rajai,** Iran University of Medical Sciences, Iran
15:00-15:20	**Title: Effectiveness of cervical stabilization exercises on respiratory strength in chronic neck pain patients with forward head posture- A pilot study** **Sonia Pawaria,** SGT University, India
15:20-15:40	**Title: A unique case of Latissimus Dorsi Tendon Avulsion injury in an athlete cycling anabolic steroids and successful delayed repair utilizing an intracortical button technique** **Waters G,** Fiona Stanley Fremantle Hospitals Group, Australia
15:40-16:00	**Title: Efficacy of the functional mobilization approach in young adults with Patellofemoral Pain Syndrome: A randomized clinical trial** **Supriya Awasthi,** School of Allied Health Sciences, India

Networking & Refreshment Break 16:00-16:20 @ Seletar Room 2

16:20-16:40	**Title: Shoulder and elbow tendinitis as initial manifestation of autoimmune hepatitis** **Huang Wei Ling,** Medical Acupuncture and Pain Management Clinic, Brazil
16:40-17:00	**Title: Cardiac fitness and mental health of post menopusal women in Gurugram India** **Sheetal Kalra,** SGT University, India
17:00-17:20	**Title: Audit on the compliance to 2016 ESSKA Meniscus Consensus on the management of degenerative meniscus lesions among patients undergoing arthroscopy +/- partial meniscectomy in an elective orthopaedic unit (United Kingdom)** **Nina V. Dela Cruz,** Imperial College Healthcare NHS Trust, UK

February 26, 2019 **Day 2**

keynote Forum

09:30-10:00	**Title: Why orthopedic patients still catch hospital infections despite the practice of infection prevention and control programs & can hospital Osteomyelitis be treated without the use of antibiotics?** **Huang Wei Ling,** Medical Acupuncture and Pain Management Clinic, Brazil
10:00-10:30	**Title: Integrated role of yoga and physiotherapy in sports injuries prevention** **Sheetal Kalra,** SGT University, India
10:30-11:00	**Title: A modified Sayre's technique, for correction of congenital Radial Club Hand Deformity** **Abdulrahim Aljayar,** Aljala Teaching Trauma Hospital, Libya

Networking & Refreshment Break 16:00-16:20 @ Seletar Room 2

Oral Session II:
Computed Tomography | Molecular Imaging, Functional Imaging and Integrated Therapy | Radiography

Session Chair: **James Stoxen,** Team Doctors Treatment Center, USA
Co-chair: **Abdulrahim Aljayar,** Aljala Teaching Trauma Hospital, Libya

11:20-11:40
Title: Anatomical variants of the circle of willis: A computed tomography angiography based study
Arathy Mary John, Manipal Academy of Higher Education, India

11:40-12:00
Title: Assessment of RV function in ASD by using tissue doppler imaging and strain rate imaging
Keerthana Wilson, Yenepoya Medical College, India

12:00-12:20
Video Presentation
Title: The effect of flaxseed powder & oil on reduction of hyperglycemia and associated parameters in Streptozotocin-induced diabetic rats
Suha Hashim Abduljawad, Taibah University, Saudi Arabia

Young Researchers Forum
YRF Judge: Abdulrahim Aljayar, Aljala Teaching Trauma Hospital, Libya

12:20-12:40
Title: Robotic equipment in upper limb amputations
O Fadili, University Hassan, Morocco

12:40-13:00
Title: Ganglion cyst of Hoffa's fat pad of knee-a rare cause of anterior knee pain and swelling
Rakesh Goyal, Lok Nayak Hospital and Maulana Azad Medical College, India

Lunch Break 13:00-14:00 @ Seletar Room 2

14:00-14:20
Title: A rare case of traumatic posterior dislocation of hip in a 7 year old child following trivial trauma
Rakesh Goyal, Lok Nayak Hospital and Maulana Azad Medical College, India

14:20-14:40
Title: Management of Medial Patellofemoral ligament injury- A case report
Hiren Sarma, Solace Hospital and Research Centre, India

14:40-15:00
Title: A rare case of giant cell tumor of tendon sheath of Hoffa's fat pad of knee misdiagnosed as ganglion cyst
Rakesh Goyal, Lok Nayak Hospital and Maulana Azad Medical College, India

15:00-15:20
Title: A two-pointer filtering method on breast ultrasound images (BUS) to improve segmentation with traditional algorithms
Rasheed Abid, Uttara University, Bangladesh

Networking & Refreshment Break 15:20-15:40 @ Seletar Room 2

15:40-16:00
Poster Presentation
Tiltle: Relationship between fat distribution, iron status biomarkers and hepcidin in obese Qatari adults
Abdelhamid Kerkadi, Qatar University, Qatar

Conference Adjournment



Book Mark Dates

World Orthotic and Prosthetic Innovation Conference

August 26-27, 2019 | Dubai, UAE

Meetings International

Joint Event on

2nd International Conference on

ORTHOPEDICS & ADVANCED CARE

&

2nd International Conference on

OBESITY & ITS TREATMENTS

February 25-26, 2019 | Singapore City, Singapore



Upcoming Events 2019

Agri & Food Science



4th International Conference on
Food Processing and Technology
March 20-21, 2019 | Amsterdam, Netherlands
www.meetingsint.com/conferences/foodtechnology

2nd International Conference On
Aquaculture & Marine Biology
March 25-26, 2019 | Paris, France
vtiW: www.meetingsint.com/agri-aqua-conferences/aquaculture

2nd International Conference on
Animal Health and Veterinary Drugs
April 17-18, 2019 | Tokyo, Japan
W: www.meetingsint.com/veterinary-conferences/animalscience

2nd International Conference on
Nutraceuticals
April 22-23, 2019 | Osaka, Japan
W: www.meetingsint.com/pharma-conferences/nutraceuticals

5th International Conference on
Food & Beverages
April 22-23, 2019 | Osaka, Japan
http://www.meetingsint.com/conferences/food-beverages

7th International Conference on
Food Chemistry & Technology
May 20-21, 2019 | Miami, USA
www.meetingsint.com/conferences/foodchemistry

2nd World Agriculture and Climate Change Conference
June 17-18, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/agriculture

3rd International Meeting On
Veterinary & Animal Health
June 17-18 , 2019 | Miami, USA
W: www.meetingsint.com/conferences/animalhealth

3rd International Conference on
Diet & Nutrition
June 19-20, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/nutrition-diet

3rd International Conference on
Agriculture & Horticulture
July 22-23, 2019 | Chicago, USA
www.meetingsint.com/conferences/agriculture-horticulture

3rd European Conference on
Agriculture & Horticulture
September 16-17, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/conferences/agri

4th International Conference on
Nutrition
September 18-19, 2019 | San Diego, USA
www.meetingsint.com/conferences/nutrition

4th International Conference on
Veterinary & Animal Science
September 23-24, 2019 | Paris, France
W: www.meetingsint.com/conferences/veterinary

2nd European Plant Science Conference
October 18-19, 2019 | Milan, Italy
W: www.meetingsint.com/agri-aqua-conferences/plant-science

3rd International Conference on **Plant and Soil Science**
November 18-19, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/plant-soilscience

Biotechnology



International Conference on
Clinical & Medical Microbiology
February 27-28, 2019 | Paris, France
W: www.meetingsint.com/conferences/clinicalmicrobiology

5th International Conference On
Nanotechnology for Renewable Materials
March 18-19, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/nano

International Conference on
Bioinformatics & Computational Biology
March 20-21, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/bioinformatics

6th International Conference on
Nano Technology and Nano Engineering
April 18-19, 2019 | Vancouver, Canada
W: www.meetingsint.com/pharma-conferences/nanomedicine-nanotechnology

3rd World Congress On
Applied Microbiology
May 15-16, 2019 | Brussels, Belgium
W: www.meetingsint.com/conferences/appliedmicrobiology

7th European Nanotechnology Congress
May 17-18, 2019 | Brussels, Belgium
W: meetingsint.com/conferences/euronanotechnology

3rd International Genetics and Molecular Biology Conference
May 17-18, 2019 | Brussels, Belgium
www.meetingsint.com/conferences/genetics

3rd Annual Cell Congress
June 24-25, 2019| New York, USA
W: www.meetingsint.com/conferences/cell

9th International Conference on
Advanced & Nano Materials
June 26-27, 2019 | New York, USA
W: www.meetingsint.com/nanotechnology-conferences/nanomaterials

3rd World Plant Genomics and Plant Science Congress
July 15-16, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/plantgenomics

4th World Mycology & Mushroom Congress
July 15-16, 2019 | Osaka, Japan
W: www.asianmeetings.net/conferences/mycology

2nd Annual Epigenetics Conference
August 21-22, 2019 | Hong Kong, China
W: www.meetingsint.com/conferences/epigenetics

8th International Conference on
Nano Medicine
August 28-29, 2019 | Viena, Austria
W: www.meetingsint.com/conferences/nanomedicine

3rd Annual Industrial Biotechnology and Bioprocessing Congress
August 28-29, 2019 | Viena, Austria
W: www.meetingsint.com/conferences/bioprocess

Word Flowcytometry Congress
September 18-19, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/flowcytometry

10th World Summit on
Nanotechnology and NanoSciences
October 21-22, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/nanoscience

4th Annual Congress on
Pharmaceutical Biotechnology
November 27-28, 2019 | Madrid, Spain
W: www.europeanmeetings.net/conferences/pharmabiotech

12th International Conference on
Nanotechnology
December 04-05, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/nanotech



International Conference on
Medical Imaging and Clinical Research
February 25-26, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/medicalimaging

2nd International Conference on
Forensic Research & Technology
September 18-19, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/forensicresearch



International Conference On
Structural Design & Infrastructure Development
January 28-29, 2019 | Singapore, City Singapore
W: www.meetingsint.com/conferences/structuraldesign

4th International Conference Materials Science and Engineering
March 18-19, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/conferences/materialscience

International Conference on **Wireless & Telecommunication**
April 15-16, 2019 | Milan, Italy
W: www.meetingsint.com/conferences/wireless-communication

International Conference on
Tissue Engineering & Regenerative Medicine
April 17-18, 2019 | Tokyo, Japan
www.meetingsint.com/conferences/tissueengineering

5th International Conference on
Materials Science & Technology
April 18-19, 2019 | Vancouver, Canada
W: www.meetingsint.com/conferences/materials-technology

2nd International Conference On
Petroleum Engineering
May 22-23, 2019 | Dubai, UAE
W: www.meetingsint.com/chemical-engineering-conferences/petroleum

2nd International Microfluidics Congress
May 23-24, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/microfluidics

2nd Annual Conference On
3D Printing and Additive Manufacturing
May 24-25, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/3dprinting

8th Materials Chemistry Congress
June 17-18, 2019 | Berlin, Germany
W: www.europeanmeetings.net/conferences/materialschemistry

2nd World Congress on
Biosensors and Bioelectronics
June 17-18, 2019 | Washington, USA
W: www.meetingsint.com/conferences/biosensor-bioelectronics

International Conference On
Photonics & Optoelectronics
June 24-25, 2019 | Paris, France
W: www.meetingsint.com/conferences/photonics

International Conference on
Plastic Engineering & Polymer Science
June 25-26, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/plasticengineering

2nd International Conference On
Mechatronics, Automation and Systems Engineering
September 18-19, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/mechatronics

Artificial Intelligence and Cognitive Healthcare Conference
September 18-19, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/artificialintelligence

3rd International Conference on **Microfluidics and Fluid Mechanics**
October 14-15, 2019 | London, UK
W: www.europeanmeetings.net/conferences/euromicrofluidics

12th World Congress on **Graphene Technology & Materials Research**
November 25-26, 2019 | Miami, USA
W: www.meetingsint.com/conferences/graphene

International Conference on **Battery and Fuel Cell Technology**
December 02-03, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/battery



International Conference on **Bacteriology and Infectious Diseases**
January 28-29, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/infectious-diseasea

Vaccine R&D: International Vaccine Congress
January 28-29, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/vaccineresearch

International Congress of **Digital Pathology**
February 25-26, 2019 | Toronto, Canada
W: www.meetingsint.com/conferences/digitalpathology

International Conference on **Healthcare Innovation & Technology**
February 25-26, 2019 | Paris, France
W: www.meetingsint.com/conferences/healthcare

International Conference on **Nursing And Emergency Care**
February 26-27, 2019 | Paris, France
W: www.meetingsint.com/nursing-conferences/nursingcare

2nd International Conference on **HIV/AIDS, STDs & STIs**
March 18-19, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/infectious-diseases-conferences/std-aids

12th World Congress on **Nursing Practice & Research**
March 22-23, 2019 | Singapore, City Singapore
W: www.meetingsint.com/conferences/nursingpractice

International Conference on **Lifestyle Diseases & Management**
March 27-28, 2019 | Paris, France
W: www.meetingsint.com/conferences/lifestylediseases

Annual Summit on **Pathology**
April 17-18, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/pathology

5th World Congress on Nursing & Health Care
April 17-18, 2019 | Milan, Italy
www.meetingsint.com/conferences/nursing-healthcare

International Conference on **Acupuncture & Meridian Studies**
April 22-23, 2019 | Rome, Italy
W: www.meetingsint.com/conferences/acupuncture

2nd European Pathology Congress
May 20-21, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/europathology

6th International Conference on **Medical & Surgical Nursing**
May 20-21, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/medicalnursing

International Conference on **Hospital Management and Patient Safety**
May 23-24, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/hospitalmanagement

2nd International Conference on **Vaccine & Vaccination**
June 17-18 , 2019 | Miami, USA
W: www.meetingsint.com/conferences/vaccine

7th Global Summit on **Registered Nurses & Emergency Nursing**
June 17-18 , 2019 | Washington, USA
W: www.americanmeetings.net/conferences/registerednurses

2nd International Conference on **Epidemiology**
July 17-18, 2019 | Las Vegas, USA
W: www.americanmeetings.net/conferences/epidemiology

6th International Conferences on **Primary Healthcare & Preventive Medicine**
July 26-27, 2019 | Bangkok, Thailand
W: www.meetingsint.com/conferences/primaryhealthcare

8th International Healthcare Simulation Conference
July 26-27, 2019 | Bangkok, Thailand
W: www.meetingsint.com/conferences/healthcare-simulation

3rd European Immunology Congress
August 19-20, 2019 | Prague, Czech Republic
www.meetingsint.com/conferences/immunology

9th Nursing Research and Evidence Based Practice
August 21-22, 2019 | Vancouver, Canada
W: www.meetingsint.com/nursing-conferences/nursing-research

3rd Annual Summit on
AIDS
September 16-17, 2019 | Singapore City, Singapore
W: www.asianmeetings.net/conferences/aids

2nd World Hepatitis Congress
September 23-24, 2019 | Paris, France
W: www.meetingsint.com/conferences/hepatitis

2nd World Congress On
Antibiotics
October 16-17, 2019 | London, UK
W: www.meetingsint.com/conferences/antibiotics

10th International Conference on
Nursing Education & Practice
October 21-22, 2019 | London, UK
W: www.meetingsint.com/conferences/nursing-education

11th International Conference on
Family Nursing
October 21-22, 2019 | London, UK
W: www.meetingsint.com/conferences/familynursing

4th World Congress on
Vector Borne & Zoonotic Disease
October 22-23, 2019 | Rome, Italy
www.europeanmeetings.net/conferences/vectorbornediseases

9th Annual Healthcare IT & Digital Health Meeting
October 23-24, 2019 | London, UK
W: www.europeanmeetings.net/conferences/digitalhealth

International Conference on
Laboratory Medicine & Pathology
October 24-25, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/laboratorymedicine



International Conference On
Orthopedics and Advanced Care
January 28-29, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/orthopedics

International Conference on
Neonatology & Pediatrics
February 25-26, 2019 | Toronto, Canada
W: www.meetingsint.com/conferences/neonatology

International Conference on
Advanced Dentistry and Dental Science
February 25-26, 2019 | Toronto, Canada
W: www.americanmeetings.net/conferences/advanceddentistry

International Conference on
Obesity & its Treatments
February 25-26, 2019 | Singapore, City Singapore
W: www.meetingsint.com/conferences/obesity

Annual Congress on
Midwifery & Womens Health
February 25-26, 2019 | Singapore, City Singapore
W: www.meetingsint.com/conferences/midwifery

International Conference on
Pediatrics
February 26-27, 2019 | Paris, France
W: www.meetingsint.com/conferences/pediatrics

3rd International Conference on
Diabetes And Health Care
March 18-19, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/diabetes-healthcare

International Conference on
Reproductive Medicine & Biology
March 18-19, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/reproductivebiology

4th International Conference on
Cancer Research
March 20-21, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/conferences/cancer

3rd World Nephrology Congress
March 20-21, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/nephrology-conferences/nephrology

3rd International Conference On
Surgery and Anaesthesia Conference
March 22-23, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/surgery

3rd International Conference on
Medical Dermatology & Aesthetic Medicine
March 22-23, 2019 | Singapore
W: www.meetingsint.com/conferences/medicaldermatology

4th World Dental Congress
March 25-26, 2019 | Paris, France
W: www.meetingsint.com/conferences/dentalhealth

2nd World Congress on
Obstetrics and Gynecology Congress
March 27-28, 2019 | Paris, France
W: www.meetingsint.com/conferences/obstetrics

6th World Conference on
Neurology & Neuro Surgery
March 27-28, 2019 | Paris, France
W: www.meetingsint.com/conferences/neurology

4th Annual Diabetes Congress
April 15-16, 2019 | Milan, Italy
W: www.meetingsint.com/conferences/diabetes

4th World Congress on
Cardiology and Cardiovascular Medicine
April 15-16, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/cardiologycare

2nd International Conference on
Dementia & Dementia Care
April 15-16, 2019 | Toronto, Canada
W: www.meetingsint.com/conferences/dementia

5th International Conference on
Cancer Therapy
April 18-19, 2019 | Vancouver, Canada
W: www.meetingsint.com/conferences/cancertherapy

5th International Meeting on
Traditional & Alternative Medicine
April 22-23, 2019 Rome Italy
W: www.meetingsint.com/conferences/traditional-medicine

4th Global Experts Meeting On
Plastic & Aesthetic Surgery
April 22-23, 2019 | Rome, Italy
W: www.meetingsint.com/surgery-conferences/plastic-surgery

World Eye and Vision Congress
May 20-21, 2019 Dubai UAE
www.meetingsint.com/conferences/eye-vision

4th International Conference on
Gastroenterology & Endoscopy Meeting
May 20-21, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/gastroenterology-endoscopy

International Conference on
Oral Health and Hygine
May 20-21, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/oralhealth

International Conference on
Endocrinology and Metabolic Disorder
May 22-23, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/endocrinology

5th International Conference on
Cardiology & Cardiac Surgery
May 22-23, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/cardiacsurgery

2nd International Conference on
Ophthalmology, Clinical & Surgical Practices
June 14-15, 2019 | London, UK
www.meetingsint.com/conferences/clinicalophthalmology

5th International Conference on **Clinical Diabetes, Diabetic Medication &Treatment**
June 17-18, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/clinicaldiabetes

4th International Nephrology and Urology Conference
June 19-20, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/urology-nephrology

4th World Dermatology Congress
June 19-20, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/dermatology

7th International Conference On
Central Nervous System Disorders & Therapeutics
June 21-22, 2019 | Osaka, Japan
W: meetingsint.com/neuroscience-conferences/cns

3rd International Conference On
Gynecology & Obstetrics
June 21-22, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/gynecology

3rd International Conference on
Alzheimer's Disease and Dementia
June 14-15, 2019 | London, UK
W: www.europeanmeetings.net/conferences/alzheimers

5th International Conference on
Dental Science and Education
June 24-25, 2019 | New York, USA
W: www.meetingsint.com/dentistry-conferences/dental-science

5th International Surgery and Surgeons Meet
June 26-27, 2019 | New York, USA
W: www.americanmeetings.net/conferences/surgeons

5th Annual Congress on
Kidney & Dialysis
July 15-16, 2019 | Las Vegas, USA
W: www.americanmeetings.net/conferences/kidney

6th International Conference on
Diabetes Treatment & Research
July 15-16, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/diabetes-research

4th Annual Orthopedic Congress
July 15-16, 2019 | Zurich, Switzerland
W: www.meetingsint.com/conferences/orthopaedics

8th Annual Congress on
Neuroscience & Therapeutics
July 17-18, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/neuroscience-therapeutics

6th International Conference on
Cardiology & Cardiac Nursing
July 18-19, 2019 | Zurich, Switzerland
W: www.meetingsint.com/conferences/cardiology

6th Annual Dentists Meeting
July 18-19, 2019 | Zurich, Switzerland
W: www.europeanmeetings.net/conferences/dentalcare

World Congress on **Allergy**
August 19-20, 2019 | Toronto, Canada
W: www.meetingsint.com/conferences/allergy

9th International Conference on **Neuro-Oncology and Brain Tumor**
August 21-22, 2019 | Hong Kong, China
W: www.asianmeetings.net/conferences/neurooncology

6th European Surgery and Surgeons Meeting
September 16-17, 2019| Amsterdam, Netherlands
W: www.europeanmeetings.net/conferences/eurosurgery

8th International Conference on **Dentistry**
September 16-17, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/dentistry

6th Clinical and Experimental Dermatology
September 18-19, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/conferences/dermatology

3rd International Conference on **Ophthalmology and Eye Disorder**
September 18-19, 2019| Amsterdam, Netherlands
W: www.europeannmeetings.net/conferences/eye

International Conference on **Psoriasis & Psoriatic Arthritis**
September 18-19, 2019 | San Diego, USA
W: www.meetingsint.com/conferences/arthritis

4th International Conference on **Pedriatics & Primary Care**
September 18-19, 2019 | Singapore City, Singapore
W: www.asianmeetings.net/conferences/pediatriccare

6th World Nephrologist Conference
September 20-21, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/nephrologists

7th International Conference on **Cosmetology & Beauty**
September 23-24, 2019 | Osaka, Japan
W: www.meetingsint.com/surgery-conferences/cosmetology

4th World Ophthalmologists Meeting
October 14-15, 2019 | Singapore, City Singapore
W: www.asianmeetings.net/conferences/ophthalmologist

2nd International Conference on **Addiction Research & Behavioural Health**
October 14-15, 2019 | Miami, USA
W: www.meetingsint.com/conferences/addictionresearch

7th International Conference on **General Surgery & Surgical Research**
October 14-15, 2019 | Miami, USA
W: www.americanmeetings.net/conferences/generalsurgery

9th International Conferences on **Dental & Oral Health**
October 14-15, 2019 | London, UK
W: www.meetingsint.com/conferences/dental

7th International Conference on **Nephrology and Therapeutics**
October 14-15, 2019 | London, UK
W: www.europeanmeetings.net/conferences/euronephrology

2nd International Conference on **Wound Care, Tissue Repair and Regenerative Medicine**
October 16-17, 2019 | London, UK
W: www.meetingsint.com/conferences/woundcare

7th International Conference on **Diabetes and Diabetic Medication**
October 23-24, 2019 | London, UK
W: www.meetingsint.com/conferences/diabetes-endocrinology

6th International Conference on **Clinical Gastroenterology**
October 24-25, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/gastro

11th International Conference on **Stroke & Neurological Disorders**
November 18-19, 2019 | Madrid, Spain
W: www.europeanmeetings.net/conferences/stroke

8th Annual Cardiologists Meeting
November 18-19, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/cardiologist

10th World Congress on **Family Medicine & Physcians Meet**
November 18-19, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/familymedicine

2nd Orthotic and Prosthetic Innovation Conference
November 25-26, 2019 | Dubai, UAE
W: www.asianmeetings.net/conferences/prosthetics

2nd International Conference on **Brain Stimulation**
November 27-28, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/brain-stimulation

9th International Conference on **Cardiovascular Diseases & Therapeutics**
December 02-03, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/cardiacdiseases

2nd World Congress on
Endocrinology and Diabetes
December 04-05, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/endocrinology-diabetes



11th World Congress on
Biosimilars and Biologics
May 20-21, 2019 | Miami, USA
W: www.meetingsint.com/conferences/biosimilars

12th International Conference On
Pharmaceutical Chemistry
May 20-21, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/pharmachemistry

14th International Conference on
Pharmacology & Toxicology
July 18-19, 2019 | Zurich, Switzerland
W: www.meetingsint.com/conferences/pharmacology

13th International Conference on
Pharma Pricing & Marketing
August 19-20, 2019 | Hong Kong, China
W: www.meetingsint.com/conferences/pharma-market

World Pharma Congress
August 26-27, 2019 | Johannesburg, South Africa
W: www.meetingsint.com/conferences/pharma

17th International Conference on
Pharmacovigilence
October 14-15, 2019 | Miami, USA
W: www.meetingsint.com/conferences/pharmacovigilance

18th International Conference Pharmaceutics & Novel Drug Delivery Systems Conference
November 20-21, 2019 | Madrid, Spain
W: www.meetingsint.com/pharma-conferences/pharmaceutics



International Conference on
Interdisciplinary Social Sciences
February 25-26, 2019 | Toronto, Canada
W: www.meetingsint.com/conferences/socialstudies

International Conference On **Atomic and Molecular Physics**
February 25-26, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/molecularphysics

International Conferencerce Green Energy and Recycling
February 25-26, 2019 | Paris, France
W: www.europeanmeetings.net/conferences/greenenergy

4th International Conference on
Materials Chemistry & Science
March 18-19, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/materials-chemistry

4th International Conference on
Biofuels & Bioenergy
March 27-28, 2019 | Paris, France
W: www.meetingsint.com/chemical-engineering-conferences/biofuels

5th World Bioenergy Congress
April 15-16, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/bioenergy

3rd International Conference on
Earth Science & Climate Change
April 15-16, 2019 | Toronto, Canada
W: www.meetingsint.com/conferences/earthscience

5th European Chemistry Congress
April 24-25, 2019 | Rome, Italy
W: www.meetingsint.com/conferences/chemistry

International Conference On
Biodiversity and Ecology Restoration
May 15-16, 2019 | Brussels, Belgium
W: meetingsint.com/conferences/biodiversity

6th International Conference on
Renewable & Non-Renewable Energy
May 20-21, 2019 | Miami, USA
W: www.meetingsint.com/conferences/energy

2nd European Physics Congress
May 20-21, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/europhysics

7th World Oil & Gas Congress
May 22-23, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/oil-gas

Annual Precision CRISPR Congress
May 23-24, 2019 | Las Vegas, USA
W: www.meetingsint.com/conferences/crispr

3rd International Conference & Expo on
Laser, Optics & Photonics
June 14-15, 2019 | London, UK
www.meetingsint.com/conferences/laser-optics

4th World Summit On
Climate Change & Global Warming
June 17-18, 2019 | Osaka, Japan
W: www.meetingsint.com/conferences/climatechange

6th World Congress on
Natural Product & Synthetic Chemistry
June 24-25, 2019 | New York, USA
W: www.meetingsint.com/conferences/syntheticchemistry

2nd International Conference on
Green & Sustainable Chemistry
June 26-27, 2019 | Paris, France
W: www.meetingsint.com/conferences/green-chemistry

5th World Congress on
Environmental Science
July 15-16, 2019 | Las Vegas, USA
W: www.americanmeetings.net/conferences/environment

2nd Global Summit on
Recycling and Waste Management
July 22-23, 2019 | Tokyo, Japan
W: www.meetingsint.com/conferences/recycling

2nd International Conference on
Metabolomics
July 22-23, 2019 | Chicago, USA
W: www.meetingsint.com/conferences/metabolomics

3rd International Conference on
Applied Physics and Mathematics
July 29-30, 2019 | Bangkok, Thailand
W: www.meetingsint.com/conferences/appliedphysics-mathematics

International Conference on
Journalism & Mass Communication
August 26-27, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/journalism

Coastal Ecosystem and Managemnet
September 16-17, 2019 | Amsterdam, Netherlands
W: www.meetingsint.com/conferences/coastalzone

International Conference on
Anthropology
September 18-19, 2019 | Amsterdam Netherlands
W: www.europeanmeetings.net/conferences/anthropology

10th International Conference on
Organic Chemistry
September 20-21, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/organic-chemistry

8th International Conference on
Nuclear Energy
September 23-24, 2019 | Paris, France
W: www.meetingsint.com/conferences/nuclear-energy

2nd International Conferences in Social Sciences and Humanity Studies
October 14-15, 2019 | Singapore, City Singapore
W: www.meetingsint.com/conferences/socialscience

9th Energy Generation and Consumption Congress
October 16-17, 2019 | Miami, USA
W: www.meetingsint.com/conferences/energygeneration

10th World Energy Congress
October 16-17, 2019 | Singapore City, Singapore
W: www.meetingsint.com/conferences/smartenergy

11th International Conference on
Separation Techniques
October 18-19, 2019 | Milan, Italy
W: www.meetingsint.com/conferences/separation-techniques

2nd World Congress on
Biopolymers and Bioplastics
October 21-22, 2019 | London, UK
W: www.meetingsint.com/chemical-engineering-conferences/biopolymers

13th World Congress on
Petrochemistry
November 25-26, 2019 | Miami, USA
W: www.meetingsint.com/conferences/petrochemistry

World Hazards Congress
November 27-28, 2019 | Dubai, UAE
W: www.meetingsint.com/conferences/hazard

12th Annual Congress on
Chemistry
November 27-28, 2019 Dubai UAE
W: www.meetingsint.com/conferences/chemistryresearch

3rd Global Summit on
Waste Management and Recycling
December 02-03, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/wastemanagement

European Congress on
Medicinal Chemistry
December 06-07, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/medicinalchemistry

International Conference on
Enzymology
December 06-07, 2019 | Berlin, Germany
W: www.meetingsint.com/conferences/enzymes



Book Mark Dates

World Orthotic and Prosthetic Innovation Conference

August 26-27, 2019 | Dubai, UAE

Meetings International

Joint Event on

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&

2nd International Conference on

OBESITY & ITS TREATMENTS

February 25-26, 2019 | Singapore City, Singapore



Supporting Journals



SUPPORTING JOURNALS

Journal of Surgery & Clinical Practice

Clinical Research in Orthopedics

Journal of Obesity and Therapeutics

WELCOME MESSAGE



2nd International Conference on

Orthopedics & Advanced Care

February 25-26, 2019 | Singapore City

THOMSON MEDICAL

Dear Friends, Colleagues, and Conference Participants,

As the Chairman of the first session of the conference it gives me great pleasure and honor to deeply extend to you a warm invitation to attend our 2nd International Conference on Orthopedics and Advanced care which will be held in Singapore City on February 25-26, 2019

On behalf of the organizing committee members, I can't wait to give you greetings of joy in bringing smiles to a lot of people around the world. We are also bringing hope and future towards understanding, and upgrading the field of Orthopedics through Innovative ideas and enhancing techniques in the Orthocare practice today. There are all new developments from invasive to non-invasive techniques with the ultimate goal of patient comfort while also sharing the knowledge with the scientific community.

I hope you will come and join our group of Doctors, researchers, scientists, academics medical Colleges, Training institutes, Entrepreneurs, Implant designers, Ortho patients with a like-minded approach who will pave the path for you to release your hidden potentials. All this being brought to you under one roof to amplify your vision in climbing the endless ladder of knowledge in the field of medicine, taking you from success to even more success.

This conference is an excellent venue to share your expertise, experience, and knowledge with your colleagues around the world through the exchange of ideas in technical sessions, poster sessions, panel discussions, and continuing education courses.

We are certain you will be truly interested to join us. We look forward to see you in Singapore City, this February for our outstanding conference.

"The important thing in science is not so much to obtain new facts as to discover new ways of thinking about them."- Sir William Bragg

"Changes call for innovation, and innovation leads to progress." - Li Keqiang

Best Regards

Dr. Wong Boh Boi

Founder & Senior ParentCraft Consultant

Wong Boh Boi Pte Ltd, Singapore



Book Mark Dates

World Orthotic and Prosthetic Innovation Conference

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February 25-26, 2019 | Singapore City, Singapore



Workshop Day 1

2nd International Conference on
ORTHOPEDICS & ADVANCED CARE
&
2nd International Conference on
OBESITY & ITS TREATMENTS

February 25-26, 2019
Singapore City, Singapore



Wong Boh Boi

Wong Boh Boi Pvt Ltd, Singapore

To review TCM and the current practices for lower back pain management for a lasting effect.

Objective: To introduce pain management and relief for lower back using the methods of Traditional Chinese Medicine (TCM) and its approach.

Setting: Chien Chi Yow, a Traditional Chinese Medicine company and specialist with over 50 years of experience and expertise. Medical Case studies of 2 patients;

Patients Profile and Medical History: Sedentary lifestyle and occupational requirement, Senior & Sportsperson. History of lower back pain and/or have received medically-invasive lower back surgery Mothers in their Pre- and Post-Partum

Methods: Uses (but not limited to) a combination of Meridian point massage (Tui Na), Cupping, Acupuncture, Spinal Lumbar Reconstruction and Encourage Stretching Exercise.

Results: Participants experience significant pain relief after the TCM treatment compared to before treatment was done.

Conclusion: While TCM is proven to be able to significantly manage and relieve the lower back pain with TCM approach, good advisory and counseling are as important to reinforce the importance of a healthy lifestyle for an enhanced quality of life.

Biography

Wong Boh Boi has graduated with a Bachelor of Health Science (Nursing) from the University of Sydney with distinction. She later went on to obtain a Master of Education (Early Childhood Education) and received her PhD from the National University of Singapore.

mbwong@ntu.edu.sg

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Meetings International

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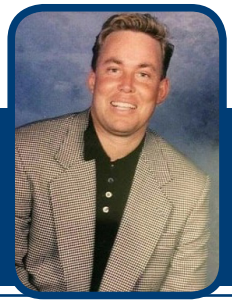
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Keynote Forum Day 1

2nd International Conference on
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&
2nd International Conference on
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February 25-26, 2019
Singapore City, Singapore



James Stoxen

Team Doctors Treatment Center, USA

The integrated Spring-Mass model approach to treating Thoracic Outlet Syndrome

The use of hand held devices (HHD) such as mobile phones, game controls, tablets, portable media players and personal digital assistants have increased dramatically in past decade. This drastic change has led to new batch of difficult to treat, musculoskeletal Disorders of the Upper Extremities such as myofascial pain syndrome of neck and upper back and thoracic outlet syndrome. The thoracic outlet anatomy and how the bundle passes through the passageway is complex for even musculoskeletal experts. So for doctors trained in other specialties there can be an inadequate understanding about nature and cause of thoracic outlet syndrome. A syndrome rather than a disease, the Mayo Clinic, Cleveland Clinic and the National Institute of Neurological Disorders And Stroke, plus top 10 ranked hospitals for neurology and neurosurgery agree persistent compression of nerves, arteries and veins traveling through the thoracic outlet is what leads to thoracic outlet syndrome. I will discuss the three models of human movement, the inverted pendulum model, the spring-mass model and the integrated spring-mass model (ISMM). The (ISMM), which integrates the spring suspension systems of the foot and shoulder region as well as the torsion spring of the spine and the mass, the head. I will discuss my clinical findings show compressive disorders like TOS and herniated discs are merely an over control of tension on the human spring mechanism leading to these syndromes. I will give brief review of the symptoms and their patterns, the common orthopedic tests, and diagnostic tests, the 16 different common conservative therapies and the 10 reasons for when surgery is medically necessary. I will discuss an alternative treatment for this disorder based on the integrated spring mass model.

Biography

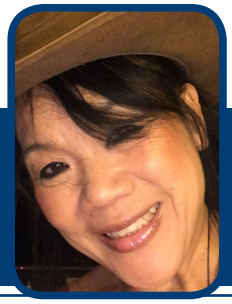
James Stoxen, DC, FSSEMM (hon) FWSSEM, is the president of Team Doctors, Chicago, Illinois, one of the most recognized treatment centers in the world. He has been invited to give scientific presentations at over 60 medical conferences in over 20 countries. In 2015 he was awarded an honorary fellowship by a member of the royal family, the Sultan of Pahang, at the World Congress of Sports and Exercise Medicine for his distinguished research and contributions to the advancement of sports and exercise medicine on an International level. In 2018 he published a book, Neck Pain? Back Pain? Shoulder Pain? Could it be Thoracic Outlet Syndrome? which became a #1 International Best Seller.

teamdoctors@aol.com

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February 25-26, 2019
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Huang Wei Ling

Medical Acupuncture and Pain Management Clinic, Brazil

Why patients with knee pain still have symptoms despite the use of anti-inflammatory medications?

Statement of the Problem: According to Western Medicine, chronic knee pain can have different causes. The problem is usually associated with sprained ligaments, meniscus tears, tendinitis, and runner's knee. The usual treatment is done with ice, stretching exercises and anti-inflammatory medications. According to Traditional Chinese Medicine (TCM), the knee pain is associated with invasion of External Wind, Cold, Damp and Heat, deficiency of Liver and Kidney, or deficiency of Qi and Blood. Purpose: Demonstrate that by using anti-inflammatory for the treatment of knee pain, we will be causing a greater injury in Kidney and Liver energy, according to TCM, which are responsible for the integrity of the knee. Therefore, the use of these medications will worsen the energy imbalance, maintaining the pain condition. Methods: The description of two case reports of 65 and 70-year-old patients with chronic knee pain, who were using anti-inflammatory drugs for long periods without any significant improvement, only side effects such as epigastric pain and drug intolerance. They sought acupuncture in an attempt to control their pain without having to use such medications. Results: There was a significant improvement in pain symptoms when using acupuncture, dietary counseling and general guidelines on external pathogenic factors such as Wind, Cold, Humidity, and so on. We noticed that when the patient underwent treatment to restore the energy of the chakras corresponding in TCM to the Five Elements, the pain that the patient presented disappeared completely. Conclusion: In order to adequately treat patients with knee pain, we should understand more deeply the significance of this symptom at the energy level by treating the organs that command the knee such as Liver and Kidney according to TCM. The treatment of energy replacement of the internal organs through crystals-based drugs has proved to be very important for the consolidation of the treatment.

Biography

Huang Wei Ling has graduated in medicine in Brazil, specialist in infectious and parasitic diseases, a General Practitioner and Parenteral and Enteral Medical Nutrition Therapist. Once in charge of the Hospital Infection Control Service of the City of Franca's General Hospital, she was responsible for the control of all prescribed antimicrobial medication and received an award for the best paper presented at the Brazilian Hospital Infection Control Congress in 1998. Since 1997, she works with the approach and treatment of all diseases of all systems of the human body in a holistic way, with treatment guided through the teachings of Traditional Chinese Medicine and Hippocrates.

welingmg@gmail.com

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2nd International Conference on
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OBESITY & ITS TREATMENTS

February 25-26, 2019
Singapore City, Singapore



P Venkataraman

SRM Institute of Science and Technology, India

Expression levels of obesity - related genes in high fat diet (HFD) induced experimental animals: Impact of combination therapy of anti-obesity drugs

Obesity is a global health problem and also a strong risk factor for type 2 diabetes mellitus, cardiovascular diseases and obesity genes play a major role in the central regulation of energy balance. Orlistat (Xenical, Alli) is a synthetic anti-obesity drug approved by European Medicines Association (EMA) and Food and drug administration (FDA). But studies shown, orlistat supplementation causes severe liver and kidney injury. Melatonin, an indolamine, produced by the pineal gland plays a major role in circadian rhythm and one of the powerful antioxidant. Literatures shown, it also exerts control over metabolic functions that determine fat accumulation and obesity and it also protects environmental toxicants induced liver and kidney injury. Garlic (*Allium sativum* L.), has been used as medicinal and alimentary medicine from ancient period and these has been used extensively worldwide especially in countries like India. Studies reported garlic and its constituents have shown the various biological activities especially against cardiovascular disease due to its blood lipid-lowering, anti-thrombosis, antioxidant effects and inflammatory response. Diallyl trisulphide (DATS), a natural product from garlic have gained attention in many biological activities. Based on literatures and to compensate the orlistat induced side effects, we propose to study the expression levels of obesity-related genes in high fat diet (HFD) induced experimental animals and also to see the impact of melatonin alone and in combination with DATS supplementation compared to orlistat alone therapy. We studied mRNA and protein expression of KSR2, IRX3, FTO and Neuropeptide Y by real time PCR and western blot method in liver, adipose tissue and brain of experimental animals along with antioxidant and liver function parameters. Histological observations of liver and adipose tissue were also studied. Based on results we found that both the melatonin and DATS alone and its combination with orlistat therapy is efficacy and safety when compared to orlistat alone therapy. This study determined the clinical usefulness of melatonin and DATS as supplemental therapeutic agents in obesity induced liver and kidney dysfunction as well as in orlistat therapy and it may help in providing the therapeutic options to tackle the obesity without causing side effects.

Biography

P Venkataraman has completed his MPhil degree from department of Endocrinology, University of Madras, Chennai, India and awarded PhD degree at the age of 32 years from the same department. At present he is working as an Assistant Professor in Department of Medical Research, SRM Medical College Hospital and Research Centre, SRM University, Chennai, INDIA. He has an extraordinary ability in the field of Molecular, Environmental and Neuroendocrinology. He has published his research works in 41 international peer reviewed journals especially Journal of Nutritional biochemistry, Endocrine research, Neurotoxicology, International Journal of Developmental Neuroscience, Neuroscience Research, BBA Clinical, Obesity medicine, Biomedicine and Pharmacotherapy. He is the reviewer in reputed journals especially Biomedicine and Pharmacotherapy, Comparative Clinical Pathology and Reproductive Sciences. He is also the editorial board member in Journal of Experimental and Integrative Medicine and Journal of clinical and Molecular endocrinology. He has participated and presented many research papers in International and National conferences in the field of Reproductive and comparative endocrinology and environmental toxicology. He served as a resource person in two national workshops (DST, DBT, ICMR and CSIR sponsored) entitled, "Techniques in molecular and cellular endocrinology", organized by Department of Endocrinology, University of Madras on 2010 & 2013. He is supervising 8 PhD students and among them two students got PhD degree.

venky_prabhu@hotmail.com

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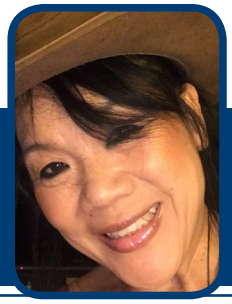
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Workshop Day 1

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February 25-26, 2019
Singapore City, Singapore



Huang Wei Ling

Medical Acupuncture and Pain Management Clinic, Brazil

Can metallic surgical implants influence the body's health?

Statement of the problem: The necessity of surgical implants use is a consequence of the increase of life expectancy. Therefore, there is a range of studies regarding the implant materials and their interactions. However, those studies are carried out analyzing the factory and interaction of materials, and often, they do not consider the effects of those materials in the normal functioning of the human body. Purpose: Demonstrate that the placement of metal implants can influence body's health, leading to a decrease in vital energy. Methods: Two clinical cases, the first, of a 30-year-old male patient, who suffered an accident and broke the right elbow and right leg, requiring surgery with surgical implant of titanium rod in both limbs. Two months after surgery the patient presented a very severe depression, that would not improve with the use of antidepressants. The second case is from 60-years-old female patient, who implanted a titanium dental prosthesis. Three months after the implant, the patient started feeling weakness, indisposition for the daily activities, in contrast to her normal behavior, in addition to precocious aging with the wrath of her hair. The chakras energies of both patients were measured through a crystal pendulum. All chakras were energy depleted. Results: In the first case, the patient was instructed to try to remove the implant. Two hours after the removal, the patient presented extreme improvement of the symptoms. The second patient did not remove the implant yet, and continued to present symptoms of low vital energy. Conclusion: The implantation of metallic material inside the human body, can lead to reduction of vital energy, inducing different symptoms, like depression, according to these two case reports.

Biography

Huang Wei Ling has graduated in medicine in Brazil, specialist in infectious and parasitic diseases, a General Practitioner and Parenteral and Enteral Medical Nutrition Therapist. Once in charge of the Hospital Infection Control Service of the City of Franca's General Hospital, she was responsible for the control of all prescribed antimicrobial medication and received an award for the best paper presented at the Brazilian Hospital Infection Control Congress in 1998. Since 1997, she works with the approach and treatment of all diseases of all systems of the human body in a holistic way, with treatment guided through the teachings of Traditional Chinese Medicine and Hippocrates.

welingmg@gmail.com

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February 25-26, 2019 | Singapore City, Singapore



Scientific Tracks & Abstracts
Day 1

Oral Session I

Day 1 February 25, 2019

Exercise and Sports Medicine | Orthotics and Prosthetics | Orthopedic Surgery | Arthroplasty and Associated Infections | 3D Printing Orthopedics & Robotics | Osteoarticular Infections | Musculoskeletal Injury and Repair

Chair
Wong Boh Boi
Wong Boh Boi Pvt Ltd, Singapore

Co-chair
James Stoxen
Team Doctors Treatment Center, USA

Session Introduction

Title:	**High Fibular Osteotomy (HFO) for medial compartmental arthritis of knee with varus deformity in Indian subcontinent** **Shah Kushal V,** Parul Sevasharam Hospital, India
Title:	**Functional navigation in hip resurfacing using the corin optimized positioning system** **Waters G,** Fiona Stanley Fremantle Hospitals Group, Australia
Title:	**Effect of hamstring stretch pelvic control on pain, disability and work ability index in dentist with mechanical low back pain** **Priyanka Rishi,** SGT University, India
Title:	**What's new in Hallux Valgus treatment?** **Morteza Rajai,** Iran University of Medical Sciences, Iran
Title:	**Effectiveness of cervical stabilization exercises on respiratory strength in chronic neck pain patients with forward head posture- A pilot study** **Sonia Pawaria,** SGT University, India
Title:	**A unique case of Latissimus Dorsi Tendon Avulsion injury in an athlete cycling anabolic steroids and successful delayed repair utilizing an intracortical button technique** **Waters G,** Fiona Stanley Fremantle Hospitals Group, Australia
Title:	**Efficacy of the functional mobilization approach in young adults with Patellofemoral Pain Syndrome: A randomized clinical trial** **Supriya Awasthi,** School of Allied Health Sciences, India
Title:	**Shoulder and elbow tendinitis as initial manifestation of autoimmune hepatitis** **Huang Wei Ling,** Medical Acupuncture and Pain Management Clinic, Brazil
Title:	**Cardiac fitness and mental health of post menopusal women in Gurugram India** **Sheetal Kalra,** SGT University, India
Title:	**Audit on the compliance to 2016 ESSKA Meniscus Consensus on the management of degenerative meniscus lesions among patients undergoing arthroscopy +/- partial meniscectomy in an elective orthopaedic unit (United Kingdom)** **Nina V. Dela Cruz,** Imperial College Healthcare NHS Trust, UK

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High Fibular Osteotomy (HFO) for medial compartmental arthritis of knee with varus deformity in Indian subcontinent

Shah Kushal V
Parul Sevasharam Hospital, India

Osteoarthritis (OA) Knee is a common health problem affecting almost 29 % of India's Population1. Gold standard treatment for high grade Arthritis is Total Knee Replacement2. However this procedure carries its risk to benefit ratio and complications3 like DVT, persistent pain. High tibial osteotomy and uni-compartmental replacement are other modalities for high grade knee which needs surgical skills and has its risk to benefit ratio and complications 4 like fracture, implant failure and others. Incidental findings Of High Fibular Osteotomy a Simple Surgical Procedure seems to be boon for those patients who have excruciating pain and waiting for total knee replacement but cannot go for it due to its prohibitive cost. Evidence of its efficacy has been piling up fast and seems to buy time for patient with medial compartment arthritis for total knee replacement and gives short to medium term relief. For Indian subcontinent where > 50 % have varus deformity with medial compartment arthritis seems to be best interim surgery with minimal blood loss, small surgical scar, ability of full weight bearing walk and squat on the same day and cost effective with no age limits5. A total follow up of 20 patient shows increase in medial joint space of > 2mm and decrease Tibiofemoral angle around 2° with improved Visual Analogue Score (VAS) score from 2 To 8. Thus HFO can be considered as a choice of treatment for medial compartment knee with varus deformity as a joint preserving procedure for a span of 2-10 years.

Biography

Shah Kushal V has accomplished his MS in Orthopaedics from Rajiv Gandhi University of Health Sciences, Bangalore in 2017. Currently he is working as Consultant Surgeon at Parul Sevashram Hospital (Vadodara) and was previously associated with Zydus Hospital (Dahod,Gujarat). He is a Member of ISKSAA, Member of Indian Orthopaedic Association and Member of Gujarat Orthopaedic Association.

drkushalshah11@gmail.com

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February 25-26, 2019
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Functional navigation in hip resurfacing using the corin optimized positioning system

Waters G
Fiona Stanley Fremantle Hospitals Group, Australia

Acetabular malposition in total hip arthroplasty can lead to instability, impingement, and edge loading resulting in eccentric loading and increased wear that can lead to bearing failure. Eccentric wear in metal on metal bearings used in Birmingham Hip Resurfacings (BHR) produces metal debris. Mounting body of evidence suggesting that one generic zone such as Lewennik's "safe zone" is unreliable. Functional positioning of acetabular component relative to patient specific dynamic pelvic tilt throughout a range of activities is crucial. The aim use OPS to analyze pre-operative acetabular position, determine patient specific functional "safe-zone" and employ customized alignment guides to implant BHR acetabular components resulting in improved functional and radiographical outcomes. OPS performed pre-operatively in 13 patients to create customized implant alignment guides. Data collected pre and post-operatively at 6, 12 and 52 weeks. Primary outcome measures of functionality including Oxford Hip Scores, dislocation and revision rates. OPS post-operatively to evaluate positioning. Secondary outcome measure of serum metals ions monitoring for metallosis. Improved Oxford Hip Scores post-operatively. Currently no revision surgeries or dislocations have occurred. Preliminary results from post-operative OPS indicate no edge loading. Use of OPS results in improved precision and accuracy in achieving patient specific functional acetabular "safe-zone" thus improving functional outcomes and reducing edge loading in BHR.

Biography

Waters G is an Orthopaedic Registrar at Fiona Stanley Hospital in Perth, Australia. She completed her post-graduate Bachelor of Medicine and Surgery at the University of Western Australia in 2014.

georginacwaters@gmail.com

Notes:

2nd International Conference on
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February 25-26, 2019
Singapore City, Singapore

Effect of hamstring stretch pelvic control on pain, disability and work ability index in dentist with mechanical low back pain

Priyanka Rishi
SGT University, India

Background: Dentist sits in a chair and leans forward towards the patient, lumbar curve flattens and the bony infrastructure provides very little support to the spine. Sitting in chair forces the hamstrings to become inactive and places them in a shortened position. Repetitive, prolonged sitting eventually leads to hamstring muscles that adapt to a new shortened length, and the result is Hamstring tightness which induces posterior pelvic tilt and decreased lumbar lordosis, which can result in low back pain

Objective: We investigated effects of hamstring stretch with pelvic control on pain, disability and work ability in Dentist with mechanical low back pain.

Methods: Thirty Dentist from Dental professional were randomly assigned to pelvic control hamstring stretching (Group A) (n = 15) and Supine hamstring stretching (Group B) (n = 15). All interventions were conducted 3 days per week for 6 weeks, and included in the hamstring stretching and lumbopelvic muscle strengthening.

Outcomes: Outcomes were evaluated through Numeric pain rating scale (NPRS) for Pain, Oswestry disability index (ODI) for Disability, and Work ability index (WAI) for Work ability.

Results: The paired t-test was used to compare within group differences and unpaired t-test was used to compare the between group differences. All statistical analyses were performed using SPSS statistical software version 21.Significant differences found between Group A and group B in all three variables.($p<0.05$).between pre and posttest of subjects. According to the results of the present research, it could be concluded that for reducing pain, disability and work ability in dentists pelvic control hamstring stretch and lumbopelvic strengthening exercises are recommended.

Conclusions: The pelvic control hamstring stretch exercise would be more helpful in back pain reduction and improvement of work ability in Dentist with mechanical low back pain.

Biography

Priyanka Rishi (PT), BPT, MPT, Pursuing PhD with around 6 years of experience is working as an Assistant Professor in Faculty of Physiotherapy, SGT University Since 2014. Having teaching experience at graduate/postgraduate level. Has contributed 12 research papers and 1 book in various National and International Journals and was awarded with Frederick Sanger Researcher Award -2015 in Physiotherapy. Has presented papers in various conferences and is invited as external examiner in various universities.

Prnk.rishi@gmail.com

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What's new in Hallux Valgus treatment?

Morteza Rajai
Iran University of Medical Sciences, Iran

Introduction: Hallux valgus is a prevalent condition and affects a reported 30% of adults aged more than 40 years. There are several methods of conservative and surgical procedure (150 procedures) for treatment of that. The aim of this review is evaluation of advantages and disadvantages of these procedures.

Materials and Method: We recognize the studies utilizing data base of PubMed and Google scholar, with the keywords hallux valgus, osteotomy, minimally invasive, percutaneous, Conservative treatment, pain, quality of life and surgery.

Results: Percutaneous as a minimally invasive surgery is one of the major progresses in the operating field of orthopedic. Twenty-four studies compared the effectiveness of various kinds of surgeries. The results showed there is no difference in rate of pain between chevron-type osteotomy and other surgical procedures. One study revealed that chevron osteotomy is more beneficial than Lindgren osteotomy in terms of walking speed. A medium quality study evaluated the efficient of hallux valgus surgery compared to conservative or no treatment. This study revealed that surgery, specifically chevron osteotomy, is a more effective procedure for pain compared to conservative treatment and also no treatment in the first year.

Conclusion: This review showed that differences between various types of surgical procedures are minimal; however there is evidence that surgery methods, are a more effective procedure than conservative or no treatment in decreasing pain in the first year following surgery. However, this review has showed that there is a loss of high-quality studies comparing equivalent types of Hallux valgus treatments that evaluate the same outcomes.

Biography

Morteza Rajai graduated from the Shahid Beheshti University of Medical Science, at a general orthopedic surgeon in 2011 and received his MD degree from Tehran University of Medical Science in 1995. He also completed a fellowship with doctor Kerkhoffs in ankle arthroscopy and sports traumatology at the Academic Medical Centre Amsterdam, University of Amsterdam in 2017. In addition, Since 2011, he has been a member of the Iran Society of Orthopedic Surgery. Moreover, He is head of the researchers at Borna Research Center (BRC). At present, he serves as Orthopaedic Surgeon for Iran University of Medical Sciences in Shohadaye Yaftabad Hospital. Besides, he works at Moheb-Mehr hospital, Trita hospital, and Gandhi hotel hospital.

rajai.md@gmail.com

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Effectiveness of cervical stabilization exercises on respiratory strength in chronic neck pain patients with forward head posture- A pilot study

Sonia Pawaria
SGT University, India

Background: Forward head posture is one of the most common abnormalities associated with chronic neck pain. In FHP the altered rib cage mechanics leads to decrease in thoraco abdominal mobility, impaired diaphragm muscle mobility and reduced the ventilator efficacy of diaphragm, reduced the effectiveness of abdominals and intercostals muscles.

Methods: Total of 20 subjects were taken, based on inclusion & exclusion criteria the experimental group (n=10) & control group (n=10) were randomized. Experimental group received Cervical Stabilization Exercise with the conventional Physiotherapy and Control group received only Conventional Physiotherapy for 6 weeks.

Outcome measures: Perceived recovery was assessed with Numeric Pain rating Scale (NRPS), Neck Disability Index (NDI), Forward head posture which was assesses by the digital camera by measuring the Craniovertebral Angle (CVA), Respiratory strengths (MIP & MEP) was assessed by Respiratory Pressure meter.

Results: Significant increase in Craniovertebral angle and respiratory strength with decrease in NRPS and NDI scores were found in the group which received the cervical stabilization exercises along with the conventional Physiotherapy ($p < 0.05$).

Conclusion: Cervical stabilization exercise is an effective approach to reduce the forward head posture and thus helps to regain the respiratory muscle strength by improving the biomechanics of respiratory muscles.

Biography

Sonia Pawaria born and brought up in Rohtak, Haryana, she did graduation from Guru Jambheshwar University of Science and Technology, Hissar and Post Graduation in Cardiopulmonary from Manav Rachna Institution, Faridabad. She also also pursuing PhD in Physiotherapy from SGT University Gurugram. She has worked with reputed organization, Apollo Clinic, Sec-56, Gurgaon. Presently she is working as Assistant Professor from 2011at Faculty of Physiotherapy, SGT University, Gurugram. She is guiding students pursuing Masters degree in Physiotherapy. She has got 20 publications in various national and International Journals.

sonia@sgtuniversity.org

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A unique case of Latissimus Dorsi Tendon Avulsion injury in an athlete cycling anabolic steroids and successful delayed repair utilizing an intracortical button technique

Waters G
Fiona Stanley Fremantle Hospitals Group, Australia

Latissimus Dorsi is a large pectoral girdle muscle and powerful arm adductor (1, 2). Avulsion injuries of its tendinous insertion into the humerus are incredibly rare. Surgical repair has rarely been reported, literature showing fewer than 15 cases, most with tendon augmentation (1, 3-8). This unique and complex case of a delayed Latissimus Dorsi avulsion injury in a power-lifting athlete cycling anabolic steroids. Using an intracortical button technique, we proposed that this robust repair would enable restoration of full function, strength and cosmetic defects. 28-year-old competitive powerlifter cycling anabolic androgenic steroids and testosterone presented 15 weeks post injury. Clinical examination revealed obvious asymmetry, tenderness and posterior axillary fold defect. Profound weakness of resisted arm adduction. MRI revealed absent Latissimus Dorsi insertion, tendon stump in axilla. Surgical repair was undertaken via dual axillary approach. Retracted tendon mobilised and two titanium buttons with integrated Fibrewire Sutures (Arthrex Inc) created a modified Krakow suture, a novel technique. A dual fixation point at its anatomical insertion was created using an intracortical button. We described a successful delayed repair of this chronic injury without the need for tendon augmentation. Dual approach assists with tendon mobilization and preparation, along with restoration of anatomy and strong fixation at bicipital groove. Clinical and radiological evidence of recovery without pain, correction of cosmetic defects and full return to competitive powerlifting. This robust intracortical button technique produces a successful Latissimus Dorsi tendon avulsion repair with incredible results leading to restoration of full function, even in the most challenging competitive athletes.

Biography

Georgina Waters is an Orthopaedic Registrar at Fiona Stanley Hospital in Perth, Australia. She completed her post-graduate Bachelor of Medicine and Surgery at the University of Western Australia in 2014.

georginacwaters@gmail.com

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Efficacy of the functional mobilization approach in young adults with Patellofemoral Pain Syndrome: A randomized clinical trial

Supriya Awasthi
School of Allied Health Sciences, India

Background: Patellofemoral pain syndrome is a relatively common diagnosis in outpatients presenting with anterior knee pain. Patellofemoral pain syndrome can be defined as retro patellar or peripatellar pain resulting from physical and biochemical changes in the patellofemoral joint.

Aim: This study was undertaken to investigate the efficacy of functional mobilization approach in terms of pain and function in young adults with patellofemoral pain syndrome and the clinical efficacy of foot orthoses with functional mobilization in individuals with patellofemoral pain syndrome.

Methodology: 60 adults with patellofemoral joint pain. Each participant was randomly allocated to one of the two groups (a or b) using block randomization method. The two groups were as follows: group a: functional mobilization of foot and ankle + exercises and group b: full length medial wedge insoles + exercises. A 12 week treatment program was prescribed for each patient, and each patient was assessed at baseline and after 12 weeks (pre- and post- intervention) for primary outcomes using lefs (lower extremity function test), nprs(numeric pain rating scale)and fpi(foot posture index).

Results: Patients from both groups demonstrated clinically significant improvement in primary outcomes with regard to self-reported pain and function upon completion of the study. A significant difference was also seen in foot posture. Post hoc analysis determined that post-intervention follow-up measures significantly improved ($p < 0.05$ for all) as compared to baseline values in terms of pain and function .Functional mobilization was more effective in reducing pain (mean difference 0.1) and orthoses were more effective in improving foot posture. Group b showed no immediate change in pain and function initially, indicating that improvement occurred at a slower rate in this group. Pain and function improved faster in group a. However, the magnitude of change in foot posture was seen more in group b.

Conclusion: Therefore, incorporating functional mobilization of foot and ankle in addition to conventional therapy in physical therapy clinical practice in future may improve short term beneficial effects with regard to pain and function in patients with patellofemoral pain syndrome.

Biography

Supriya Awasthi, is a Physician in the school of Allied Health Sciences, India. She is also working as a Professor in the same institute. She has received many National and International rewards and awards under her provision. Her filed of interest includes Physiotherapy, Exercise & Sports Medicine

supriya.awasthi@sharda.ac.in

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Shoulder and elbow tendinitis as initial manifestation of autoimmune hepatitis

Huang Wei Ling
Medical Acupuncture and Pain Management Clinic, Brazil

Introduction: The tendinitis is commonly defined as an inflammation of the tendon, which is what connects bones to muscle. On the major literature, tendinitis is usually caused by repetition of movements and lack of stretching. However, the cause was never before associated to a disease in the liver, such as Autoimmune Hepatitis. According to Traditional Chinese Medicine (TCM), tendons are governed by the energy of the Gallbladder meridian, which is attached to the Liver energy.

Purpose: The aim of this study is to demonstrate that tendinitis may be an early manifestation of Autoimmune Hepatitis.

Methods: Through a clinical case report of a female patient, M.C., 42 years old, with chronic pain in shoulder and elbow, resistant to conventional treatments with anti-inflammatories and physiotherapy. She sought acupuncture treatment, and even so, the improvement presented was scarce. In her physical examination, a bulging was detected in the right ear, on the area that corresponds to the Liver, according to Auricular Medicine. Laboratory tests were requested to see if there could be any undiagnosed liver disease until then. The only exam that was initially altered was the prothrombin time of 89%. More tests were ordered to see whether antibodies were present. Anti-nuclear, anti-smooth muscle, anti-microsomal.

Results: To the physician's surprise, the patient had a 1:160 anti-nucleus reagent.

Conclusion: The conclusion of this study is that tendinitis may be the initial manifestation of an Autoimmune Hepatitis.

Biography

Huang Wei Ling has graduated in medicine in Brazil, specialist in infectious and parasitic diseases, a General Practitioner and Parenteral and Enteral Medical Nutrition Therapist. She has been the in charge of the Hospital Infection Control Service of the City of Franca's General Hospital, she was responsible for the control of all prescribed antimicrobial medication and received an award for the best paper presented at the Brazilian Hospital Infection Control Congress in 1998. Since 1997, she works with the approach and treatment of all diseases of all systems of the human body in a holistic way, with treatment guided through the teachings of Traditional Chinese Medicine and Hippocrates.

welingmg@gmail.com

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Cardiac fitness and psychological health of mother in post menopausal women in Gurugram India

Sheetal Kalra
SGT University, India

Background: In recent past the global agenda for health burden of disease for women has changed significantly from maternal morbidity and mortality to non communicable diseases as the leading cause of death and disability among women in almost all the countries of the world. A global agenda for women's health now, therefore, have a broadened and redefined focus to encompass not only women's sexual and reproductive health, but also the prevention of non communicable disorders which are mostly due to poor lifestyle habits. Recent reports document a large national health burden of chronic disease with significant proportions due to behavioral dimensions such as physical inactivity and low levels of cardiorespiratory fitnesss. With a significant number of women belonging to the status of menopause, it is crucial to understand the status of psycho-physical fitness, associated risk factors so that a comprehensive health programme can be designed which targets to improve their fitness level including life style modifications to help them live an independent and healthier life in the later stages of their life.

Methodology: Comprehensive health examination was performed on 100 post menopausal women attending physiotherapy OPD of SGT Hospital Gurugram. Post menopausal women in the age group of 45-60 yrs were included(48 women from rural Gurugram and 52 women from Urban Gurugram). Women who suffered from any chronic disease like cardiac heart disease, diabetes or with some orthopedic and musculoskeletal problem that effected the compliance to participate in exercise testing were excluded from study. They were explained about the purpose and procedure of the study and their consent was taken for participation. Cardiopulmonary fitness was tested using Harvard Step test and mental health was tested by using middle sex heath questionnaire.

Result and Conclusion: Results of the study concluded that 40% of the females had below average cardiac fitness and just 6 % had excellent cardiac fitness. Physical inactivity was 1 of the contributing factor for poor fitness. 64% of post menopausal women had poor psychological health. They suffered from anxieties, stress due to declining physical health, growing health issues, decline in fitness and various other social and psychological stressors.

Biography

Sheetal Kalra born and brought up in Gurgaon, Haryana, she did my graduation from DAV College of Physiotherapy and Rehabilitation Yamunanagar and post-graduation in Sports Rehabilitation from S.B.S.P.G.I Dehradoon. She is also pursuing PhD in Physiotherapy from SGT University Gurugram. She have worked with reputed organizations like Indraprastha University, Manav Rachna International University and Guru Jhambeshwear University. Presently she is working as Professor and Associate Dean ,Faculty of Physiotherapy, SGT University, Gurugram.

sheetal.kalra@sgtuniversity.org

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Book Mark Dates

World Orthotic and Prosthetic Innovation Conference

August 26-27, 2019 | Dubai, UAE

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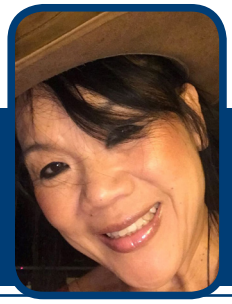
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Keynote Forum
Day 2

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February 25-26, 2019
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Huang Wei Ling

Medical Acupuncture and Pain Management Clinic, Brazil

Why orthopedic patients still catch hospital infections despite the practice of infection prevention and control programs & can hospital Osteomyelitis be treated without the use of antibiotics?

Statement of the problem: Very few publications provide sound scientific data used to determine which components are essential for Infection Prevention and Control (IPC) programs in terms of effectiveness in reducing the risk of infection. As surgical procedures are common in the orthopedics specialty, the difficulty in preventing infections influences the orthopedic treatment outcome. The purpose of this study was to show why patients still catch hospital infections despite IPC programs. A better understanding of a variety of theories could explain the physiopathology of diverse diseases described in the medical past history, as in Traditional Chinese Medicine. A broader view seems to show the necessity of seeing the patient completely; not only focusing on the disease in the prevention of these hospital infections. The methodology used was a review of these theories such as those presented by Hippocrates ("Natural forces within us are the true healers of disease."), as well as others from oriental medicine, which explain that diseases originate from three factors: external (exposure to cold, heat, humidity, wind and dryness), internal (emotional) and dietary.

Findings: Having a broader view of the patient as a whole (Yin, Yang, Qi, Blood energy and Heat retention), we can understand better the formation of hospital infection which is a systemic energy reaction of the body undergoing normal hospital treatment.

Conclusion: To understand better why patients are still catching hospital infections, despite IPC programs, we need to broaden our view observing all emotional, environmental and dietary factors, as well as studying the energy imbalance at the moment of admittance, or prior to the orthopedic surgery. Every patient is unique and to achieve a more successful treatment, it is important to individualize them. Therefore, it is possible to identify those who have more risk of hospital infection, studying them in their energy levels.

Biography

Huang Wei Ling has graduated in medicine in Brazil, specialist in infectious and parasitic diseases. She is a General Practitioner and Parenteral and Enteral Medical Nutrition Therapist. Once in charge of the Hospital Infection Control Service of the City of Franca's General Hospital, she was responsible for the control of all prescribed antimicrobial medication and received an award for the best paper presented at the Brazilian Hospital Infection Control Congress in 1998. Since 1997, she works with the approach and treatment of all diseases of all systems of the human body in a holistic way, with treatment guided through the teachings of Traditional Chinese Medicine and Hippocrates.

welingmg@gmail.com

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Sheetal Kalra

SGT University, India

Integrated role of yoga and physiotherapy in sports injuries prevention

According to a recent estimate approximately 30 % of the population worldwide is engaged in one or other kind of sports and approximately 60 % of them suffer from various kinds of sports injuries and a large percentage of sports men are rendered unfit for further sports life due to the nature of injuries they suffer from. Poor fitness in the form of inadequate flexibility needed for the type of sports, core strength, balance, agility and the psychological factors like anxieties, stress associated with the game not only hamper the performance of the players but also make them prone to injuries. Physiotherapy has its origin in Yoga. Integrated role of Physiotherapy and Yoga can be useful components of comprehensive preventive and treatment programs in athletic injuries. The aim of Yoga is to bring balance into the body physically, mentally and emotionally. The mind-body connection in yoga is essential to helping athletes develop mental acuity and concentration. In addition, yoga helps to relax not just tight muscles, but also anxious and overstressed minds. Various health benefits associated with Yoga and Physiotherapy are improved flexibility, strength endurance, neuromuscular coordination, enhanced control over body movements and hence prevent injuries by conditioning of the athlete. The integration of physiotherapy with yoga offers an evidence based approach not only to enhance the fitness and performance of the sports men but also prevent injuries on field as well as off field.

Biography

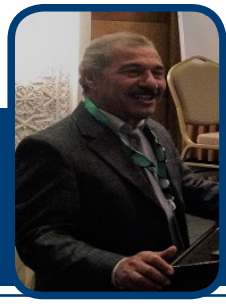
Sheetal Kalra born and brought up in Gurgaon, Haryana, she did my graduation from DAV College of Physiotherapy and Rehabilitation Yamunanagar and post-graduation in Sports Rehabilitation from S.B.S.P.G.I Dehradoon. She is also pursuing PhD in Physiotherapy from SGT University Gurugram. She have worked with reputed organizations like Indraprastha University, Manav Rachna International University and Guru Jhambeshwear University. Presently she is working as Professor and Associate Dean ,Faculty of Physiotherapy, SGT University, Gurugram.

sheetal.kalra@sgtuniversity.org

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Abdulrahim Aljayar

Aljala Teaching Trauma Hospital, Libya

A modified Sayre's technique, for correction of congenital Radial Club Hand Deformity

Congenital radial club hand is a spectrum of complex pre-axial upper limb defect, Characterized by radial deviation and flexion of the hand, hypoplasia, or aplasia of the radius and thumb, shortened forearm and generalized underdevelopment of the involved extremity. Since first described by (Petit) in 1733, however a huge diversity of techniques ranging conservative stretching, to the complex microsurgical interventions, have been suggested, for treatment, the centralization remains the core idea, despite the recognized relapse rates. Such diversity would reflect the great challenge of management. Here is a prospective assessment of our local exposure, and satisfying results of correction in13 hands with congenital radial club hand deficiency, in 10 patients, using a newly modified technique (Sayre). Where we achieved a mean total hand-forearm angulation correction of 71.5 degrees, left with only 8.4 degrees mean residual angulation after an average 3.8 years follow up.

Biography

Abdulrahim Aljayar is a consultant Orthopedic surgeon in Aljala Hospital, Libya. He was a former consultant hand surgeon in Benghazi Hospital. He received many awards and rewards in several National and International Conferences.

aljayar@yahoo.com

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Scientific Tracks & Abstracts
Day 2

Oral Session I

Computed Tomography | Molecular Imaging

Chair
James Stoxen
Team Doctors Treatment Center, USA

Co-chair
Abdulrahim Aljayar
Aljala Teaching Trauma Hospital, Libya

Session Introduction

Title: **Anatomical variants of the circle of willis: A computed tomography angiography based study**
Arathy Mary John, Manipal Academy of Higher Education, India

Title: **Assessment of RV function in ASD by using tissue doppler imaging and strain rate imaging**
Keerthana Wilson, Yenepoya Medical College, India

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Anatomical variants of the circle of willis: A computed tomography angiography based study

Arathy Mary John, Komal Priya, Prabath Sharma and **Samir M P**
Manipal Academy of Higher Education, India

Knowledge of the presence of normal variants of Circle of Willis (COW) plays a crucial role in the diagnosis and management of cerebro vascular disorders1. Based on radiological and anatomical studies, no more than 50% of the general population have a complete Circle of Willis (COW) 2. It is proven that Lack of knowledge of the anatomical variants of COW is the cause of approximately 10% of medical errors3. Sensitivity (81%–90%) and specificity (93%) of multi-detector CT angiography (CTA) are reported to be high in identifying the anatomical variants in Circle of Willis (COW)4. Aim of this study is to identify the frequency of anatomical variants in Circle of Willis by using Computed Tomography Angiography (CTA) and to determine the gender association of COW anatomical variants. In this retrospective study COW CTA images of 400 patients are reading by a radiologist to identify the variants by using Multi Planar Reconstruction (MPR) mages, Maximum Intensity projection (MIP) images and Volume Rendering (VR) images.. Variants present in anterior circulation (A1 segment, Anterior Communicating artery (AComA) and A2 segment), posterior circulation (P1 segment, Posterior Communicating artery (PComA) and P2 segment), Middle cerebral artery (MCA), Basilar and vertebral artery, internal carotid artery (ICA), and others will be studied. Data will be analyzed by using SPSS and frequency of variants will be identified. Chi-Square test will be used to find out the association of variants among gender.

arathymary.john@manipal.edu

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Assessment of RV function in ASD by using tissue doppler imaging and strain rate imaging

Keerthana Wilson
Yenepoya Medical College, India

Assessment of Right ventricular function plays a major role in the Evaluation of Atrial Septal Defect. The introduction of Doppler measurement of myocardial wall velocities (tissue Doppler imaging; TDI) and the recent development of strain rate imaging (SRI) technique have made a more adequate assessment of global and regional systolic and diastolic RV function possible. This study was conducted to evaluate the RV function by using newer echocardiographic indices such as Tissue Doppler Imaging & Strain Rate Imaging. A prospective study was conducted among 64 adult patients admitted for ASD device closure in the department of cardiology at Narayana Institute of Cardiac Sciences (NICS) Bangalore. A basic apical 4chamber (A4CH) view was taken during echocardiography in which the tissue motion velocity is superimposed for real time colour display. TDI annular velocities during systole, early relaxation (Ea), and atrial systole (Aa) were possessed from RV free wall (FW) and inter ventricular septum at basal site in the A4CH view. Deceleration time (DT), isovolumic relaxation time (IVRT), isovolumic contraction time (IVCT) and ejection time (ET) were measured. For the analysis of global RV function, Doppler parameters are used to derive the Tei index i.e. (IVCT+IVRT)/ET. The stain and strain rate was estimated from the RV focused AP4CH view from tissue Doppler data, by calculating the velocity gradient. All these measurements were taken pre and post ASD closure. Data was analyzed by descriptive statistics and Wilcoxon sign rank test was used to find out pre and post procedural comparison. The study showed significant decrease in tissue Doppler parameters including annular velocity, strain and strain rate during immediate post device closure and increase after 1 month of closure. The RV function improved significantly post 1 month of closure compared with post 24 hours.

Biography

Keerthana Wilson is an Assistant Professor and Echocardiographer in Yenepoya Medical College has completed her Masters in Echocardiography and Bachler in CardioVascular Technology from an excellent development team of a progressive hospital where knowledge and skills of an individual are counted, shared and encouraged. She is an expertise in echoardiographic evaluation and has passion in improving the health and wellbeing of the patients. She is having experience in, evaluation and teaching both in hospital and education institutions. She intends to build a career in a challenging environment by adding value to the organization with her subject matter expertise, quick grasp of new facts, patience and skills, and work to be a model with a perfect blend of professionalism and human values.

keerthanawilson@gmail.com

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Video Presentation Day 2

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The effect of flaxseed powder & oil on reduction of hyperglycemia and associated parameters in streptozotocin-induced diabetic rats

Suha Hashim Abduljawad
Taibah University, Saudi Arabia

Introduction: The global prevalence of obesity has reached an alarming rate. In addition to obesity and chronic diseases, high prevalence of micronutrient deficiencies especially iron deficiency anemia (ADA) was observed in many countries.. Among the different potential causes of iron deficiency, the sequestration of iron through an inflammatory mediated was identified as the most probable cause of iron deficiency in obesity. Adipose tissue is recognized as an endocrine organ that contribute to the inflammatory process by secreting proinflammatory cytokines, and The role of hepcidin in the regulation of iron metabolism has been emphasized in recent years. Hepcidin represents the main regulator of intestinal iron absorption and macrophage iron release and, thus, ultimately of the iron available for erythropoiesis.

Objectives: To examine the relationship between fat distribution (WC, total body fat %, and trunk fat %), iron status biomarkers and hepcidin in obese Qatari adults

Methods: Diabetes mellitus was induced in Sprague-Dawley rats using a single injection of multiple low-dose streptozotocin (20, 40 and 60 mg/kg/day, i.p). The rats were divided into six groups consisting of 5 rats in each group. CD, diabetes control; CFP, normal rats feed on diet contain 10% flaxseed powder; CFO, normal rats feed on diet contains 4% flaxseed oil; DFP, diabetic rats feed on diet contain 10% flaxseed powder; DFO, diabetic rats fed on a diet containing 4% flaxseed oil. The measurable parameters were; body weight gain (BWG), food intake (FI), feed efficiency ratio (FER), Total glutathione (GSH), Superoxide dismutase (SOD), Catalase (CAT), blood glucose, total cholesterol (TC), Triglycerides (TG) and high-density lipoprotein cholesterol (HDL-C).

Results: There was a significant decrease in BWG ($P<0.05$) in DFP and DFO groups when compared with C groups. The highest significant increase ($p< 0.01$) of GSH levels and SOD and CAT activity were seen in group CFP when compared to CD group. Supplementation with flaxseed powder in the diet was more effective than flaxseed oil in the reduction of blood glucose level of diabetic rats. DFP group showed the lowest significant ($P<0.05$) decreasing in TC, TG and LDL-C, and the highest significant ($P<0.05$) increasing in HDL-C as compared to diabetic CD group. Conclusion: Diabetic rats in a group which were treated with 10% flaxseed powder were able to partly recover from STZ -induced diabetes within eight weeks when compared to DC group.

Biography

Suha Hashim Abduljawad has completed her PhD at the age of 32 years from king Saud University and Postdoctoral Studies from food and nutrition collage, King Saud University, Saudi Arabia. She has published more than 15 papers in reputed journals and has been serving as an editorial board member of repute.

suha_hashem@yahoo.com

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Robotic equipment in upper limb amputations

O Fadili
University Hassan, Morocco

Human hand is a very important member in our daily life, it is necessary in any activity. However, the loss of all or part of the arm, as a result of trauma, accident or other cause is a catastrophic event for a patient and a significant challenge to rehabilitation professionals and prosthetic engineers. Upper limb amputation have a detrimental effect on the individual's personal, social, psychological and economic life. The amputated patient is deprived of his hand, and as a result deprived of a large part of his life. We designed and created a robotic device, which served to the patients, who lost upper limb, to have a bionic hand under the vocal or myo-electrical command, and which can reproduce the movements elementals of a biological hand. During the design and manufacture of the equipment, we tried to respect the biomechanical rules of the physiological principle. First, we designed the equipment in a 3D modeling software, and used 3D printing convert all virtual file into a real object. All the printed parts are brought together to form all the equipment. Also, we installed servo-motors and connect them to a programmable chipset to ensure the movement of wrist and fingers. The device can be connected to the patient and he use vocal or myoelectrical command to move all the elements of this bionic hand. We are also developing a neurological component so the patient can use his brain to command the hand. Patients with upper limb amputation can recovers their basics hand's functions with this equipment and this after rehabilitation. It is reasonable, however, to state that in the majority of cases the provision of a prosthesis can make a valued addition to the life of the patient and should at least be attempted. Evidence exists that attempting prosthetic rehabilitation immediately after amputation increases the chances of long-term success, whereas a 'wait and try later' approach makes successful rehabilitation less likely. Amputation is a big problem; this bionic hand is an ultimate solution for amputated patients and allow them to recover their hand's functions.

Biography

O Fadili, is a Doctor, inventor and young researcher in University Hassan 2 of Casablanca, Morocco. He published several papers in medical and robotic field. He received many awards and rewards at his young age. He was nominated as the Young Researcher of 2018 by winning the award of The International Conference of Orthopedics and Advanced Cares in Dubai at the Young Researcher Forum 2018. He did several internship and externship and established a remarkable bench mark on prosthetic field by designing and modeling bionic hands and prosthetic arms. His field of interest includes medical research, orthopedics and rehabilitation.

drfadiliomar@outlook.fr

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Ganglion cyst of Hoffa's fat pad of knee-a rare cause of anterior knee pain and swelling

Rakesh Goyal
Lok Nayak Hospital and Maulana Azad Medical College, India

Ganglion cysts around knee joint are uncommon and that from Hoffa's fat pad are even rarer. We present a case of 30 year old male patient with complaint of pain and swelling in left knee joint. Radiograph did not show any bony abnormality. MRI showed large tubulocystic lesion within Hoffa's fat pad which showed low signal intensity on T1-weighted images and high signal intensity on T2-STIR images. Open excision of the lesion was done. Histopathology of the specimen confirmed the diagnosis of the ganglion cyst. In follow-up, patient had asymptomatic left knee with full range of motion and did not show any sign of recurrence. Ganglion cysts from fat pad though very rare but should be considered in differential diagnosis to have an early diagnosis and management. Symptomatic ganglion cyst should be excised by open procedure or arthroscopically depending upon the size and extent of the lesion.

Biography

Rakesh Goyal has completed his Master of surgery in field of orthopedics from Gujarat University, India. Previously he has worked as Senior Resident in Sir GangaRam Hospital, New Delhi. He is currently working as Senior Resident in department of orthopedics in Lok Nayak Hospital and Maulana Azad Medical College, New Delhi, India.

goyal.rakesh.in@gmail.com

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A rare case of traumatic posterior dislocation of hip in a 7 year old child following trivial trauma

Rakesh Goyal
Lok Nayak Hospital and Maulana Azad Medical College, India

Traumatic hip dislocation is relatively rare in children .It accounts for 5 % of total hip dislocations in all age groups. We reported a case of hip dislocation in 7 year old child following trivial trauma. Diagnosis was confirmed clinically and radiologically. Reduction was done after four hours of injury under general anesthesia and fluoroscopic guidance .Post reduction radiograph and Computed tomographic scans showed joint congruency. Post reduction abduction bar was given and child kept non weight bearing initially and allowed weight bearing gradually as tolerated. At 10 weeks post reduction, patient has full range of motion at right hip joint and able to walk with full weight bearing. Reduction should be done as soon as possible to avoid complications like avascular necrosis.

Biography

Rakesh Goyal has completed his Master of surgery in field of orthopedics from Gujarat University, India. He has worked as senior resident in Sir Ganga Ram Hospital, New Delhi. He is currently working as senior resident in department of orthopedics in Lok Nayak Hospital and Maulana Azad Medical College, New Delhi, India.

goyal.rakesh.in@gmail.com

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Management of Medial Patellofemoral ligament injury- A case report

Hiren Sarma
Solace Hospital and Research Centre, India

The medial patellofemoral ligament (MPFL) is the primary stabilizer of the patellofemoral joint; its reconstruction has been recommended in adults over the past decade after recurrent patellar instability. However, there has been no standardized technique for reconstruction, therefore, ideal graft and technique for reconstruction are as yet undetermined. We performed this procedure in a patient with chronic pain and patellar instability following trauma. MPFL reconstruction was done with hamstring tendons detached distally and secured to patellar periosteum after being passed through a bony tunnel in the patella without an implant and using the medial collateral ligament as a pulley. The MPFL reconstruction was isolated and was not associated with any other realignment procedures. No recurrent episodes of dislocation or subluxation were reported at 6 weeks follow up. The initial treatment of patellar instability is always conservative mainly Quadriceps progressive strengthening exercises (focusing on vastus medialis obliqus) and braces. Surgical treatment is indicated only when patient remains symptomatic after a fair conservative trial.Medial patellofemoral ligament (MPFL) is the most important static stabilizer of the patella, contributing 50-60% (average 53%) of the restraint during initial 30 degees of knee flexion. 94% patients of patellar dislocation have been found to have involvement of MPFL, 70% at the patellar insertion and the rest at the femoral origin. In all, however, there is also interstitial damage. Patellar tracking is significantly affected by a lateral force in the absence of the MPFL, but returns to normal following reconstruction. The Anatomic Double Bundle MPFL Reconstruction technique replicates the native shape of the MPFL and provides the best possible stability in both flexion and extension. The Double Bundle technique also effectively limits rotation throughout the ROM minimizing postoperative instability. So MPFL reconstruction surgeries are increasingly being used for recurrent patellar dislocations. The technique, if accomplished anatomically, may also provide for more aggressive rehabilitation protocols and earlier return to activity.

Biography

Hiren Sarma is known among his peers and colleagues for his yearning keenness into matters of concern at hand. He has his prowess and passion into systemic investigation of burning issues of health and wellbeing. The conceptual framework of the current paper, i.e. anatomical double bundle reconstruction technique for MPFL, has been derived from the works of Dr. M. Kalra et al. He has completed his postgraduate studies from Southern Railway HQ hospital under National Board of Examinations, India. He is the Head of the department, Department of orthopaedics, Solace Hospital and Research Centre, Assam, India, a premier organization in the field of healthcare.

hirensarma030288@gmail.com

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A rare case of giant cell tumor of tendon sheath of Hoffa's fat pad of knee misdiagnosed as ganglion cyst

Rakesh Goyal
Lok Nayak Hospital and Maulana Azad Medical College, India

A giant cell tumor of tendon sheath (GCTTS) is a benign lesion whose presence in Hoffa's pad has been rarely reported. In this case report we have demonstrated a case of GCTTS in a 37 year old female in Hoffa's fat pad of knee. The patient had presented with the symptoms of pain and swelling in her left knee and provisionally diagnosed as ganglion cyst. The radiographic findings were inconclusive. The diagnosis was confirmed with excisional biopsy after the tumor was completely removed. This is a unique case report which shows the presence of a large tumor (5×3×2 cm) in Hoffa's fat pad which was diagnosed as GCTTS and managed with open-resection due to its size. Oxford knee score has improved from 34 from the time of presentation to 58, six months post surgery. The patient was pain free, had full range of motion and had returned to previous level of activities and there was no sign of any recurrence. Giant Cell Tumor should be kept as a differential of non-traumatic chronic knee pain in young individuals.

Biography

Rakesh Goyal has completed his Master of surgery in field of orthopedics from Gujarat University, India. He has worked as senior resident in Sir GangaRam Hospital, New Delhi. He is currently working as senior resident in department of orthopedics in Lok Nayak Hospital and Maulana Azad Medical College, New Delhi, India.

goyal.rakesh.in@gmail.com

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A two-pointer filtering method on breast ultrasound images (BUS) to improve segmentation with traditional algorithms

Rasheed Abid
Uttara University, Bangladesh

Segmentation is a challenge when applied on ultrasound images. Noise, speckle and artifacts make it relatively harder for any segmentation algorithm to successfully segment the region of interest (ROI) with high accuracy. As a first step towards segmentation, most algorithms take the edge-map of the image to get an approximate idea about the gradient change. For ultrasound breast image, the edge image provides almost no clear information at all. The purpose of this study is to filter the edge image so that the traditional segmentation algorithm improves. Methodology: We propose a semi-automatic technique that improves the edge-map around the lesion area of a BUS image. Improving the edge images require manually initializing two points on the original image, which will cover a major region of the ROI and from there the method will initialize a simple shape automatically. This shape is used to determine estimated pixel information of the ROI and then two separating pointers are used on its histogram to filter the main image. This filtered image, which we call intermediate image, has a better edge-map with respect to the original edge-map. Findings: General segmentation has yielded better results on these filtered images. Dice Similarity Co-efficient values proved that the segmentation on the filtered images increase by a few percentages depending on the type of algorithms used. Conclusion & Significance: Further investigation into the algorithm can improve the efficiency for general BUS images. Improving the edge-map will give a better result for CAD systems that will find cancer cells and their segmentation.

Biography

Rasheed Abid is a graduate in Electrical and Electronic Engineering from Islamic University of Technology. Being a programming enthusiast, he completed his major in Biomedical imaging. Currently he is working on a filtering method that will develop the edge image of Breast Ultrasound Images.

r.abid94.bogra@gmail.com

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Relationship between fat distribution, iron status biomarkers and hepcidin in obese Qatari adults

Abdelhamid Kerkadi
Qatar University, Qatar

Introduction: The global prevalence of obesity has reached an alarming rate. In addition to obesity and chronic diseases, high prevalence of micronutrient deficiencies especially iron deficiency anemia (ADA) was observed in many countries.. Among the different potential causes of iron deficiency, the sequestration of iron through an inflammatory mediated was identified as the most probable cause of iron deficiency in obesity. Adipose tissue is recognized as an endocrine organ that contribute to the inflammatory process by secreting proinflammatory cytokines, and The role of hepcidin in the regulation of iron metabolism has been emphasized in recent years. Hepcidin represents the main regulator of intestinal iron absorption and macrophage iron release and, thus, ultimately of the iron available for erythropoiesis.

Objectives: To examine the relationship between fat distribution (WC, total body fat %, and trunk fat %), iron status biomarkers and hepcidin in obese Qatari adults

Methods: Secondary data was obtained from Qatar BioBank. The sample size consisted of 100 Qatari obese (male and female) aged 21-50 years free of chronic diseases. Subjects were randomly selected from data base. Collected data included anthropometric measurements (Wt, Ht, BMI, WC, % total fat and % trunk fat), iron status biomarkers (iron, ferritin, transferrin saturation, Hb, RBC), hepcidin and transferrin receptors. IDA was defined as Hb <12g/100ml for female and Hgb <13 g/100ml for male.

Results: A high statistically significant association (P<0.05) was observed between IDA and the increase in trunk and total fat. We noted a decrease in ferritin, Hemoglobin, serum iron and RBC with an increase in % fat. There was a statistically significant correlation between the trunk fat% and iron status indicators: ferritin (r = -0.48), Hb (r= -0.64), serum iron (r= -0.29) and RBC (r= -0.51). Results indicated a significant decrease in hepcidin with an increase in total and trunk fat. A strong negative correlation between hepcidin, total body fat and trunk fat.

Conclusion: The results of this study reported a high prevalence of IDA among obese. Abdominal obesity determined (WC, body and trunk fat) was correlated with iron biomarkers.

Biography

Abdelhamid kerkadi obtained his PhD in Human Nutrition from Department of Nutrition, College of Medicine, University of Montreal, Canada in 1999. He joined Qatar University in 2006 and he was Program Coordinator from 2009-2012. He is currently an Associate Professor in Human Nutrition Program, Department of Health Sciences, College of Arts and Sciences, Qatar University. His research is manly oriented to community nutrition and nutrition intervention especially obesity prevention. He recently received a grant (NPRP-Exceptional) from Qatar national Research Fund. He has published peer-reviewed articles in many journals. He serves as the Editorial Board member of Current Research in Nutrition and Food Science , Journal of Food , Agriculture and Environment and Interenational Journal of Nutrition.

abdel.hamid@qu.edu.qa

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Physical activity (PA) pattern in relation to overweight/obesity among adolescents in Mashhad, Iran

Khosro Shafaghi[1] and **Zalilah Mohd Shariff**[2]
[1]Gonabad University of Medical Sciences, Iran
[2]University Putra Malaysia, Malaysia

Background: Obesity is increasing worldwide, reaching epidemic proportions. Besides, childhood obesity is a serious problem for increasing numbers of children around the world. Physical activity levels have declined as the incidence of obesity has increased. Physical activity can be both an antecedent and consequence of obesity. Physical activity is inversely related to overweight/obesity in both children and adults.

Methodology: This cross sectional study was conducted among 1189 urban secondary school children of both low and high socio-economic districts of Mashhad. 10 schools were overall selected among 501 schools via stratified sampling. The validated Physical Activity Questionnaire for Older Children (PAQ-C) was used in this research.

Findings: This study showed that 11.7% of adolescents were obese and 17.3% were overweight. It was found that more than half of adolescents (55.8%) were low physically active, 43.8% reported in moderate physical activity level, and only 0.4% were high physical activity. Physically active and physically inactive included 44.2% and 55.8% of adolescents, respectively. Physically active was little more prevalent among males (53.7%) than females (33.4%). Among overweight/obese adolescents, more than half of males (50.9%) and females (59.9%) were physically inactive. However, the relationship was not statistically significant.

Conclusion: Childhood obesity was a serious health problem in Mashhad. In this research physical activity difference between male and females was significant. The data confirms Iran MOH statistics.

Biography

Khosro Shafaghi has worked as a Lecturer in Kashan University of Medical Sciences in 1990. He also has been lecturer in Gonabad University of Medical Sciences from year 2000 up to present time. In 2007, his passion for community research inspired his to pursue a PhD degree of Community Nutrition, in Universiti Putra Malaysia. He has published several research papers in reputed journals and has presented his research studies in national, regional and international conferences. His current research interest is on overweight/obesity and dietary patterns in children and adolescents, Premier Bio-Soft service organization. He has published more than 25 papers in reputed journals and has been serving as an editorial board member of repute.

dshafaghi!@yahoo.com

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Accepted Abstracts

A rare case of linear and whorled nevoid hypermelanosis with global developmental delay, scoliosis, and retinal degeneration with dermoscopic features

Dipendra Pandey
National Trauma Centre (NAMS), Nepal

Introduction: Non operative treatment for middle third clavicle fractures remained mainstay for until last two decades. But due to the prevalence of nonunion, symptomatic malunion and shortening for displaced fractures, trend has shifted towards operative management. Our study is aimed at prospectively evaluating the functional outcome of 120 patients treated with open reduction and plating with precontoured anatomical plate. This study estimates the functional outcome in terms of DASH score.

Methodology: 120 patients from 16 years to 60 years of age, with displaced (>2cm) and/or shortened (>2cm) or comminuted middle third clavicular fractures were included in this prospective observational study conducted in Bir Hospital and National Trauma Center over four years period. Open reduction and internal fixation with precontoured anatomical plate was done. Postoperatively arm is held in a sling for about 3 weeks with intermittent pendulum exercise after one week or as soon as the pain is tolerable and range of motion started after four weeks of surgery. Patients were followed up on 2, 6, 12 and 24 weeks. Functional outcome was assessed using DASH score. Statistical analysis was done using SPSS 22.

Results: Mid clavicular fractures were more common among males and left side was commoner than right. Younger age group was more commonly affected. All fractures united in a mean radiological union period of 7.1 weeks. 6 cases developed pain, 23 had hardware prominence, 5 case developed superficial infection. DASH score was at significant negligible level by 24 weeks. 98% of patients returned to their work by 12 weeks.

Conclusion: Open reduction and internal fixation with pre-contoured anatomical plate in displaced middle third clavicular fractures is safe procedure that avoids complications associated with non-operative management and provides good functional outcome with early return to pre-injury activities.

dr.diipendra@gmail.com

Recent developments in upper limb prosthetic technology and their clinical impact

DAY SJ
University of Strathclyde, UK

Traditional upper limb prostheses have low acceptance rates with patients often feeling frustrated by their lack of functionality and usability of the device. Efforts have been made in the past two decades to develop prosthetic hands capable of more realistic movements, such as those used in everyday activities of daily living. More recently, research teams have been investigating ways of improving control of these devices, through methods such as targeted muscle re-innervation, pattern recognition, and implantable electrodes. This presentation will explore the clinical impact of prescribing multi-articulating prosthetic hands over traditional terminal devices, considering factors such as acceptance, function, usability and compensatory movements. In addition, we will present clinical findings from teams working towards embodiment of the prosthetic hand.

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Spine osteotomy in deformity

Mohammad Alfawareh
Jordan Spine Center, Jordan

Spinal osteotomy is a surgical procedure usually performed to treat spinal deformity. Spinal osteotomies are often used to achieve spinal balance, stability and correct spinal alignment. Bone is cut in part of the vertebral segment and then removed to realign the spine in proper positioning. Spinal deformity correction surgery with osteotomy is an option when nonsurgical treatments fail to relieve pain or symptoms. There are a number of different types of osteotomy techniques. The specific osteotomy used in surgery depends on the location of the spinal deformity and the amount of correction needed. As part of a spinal realignment procedure, spinal hardware in the form of rods and screws may be used to hold the spine in place while the bones heal. Several osteotomies are known including: Smith Peterson Osteotomy, Ponte osteotomy, Pedicle Subtraction Osteotomy and vertebral column resection. Each had prerequisites, indications and complication, all need special surgical skills and instruments to keep the patient save and avoid complications. We will go through all of them in the presentations.

alfawarehm@yahoo.com

Regenerative Medicine for orthopaedics conditions

Anthony B Goodesmith
Standard Medical Equipment Systems LLC, USA

Cell therapy promises to treat patients with faulty organs (such as the heart, lungs, and liver). Clinical research trials using adult somatic stem cells are currently on going. Osiris Therapeutics, Inc., has shown promise in its line of mesenchymal cells that will help prevent graft vs. host disease common after bone marrow transplants. Osiris Therapeutics, Inc. also uses these somatic stem cells to produce cartilage in injured and arthritic knees and is conducting clinical trials in patients with heart disease. Stem cells in tissue engineering- Tissue engineering are dependent on the premise of the body's own maintenance system. A “scaffold" made of nylon or a biomaterial such as collagen is transplanted into the body. Cells use the scaffold as foundation, transforming it over a period time with organic three-dimensional tissue. Human embryonic stem cells can be used for functional organs, such as a human heart. Somatic rejection or acceptance is key factor that determines whether these stem cell-directed structures can operate efficiently and last the patient’s full lifetime. The Geron stem cell company is clinically testing the safety of their therapy, during the practical surgery following a traumatic injury by fixing damaged human nerves. This would have a positive impact eventually beyond spinal injury to even affect demyelinating diseases, such as multiple sclerosis. Projected to impact Parkinson's disease, where depletion of cells that develop dopamine results in neurons to fire out of control causing depleted function of motor movements.

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The effects of an innovative wearable technology for posture correction

Stephen Liu
IFGWorld, USA

Purpose: To determine the effects of a new wearable tech garment on the scapular alignment and sEMG of scapula and lumbar muscles.

Methods: A random sample of twenty individuals, 11 women and 9 men, was tested (n =20) and a homogenous variance between individual measurements was assumed. Each individual was asked to stand in the resting position while his/her scapula alignment was evaluated using the Lennie Test (3). Age and gender of each participant was recorded, as well as their status as an athlete. Individuals who spent more than 4 days per week in the gym for over 30 minutes were categorized as recreational athletes. A wearable technology integrated in a polycotton fabric light weight crew shirt was used for testing. Before the application of the smart apparel, an electromyograph was used to record muscle activation data of the middle trapezius and lower erector spinae. Patients were asked to stand comfortably and breathe normally. All EMG measurements used three electrodes, one for the middle muscle, one for the end of the muscle, and one reference electrode placed on unaffected muscle groups. EMG measurements were taken in 20 second intervals and transmitted over Bluetooth to be saved on a separate device. After the application of the shirt, an EMG was taken again using the same electrode positions.

Results: After performing a two-sample t-test, it was determined that the effect of the smart wear on resting scapular position, was statistically significant ($p<0.5$). Using a 95% confidence interval, individuals who obtained a scapular positioning difference of between 6.64mm and 21.2mm. In addition, EMG data proved a statistically significant result that the mean frequency and mean voltage were lower in the mid trapezius after the application of the posturepedic shirt. EMG data also proved a statistically significant result that the mean frequency and mean voltage were higher in the erector spinae after the application of the posturepedic shirt.

Conclusion: Application of the innovative smart wear in workplace improves shoulder rounding by retracting the scapula, open the chest, and bringing the resting scapular distance closer to each other. The EMG data further support our hypothesis that by bringing the scapula's closer together, the middle trapezius muscle shows less activity with less activation of sEMG, and the lumbar muscle has more muscle activation to provide better support. The study also revealed that there is no statistical significance of either age or gender on the effectiveness of the shirt however, recreational athletes did show increased scapular retraction compared to non-athletes. The application of a light smart wear in workplace can improve ergonomics and reduce occupational hazards in many healthcare professional workplaces.

stephen@ifgworld.com

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Functional outcome of operated case of pelvic fractures from level I trauma center: A prospective observational study

Saurabh S and **Trikha V**
AIIMS, India

Objective: This study aims towards evaluating patients who sustained pelvic fracture and to evaluate their functional, radiological and quality of life outcome.

Material and methods: This was a prospective observational study done from March 2015 to April 2016. Total 30 patients were operated during this period. Approach was decided as per fracture pattern. Post-operatively, they were followed with radiographs and clinical examination at 6 weeks, 3 months and 6 months. Functional scoring was done using Majeed functional score and radiological grading was done using Matta's criteria. WHOQOL-BREF score was used to assess quality of life. Statistical analysis was done by using Stata 11.0 software.

Results: Functional outcome were excellent in 20 patients, good in 9 and poor in 1 patient. Quality of life score was more than 70 in all domain. Radiological healing was present by 4.5 months.

Conclusion: Multi-disciplinary approach is required for management of pelvic fractures. Good functional, quality of life and radiological outcome can be achieved with operative treatment of unstable pelvic fractures.

sau.smart10@gmail.com

Study on Correlation of musculoskeletal components in Diabetes Mellitus

Jaganjyoti Das
Shree Guru Gobind Singh University, India

Introduction: Diabetes is one of the most common non-communicable diseases worldwide and is foremost cause of death in most high income countries as this disease is known to be most challenging health related problems of 21st century. Prevalence of diabetes increases with age, the impact of diabetes on disability is more in aging population than in younger population. This increasing prevalence results in increasing incidence of the diabetes and related conditions including rheumatic manifestations. The proposed study is to find out relationship between the Fasting blood sugar level with musculoskeletal manifestations such as Pain, shoulder disability, lower limb function, ROM of upper and lower limb joints, Muscle strength as well as bone mineral density in diabetic population.

Methodology: An observational and descriptive study was done with 113 patients consisting of 58 male and 55 females having mean age 57.87 in Patiala and the samples were collected by convenient random sampling method. After collecting the demographic details the subjects underwent BMD ,FBS ,SPADI ,LEFI ,ROM and VAS testing and then isometric muscular strength was measured. Data was analyzed with Mean, standard deviation and Pearson's correlation coefficient.

Results: The results were non-significant for all the variables analyzed with p-value >0.05 from the Pearson's correlation coefficient. The mean BMD is found to be 1.05±0.27. LEFI findings show most common affected age was 61-70 years with 38% population and least affected was 41-50 with 7% population. SPADI scale shows that 7% had mild to moderate type of pain, 10% had mild and 2% had severe disability of shoulder. VAS shows 5% population had mild pain and 13% population had moderate pain.

Conclusion: The study concluded that there was no significant relationship of Fasting blood sugar with bone mineral density, pain intensity, shoulder pain and disability, lower extremity function and Range of motion. Diabetic subjects need to control blood sugar level both through pharmacologically and non-pharmacologically i.e. physical activity, proper diet to reduce the risk of the further complication of diabetes as the age, physical inactivity and BMI has direct relation with musculoskeletal complications.

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Social environments influencing obesity in Israel - A qualitative study among health workers focusing on three ethno-religious groups

Mahasweta Mitra[1], Philippa Clarke[1], Arnold Monto[1], Ronit Endevelt[2], Rivka Goldsmith[2]
[1]University of Michigan-School of Public Health, USA
[2]Israel Ministry of Health- Nutrition Division, USA

The prevalence of overweight or obesity in Israel is 60% and 30% for adults and children respectively and this burden is higher among ethnic minorities. Cultural beliefs, practices and levels of acculturation contribute to ethnic disparities in obesity. This qualitative study identifies cultural determinants of obesity by studying the social environments among three population groups in Israel: Ultra-orthodox Jews, settled Muslim Arabs and Ethiopian Jews, the latter two being ethnic minorities in the country. The study was conducted at the Israel Ministry of Health in Jerusalem. Nine healthcare experts from varying professional and ethno-religious backgrounds were interviewed using a semi-structured interviewing technique. The data describing different social environments influencing obesity in Israel were divided into six primary themes. This was further broken down to secondary and tertiary themes within each of these three populations. The influence of Westernization on lifestyle practices and eating habits among Ethiopian Jews and Muslim Arabs was identified as one of the primary themes. Haredi Jews on the other hand practice traditionalism. Norms such as "fatness as a sign of affluence" was prevalent in the Ethiopian culture and is seen as obesogenic health behaviour. Additionally, psychosocial stressors arising from low socio-economic status (SES) in both the minority groups are viewed as a barrier in making healthy life choices. Socio-cultural norms pose an increased burden of obesity among the Ethiopian Jews and the settled Arabs who are both ethnic minorities in Israel. This dictates the need for targeted population-based interventions to address obesity in these populations.

Obesity, diet and nutrition

Sudhir Kowlessur
Minsitry of Health and Quality of Life, Mauritius
Department of Non- Communicable Disease and Health Promotion Unit, Mauritius

Introduction: The findings of the continuing rise in the prevalence of obesity in Mauritius mandates that current obesity prevention activities are reviewed against the world's best practices as established both in developed and developing countries.

Obesity Prevention Programme: (a) A National Service Framework for Diabetes has been developed for the prevention, treatment and control of diabetes in Mauritius. (b)A Mobile Clinic Programme has been implemented to carry out screening for NCDs in the Community / Worksite / Secondary School (c)Physical Activity Programme is being enhanced (d) Empowerment Programme are organized to empower Health Personnel and Community Health Leaders (e) Some of the sensitization programmes are also backed up by the media campaigns (f) Sensitization Campaigns are organized regularly to sensitize the community at large (g) National Plans of Action on Physical Activity and Nutrition have been developed. (h) Findings of the Mauritius Type 2 Diabetes Prevention Study which was a 3-year study. Achievements: (a) The prevalence of Diabetes has remained stable (b) Pre-diabetes has declined (c)There is an increase in prevalence in physical activity among both male and female adults aged 20 to 74 years.

Conclusions: Various measures for the prevention of obesity in Mauritius have been undertaken. However, though some positive points have been noted, yet more efforts are required to combat obesity in Mauritius.

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Role of calcium and vitamin D supplementation in dairy for the management of metabolic syndrome following an iso-caloric meal

Muhammad Umair Arshad and **Ali Imran**
Government College University Faisalabad, Pakistan

High dairy or calcium intake has been linked to the reduction of insulin resistance. However, the role of calcium in aspect of amount and source is not explored. Therefore, the present study was conducted to examine the effects of high and low levels of calcium dairy products as well as its sources, natural versus supplemented, on glucose homeostasis and appetite regulation. In a randomized, cross over design, twenty healthy male subjects (20-30 years) were provided two iso-caloric servings (250ml) of either; i) Boiled fresh milk (BFM; control), or ii)Low calcium milk (LCM; Nestle Milkpak; 250mg Ca), or iii) Low calcium simulated milk beverage (LCS; 250mg Calcium carbonate), or iv) High calcium simulated milk beverage (HCS; 500mg calcium carbonate). Following dairy product intake, the subjects were served an ad libitum pizza meal at 120min to assess the food intake. After that, blood glucose (BG), average subjective appetite (ASA), serum insulin and satiety related hormones were measured at different time intervals. The BG concentration was reduced ($P<0.0001$) in control and HCS groups compared with LCS group, without disproportionately increase in insulin. In addition natural source of calcium (control), higher calcium levels were observed to reduce BG levels compared with its lower counterpart ($P=0.0002$). However, post-treatment average subjective appetite ($P=0.0017$) and food intake ($P=0.0021$) were significantly reduced due to amount of calcium, but not source of calcium. HCS further significantly improved GLP-1 concentration ($P<0.0001$). Both amount and source of calcium regulate glycemic responses, while satiety responses were mainly affected by the amount of calcium but not from its source.

umairfood1@gcuf.edu.pk

A critical investigation of childhood obesity: Causes and consequences

Muhammad Modassar AN Ranjha
University of Sargodha, Pakistan

Obesity is a community dilemma in the world full of malnutrition. Obesity is not just common in underdeveloped countries, but also a leading disorder in the developed countries, especial among the school going children. It has been shown by many studies that junk, snacks, poor nutrition and less physical activity level are the possible causes behind the obesity in childhood besides genetics being a possible etiological factor that influences physical, mental and psychological health, and on emotional and social wellbeing. Availability of poor and non-nutritious diet (junk, snacks, fast food, soft drinks) on the school canteens is the most influencing factor. Furthermore, obesity also leads to the bad academic performance and poor performance in co-curricular and extra-curricular activities. Poor check and balance by the parents to the diet of their child is a critical predicament. Obesity in the childhood leads to the obesity in adulthood. It has been shown by many studies that some fatal health hazards like diabetes and cardiovascular diseases are possibly originated from the obesity.

umairfood1@gcuf.edu.pk

INDEX

C Jain	37

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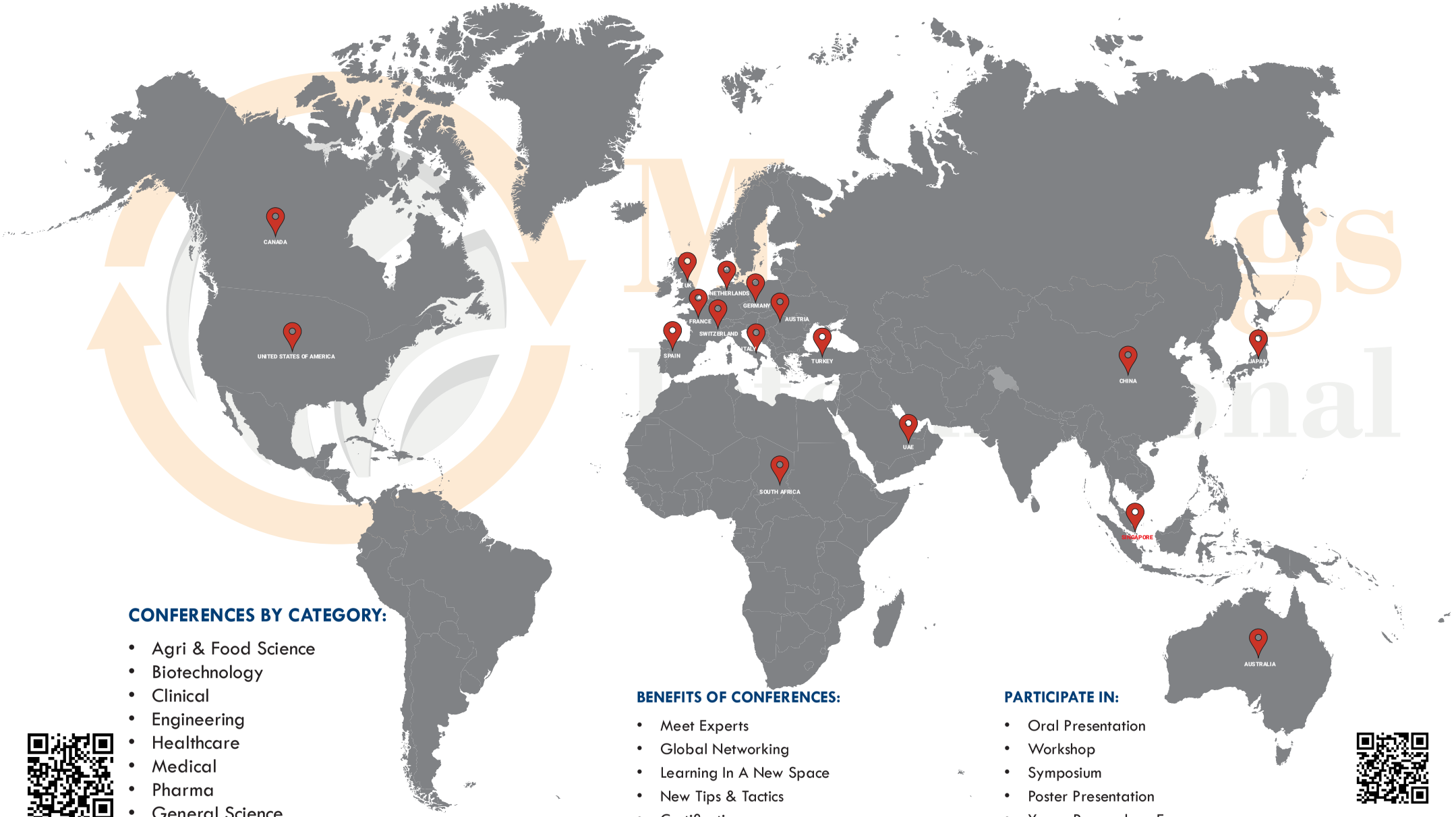


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