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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah : *Psychosocial Associated and Predictors of Post Stroke Depression 3- 6 Months after Onset: A Systematic Review*
 (Artikel)
 Jumlah Penulis : 4 orang
 Status Pengusul : penulis ke - 4
 Identitas Jurnal Ilmiah : a Nama Jurnal : *Pakistan Journal of Medical & Health Sciences*
 b Nomor ISSN : 1996-7195
 c Vol, No., Bln Thn : Vol 13, Issue 4, Thn 2019
 d Penerbit : *Department Of Surgery, Mayo Hospital*
 e DOI artikel (jika ada) : -
 f Alamat web jurnal : http://pjmhsonline.com/2019/oct_dec/index.htm
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 g Terindex : ESCI dan Web of Science

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2. Ruang lingkup dan kedalaman pembahasan:

Ruang lingkup pembahasan artikel sudah cukup mereview faktor psikososial yang mempengaruhi post stroke depression pada pasien stroke iskemik serebral 3-6 bulan dari awal serangan. Beragam faktor psikososial sudah dibahas secara mendalam melalui review beberapa artikel yang relevan.

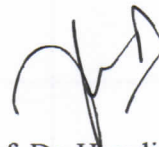
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Informasi dan data yang disediakan tergolong cukup karena sudah mereview 9 artikel dengan tema yang spesifik. Jarangnya tema penelitian dengan sampel yang spesifik memberkahi hasil review dari tema terkait. Metode yang digunakan juga sudah sesuai dengan isi artikel. Beberapa referensi/hujukan yang digunakan adalah terbitan 10 tahun terakhir sehingga masih relevan.

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Depok, 16 Maret 2020
Reviewer



Prof. Dr. Hamdi Muluk, M.Si.
NIP. 196603311999031001
Unit kerja : Fakultas Psikologi
Universitas Indonesia
Bidang Ilmu: Psikologi

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2. Ruang lingkup dan kedalaman pembahasan:

Artikel ini mengulas review secara sistematis mengenai faktor-faktor psikososial yang mempengaruhi post stroke depression yang dialami pasien stroke iskemik setelah 3 – 6 bulan dari waktu awal serangan. Pembahasan tergolong mendalam dan spesifik karena variabel yang diteliti dinamikanya hanya ditemukan pada sampel yang spesifik. Beragam faktor psikososial telah diaparkan secara jelas dari hasil review.

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Surabaya, 11 Maret 2020

Reviewer,



Prof. Dr. Drs. Cholichul Hadi, M.Si., Psikolog

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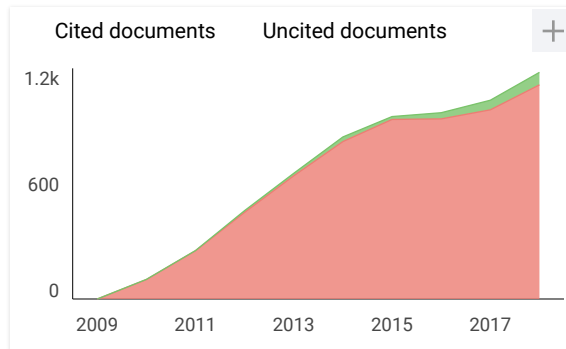
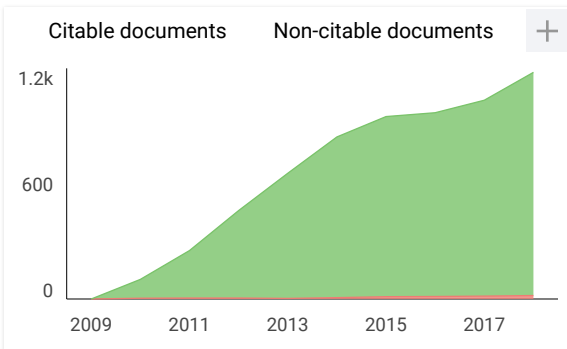
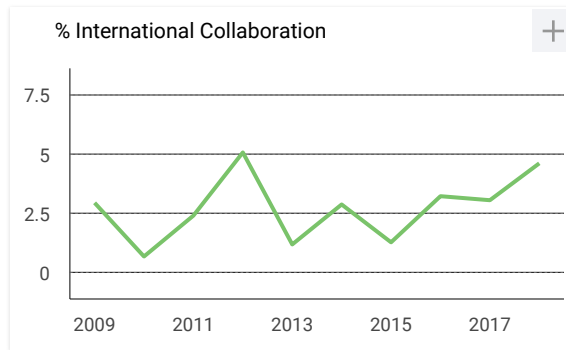
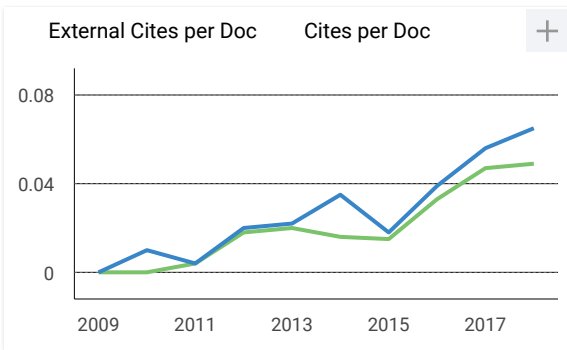
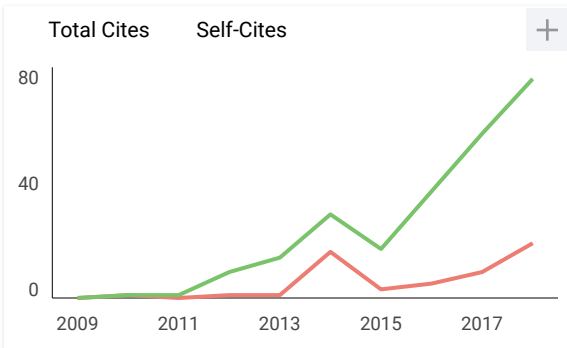
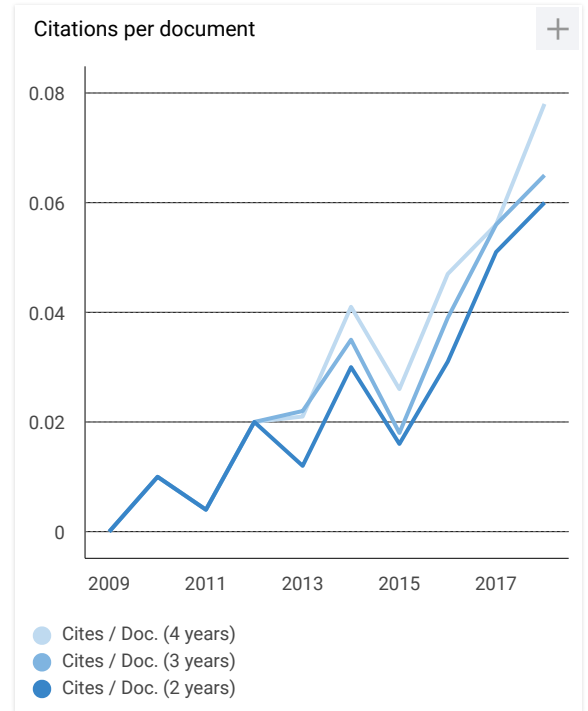
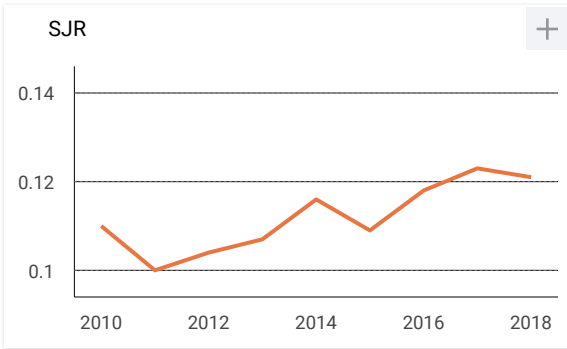
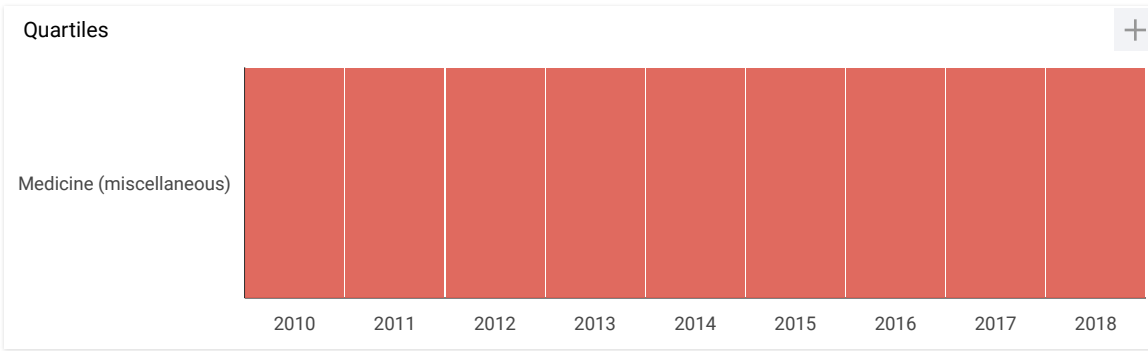
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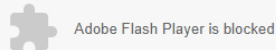
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Injuries to the duodenum – prognosis correlates with body Injury Severity Score: A prospective study[☆]

Munir Ahmad Rathore^{*}, Syed Imran Hussain Andrabi, Syed Muzahir Najfi, Zafarullah Chaudhry, **Abdul Majeed Chaudhry**

Casualty and Emergency Block, Department of Surgery, Mayo Hospital, King Edward Medical College, Lahore, **Pakistan**

KEYWORDS

Duodenum;
Injuries;
Repair;
Fistula;
Mortality

Abstract *Background:* Duodenal injury is an important hollow viscus injury in the abdomen. The study analysed the factors related to the outcome of duodenal injuries presenting to the unit.

Patients and methods: Prospectively collected data on a case series involving 23 patients over three years. It involved demographic details, Injury Severity Score, Revised Trauma Score, part of duodenum injured, duodenal injury severity according to the AAST, injury-operation time lag, mode of repair, and the extent of significant associated injuries. Patients with non-perforating injury were excluded.

Results: M:F ratio was 9:2. Median age was 33 years. All were operated by a senior registrar or senior. Seven out of 23 were blunt, 13/23 firearm and 3/23 stab injuries. D2 was involved in 87%. Duodenal injury severity was graded according to American Association for Surgery of Trauma-Organ Injury Scale (AAST-OIS). Seventeen/23 were Grade II/III, 3 Grade IV and 3 Grade V injuries. Four had injury-operation lag of >18 h. Two injuries were missed. All injuries up to Grade IV had simple repair. Two of them had T-tube duodenostomy. None had pyloric exclusion. Complex repairs were required for 3/23 patients. Five patients died. Duodenum-related mortality was zero. The mortality was related to body Injury Severity Score >45. One delayed repair developed duodenal fistula. Intra-abdominal abscess, septicaemia and wound dehiscence were seen in two patients each. Adverse prognostic factors towards *morbidity* was injury-operation lag >18 h.

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Introduction

Duodenal injuries form three to five percent of all abdominal injuries and blunt duodenal trauma forms 0.2% of the same.¹ Isolated duodenal injury is rare. The anatomical risk of associated injuries to the main pancreatic duct (MPD), common bile duct (CBD), the portal vein, abdominal aorta and inferior vena cava, superior mesenteric vessels and

[☆] Funds Routine hospital resources.

^{*} Corresponding author at: 23 Wallace Avenue, Lisburn BT27 4AE, Northern Ireland, UK. Tel.: +44 28 9267 5610.

E-mail addresses: munirrathore@yahoo.com (M.A. Rathore), imranandrabi@gmail.com (S.I.H. Andrabi).



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CASE REPORT

Love thy neighbour—a case report of fingertip necrosis following neighbour strapping

Abid Rashid*, Omar A. Ahmed, Andrew J. Diver, Mohammad Haj Basheer, Kevin J. Herbert

Northern Ireland Plastic and Maxillofacial Service, Ulster Hospital, Dundonald, Belfast BT16 1RH, Northern Ireland, UK

Accepted 5 April 2004

Introduction

Neighbour strapping is a common method of splinting the injured finger. If applied too firmly, like any circumferential dressing, it has a risk of compromising the distal circulation. We present a case of fingertip necrosis following the application of neighbour strapping. Despite an intensive Medline search, the authors could not find any such case in the medical literature and believe that this is the first one to be reported.

Case report

A 24 year old female, otherwise healthy, injured the left ring finger when she fell down the stairs at home. She attended the accident and emergency department the following day. Her main complaints were of pain and swelling in the affected finger, which interrupted her sleep. X-ray examination at the time did not show a fracture or a dislocation. A neighbour strapping was applied, splinting the ring and middle fingers together using adhesive tape. She was discharged home on analgesics. Four days later, she attended again complaining of severe pain and discolouration of the fingertip. A further X-ray revealed no evidence of

a fracture or a dislocation. The neighbour strapping was reapplied and strong analgesia was prescribed. Two weeks later, she re-attended with a painless and black fingertip, and at that point, she was referred to the plastic surgery department for further management. On examination, the left ring fingertip was mummified with a clear line of demarcation (Fig. 1). The tip was subsequently formally amputated.

Discussion

Traditionally the 'strapping' of the injured digit with its 'neighbour' is done by circumferential application of adhesive tape with gauze or wool placed between the fingers. Common pitfalls with this method include length mismatch of adjacent fingers (especially the ring and little fingers) and maceration of the skin in the web space. Off the shelf products have been developed to address these problems, such as the cotton elastic double finger bandage (Bedford splint), and strapping made of velcro or neoprene.^{1,2} Adhesive tape, because of its easy availability and simplicity of application, is still widely used in emergency departments.

This case, despite being the first to be reported, illustrates the potential serious danger of neighbour strapping. We believe that while all methods of neighbour strapping employ the same principle, adhesive tape, because of its unyielding character,

*Corresponding author. Present address: Flat 5, Doctors' Home 7, Ulster Hospital, Belfast BT16 1QR, UK.
Tel.: +44-2890-487765; fax: +44-2890-561420.

E-mail address: abidrashid@aol.com (A. Rashid).



Original article

Composites with alginate beads: A novel design of nano-adsorbents impregnation for large-scale continuous flow wastewater treatment pilots

Faissal Aziz^{a,b,*}, Mounir El Achaby^c, Amina Lissaneddine^{a,b}, Khalid Aziz^d, Naaila Ouazzani^{a,b}, Rachid Mamouni^d, Laila Mandi^{a,b}

^a Laboratory of Hydrobiology, Ecotoxicology, Sanitation & Global Changes (LHEAG, URAC 33), Semlalia Faculty of Sciences, Cadi Ayyad University, Marrakech, Morocco

^b National Centre for Research and Study on Water and Energy (CNEREE), Cadi Ayyad University, Marrakech, Morocco

^c Materials Science and Nano-engineering (MSN) Department, Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco

^d Materials, Catalysis and Valorization of Natural Resources, Faculty of Sciences, University Ibn Zohr, BP 8106, Agadir, Morocco

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ABSTRACT

The sorption capacity of cadmium (Cd (II)) on three new generated nanocomposite beads sodium alginate (SA) based; SA-Clay (SA-C) beads, SA-Phosphate (SA-P) beads, and SA- Activated Charcoal (SA-Ch) beads was investigated in a batch scale, then a continuous flow reactor.

The highest adsorption capacity (137 mg/g) was obtained for SA-Ch using 1000 mg/L of initial Cd (II). The isotherm results showed that the adsorption equilibrium is compatible with the Langmuir isotherm and the sorption capacity of SA-Nano-adsorbent beads is very high. The models used for representing kinetic data was given that the removal of Cd (II) be well-fitted by second-order reaction kinetics. For the fixed bed column treatment, the maximum breakthrough times were 30, 38, and 48 h respectively for the SA-C, SA-P, and SA-Ch.

According to the obtained results, it was concluded that SA-Nano-adsorbent bead is an excellent designed material as a nanocomposite for cadmium elimination from wastewater in a continuous treatment process.

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1. Introduction

In the last decades, many processes as ozonation, filtration by the membrane, precipitation, coagulation, reverse osmosis, and ion exchange have been applied for the elimination of pollutants from contaminated water (Zhou and Smith, 2002). However, these technologies have many disadvantages, since they often imply high costs because demand much energy and can carry on the formation of free radicals and sometimes more toxic than the initial pollutant (Wenzel et al., 2008).

By involving efficient and low-cost technology of micropollutants removal, the treated wastewater can be made available for re-use in different sectors (Aziz et al., 2013). Adsorption is an effective technique used in industry for heavy metals elimination (Aksu, 2001). It is a term commonly used for various processes comprise physical as well as chemical interactions between the solid surfaces of an adsorbent and dissolved metal ions. Adsorption allowing the treatment waters gives rise to a very rich bibliography through a very great variability of adsorbents.

The major economic constraint is often the cost of the selected material, the tested materials range from agricultural waste (Antunes et al., 2012; Bhatnagar and Sillanpää, 2010) to mineral ones (Aziz et al., 2016) for what can be considered as low-cost adsorbents. Other studies use modified materials (Avila et al., 2014) which are very expensive and therefore unusable on an industrial scale despite promising treatment yields. Recently, widen importance has been accorded on the biological materials' research as adsorbents for the elimination of pollutants, which might minimize the process price substantially and carry out the adsorption method more ecological and feasible.

* Corresponding author at: Laboratory of Hydrobiology, Ecotoxicology, Sanitation and Global Changes (LHEAG, URAC33), Faculty of Sciences Semlalia, Marrakech, Morocco.

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Original Article

IVUS

Sandra Montgomery, Bryce Renwick, **Khalid Irshad**, Raj Velu, Donald Reid*Hairmyres Hospital, East Kilbride, **Scotland**

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1. Introduction

Intravascular ultrasound (IVUS) is an invasive catheter-based technology that acquires detailed imaging of the arterial tree. It is able to determine information such as lumen and vessel diameter, anatomic information on the location of other structures, and further pathologic discrimination between different types of atherosclerotic plaque. Currently, IVUS is used widely in interventional cardiology practice and has proven use in the peripheral vascular tree.

2. Technology

The original probes had a single wire mounted mirror within a catheter, which rotated to acquire 30 frames per second. More modern probes (Fig. 1) have a phased array of 64 mirrors on a gold chip. Pulsed energy is transmitted around the probe leading to data acquisition at a rate of 30 frames per second (Fig. 2). Information is relayed to the processor unit; in a healthy artery the intima reflects as bright white, the media is dark and the adventitia is also white. An image of the probe and the vessel wall is generated (Fig. 3). ChromaFlo® (Volcano, Rancho Cordova, CA) software also has the ability to examine two adjacent frames to compare the differences and translate this into a colour representing blood flow. Generally, it colours blood flow red, and although not working on the Doppler principle, it can make some differentiation for higher rates of flow (i.e. through an area of stenosis) which is displayed as yellow.

3. Clinical utility – aneurysm and acute aortic syndromes

The IVUS has three main applications in peripheral vascular surgery: aneurysm and acute aortic syndromes, managing stent deployment, and virtual histology IVUS.

In terms of aneurysm and acute aortic syndromes, it can be used in the assessment of aneurysm morphology. It is used to examine the neck of the aneurysm for diameter, shape and plaque burden to determine if there is a healthy landing zone for endovascular stent graft placement. It also examines the iliac to assess the most suitable landing zone and to mark the position of the hypogastric arteries.

In the assessment of the patient with a dissection of the aorta, the IVUS probe can be utilised to determine whether the true or false lumen has been cannulated. Within the true lumen, the intima forms a white ring around the probe (Fig. 4). This is not visible in a false lumen (Fig. 5). It can also be used to determine the longitudinal extent of the dissection. This can be useful for planning stent graft repair.

In fenestrated endovascular aneurysm repair (FEVAR), the IVUS can be used to assess visceral arteries for disease prior to stent deployment. The authors feel this has particular importance for examining the ostia of the superior mesenteric artery (SMA) and coeliac artery.

































Fig. 6 is a recent case wherein a patient presented with ruptured abdominal aortic aneurysm (rAAA) with morphology suitable for endovascular repair but poor renal function. IVUS was used to position and deploy the graft with minimal iodinated contrast load with a favourable outcome.

4. Virtual histology IVUS

This advancement in the technology creates a colour-coded representation of the arterial disease. The intensity and frequency of the returning signal varies according to the type of tissue examined. Different histological components of the plaque produce different reflected signals and are assigned different colours: dark green represents fibrous; yellow/green represents fibrofatty; white represents calcified; and red represents necrotic lipid core plaque (Fig. 7). A map is produced which can be useful in gauging how plaque will behave at the time of treatment. The technology was initially applied in coronary artery disease in an

* Corresponding author.

E-mail address: DonaldBReid@aol.com (D. Reid).

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Hepatoprotective Effect by Methanolic Extract of *Dinothrobium tacnitorium* in Albino rats

SAFEENA SIDIQ¹, NASEEM SAUD², TALHA LAIQUE³, KASHIF BUTT⁴, AYESHA AHMAD⁵, QAISER JABEEN², MARYAM RASHID⁶*

¹Department of Pharmacology, Medical Division Islamia University, Bahawalpur-Pakistan

²Department of Pharmacology, Sharif Medical & Dental College, Lahore-Pakistan

³Department of Pharmacology, Lahore Medical & Dental College, Lahore-Pakistan

⁴Department of Pulmonology, Jinnah Hospital, Lahore-Pakistan

⁵Department of Radio-oncology, ANMOL, Lahore-Pakistan

⁶Department of Pharmacology, Akhtar Saeed Medical and Dental College, Lahore-Pakistan

Correspondence Dr. Maryam Rashid, Email: maryam.rashid107@gmail.com Tel:+92-333-4776509

ABSTRACT

Products of animal origin in traditional medicines are accountable for their healing importance. Objective: The goal was to appraise hepatoprotective effect by methanolic extract of *Dinothrobium tacnitorium* in Albino rats. Study design: It was a randomised control study. Methodology: Aqueous methanolic extract (70% v/v) of *Dinothrobium tacnitorium* (Dt.Cr) was prepared followed by succeeding evaporation using rotary evaporator. Liver toxicity was done by introduction of CCl₄ (2 ml/kg, p.o) in paraffin oil on 7th day of experiment. Administration of methanolic extract of *Dinothrobium tacnitorium* (300mg/kg body weight/day) orally protected the CCl₄ caused elevation of liver enzymes that include Aspartate aminotransferase, Alanine aminotransferase, Alkaline Phosphatase and total bilirubin. The hepatic enzymes level elevation in the CCl₄ alone treated animals. Administration of methanolic extract to CCl₄ challenge protected against the hepatic toxic agent. Conclusion: The findings thus suggested that the methanolic extract of *Dinothrobium tacnitorium* (Dt.Cr) can be used as hepatoprotective agent against CCl₄-induced hepatotoxicity in albino rats. Key words: *Dinothrobium tacnitorium*, Carbon-tetrachloride, hepatic markers and albino rats.

Keywords: dinothrobium tacnitorium, methanolic extract, hepatoprotective effect

INTRODUCTION

Among global health problems are the liver diseases. New drugs are not very efficient for its eradication. Major burden of deaths globally (46%) are due to hepatic complications as reported by World Health Organization (WHO). After cancer and heart diseases, liver diseases are the biggest cause for high mortality rate worldwide¹.

Liver is the major metabolic and excretory organ. It metabolizes carbohydrates, protein. It also does fat detoxification and regulation of body homeostasis. Poor drug habits and alcohol expose it to various liver complaints². Exposure to Aflatoxin and CCl₄ cause conditions such as Jaundice and hepatitis, accounting for highest death rate³.

Carbon tetrachloride (CCl₄) is commonly employed as hepatotoxin in animal models⁴. Silymarin, the active constituent of *Silybum marianum*, has antioxidant and hepatoprotective properties. It regains hepatic antioxidant status. Its extract is used as a herbal remedy against hepatotoxicity traditionally⁵.

In modern world, animals derived drugs play an important role as alternative treatment option globally. Among the 252 essential drugs, 8.7% constitute animal origin chemicals⁶. In Pakistan, 31 substances derived from animals constitutes 9% all traditional medicines⁷.

Dinothrobium tacnitorium has been used in many medical ailments like paralysis, malaria, urogenital disorders as remedy for centuries⁸. Its antibacterial, antifungal and gastroprotective effects have been

established years ago⁹. The current project was designed to investigate the hepatoprotective action by methanolic extract of *Dinothrobium tacnitorium* in Albino rats given CCl₄.

Study design and equipments: It was a randomised control study. Reagents used in current research included Diagnostic kits by Humans, Silymarin, Carbon Tetrachloride, distilled water, Digital electronic balance, Grinder, Vortex Mixer, Incubator, Centrifuge machine, Rotary Evaporator. All the chemicals were of analytical grade.

Table1: Group treatment schedule

Groups	Days	Day 7 th
Normal control	Distilled H ₂ O (4 ml/kg)	Distilled H ₂ O (4 ml/kg)
Intoxicated	Distilled H ₂ O (4 ml/kg)	Distilled H ₂ O (4 ml/kg) + CCl ₄ (2 ml/kg)
Rx. group 1	Dt.Cr 30 mg/kg	Dt.Cr 30 mg/kg+ CCl ₄ (2 ml/kg)
Rx. group 2	Dt.Cr 100 mg/kg	Dt.Cr 100 mg/kg+ CCl ₄ (2 ml/kg)
Rx. group 3	Dt.Cr 300 mg/kg	Dt.Cr 300 mg/kg+ CCl ₄ (2 ml/kg)
S.control	Silymarin 25 mg/kg	Silymarin 25 mg/kg + CCl ₄ (ml/kg)

Extract Preparation: One kg of Red Velvet Mites was acquired locally. The species *Dinothrobium tacnitorium* identification was done by the zoology department, IUB. A coarse paste of Red Velvet Mites was waterlogged using 70% v/v aqueous methanol. It was carried for 03 days. Crude extract was extracted from filtrate after filtration by using Rotary Evaporator. Final extract was stored till future use⁸.

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Positive Predictive Value (PPV) of Magnetic Resonance Spectroscopy (MRS) in Diagnosing Neoplastic Brain Lesions Taking Histopathology as Gold Standard

MUHAMMAD IMRAN¹, MARIA AFZAL², FOUZIA RANI³, AMMARA SAEED MALIK⁴, NOREEN RASHEED⁵

^{1,2}Diagnostic Radiologist, BVH, Bahawalpur

³Diagnostic Radiologist, Basildon Hospital, UK

⁴Diagnostic Radiologist, Basildon Hospital, UK

⁵Specialty Doctor Radiology, Basildon and Thurrock NHS University Hospital, UK

Correspondence to: Dr. Muhammad Imran, Diagnostic Radiologist, BVH, Bahawalpur

ABSTRACT

Aim: Positive predictive value of magnetic resonance spectroscopy in diagnosis of malignant brain lesions taking histopathology as gold standard.

Methodology: A total of 98 subjects with diagnosis of neoplastic brain lesion with 20-70 years of age with either sex were included. Subjects with H/o past brain surgery, claustrophobia and contraindication to MRS were excluded. All the subjects were underwent MRS for choline peak and findings were correlated with histopathology.

Results: Out of 98 patients, 61 (62.2%) were males and 37 (37.8%) were females with male to female ratio of 1.6:1. Magnetic resonance spectroscopy favors the diagnosis of malignant brain diseases in all 98 subjects. On histopathological results, there is malignant brain lesion in 93 i.e. true positive subjects and only 05 subjects i.e. false positive were without malignant lesion on histopathological examination. Positive predictive value (PPV) of magnetic resonance spectroscopy (MRS) in the diagnosis of malignant brain lesions was 94.9%.

Conclusion: Magnetic resonance spectroscopy is non-invasive procedure with high positive predictive value in the diagnosis of malignant brain lesions.

Keywords: Brain lesions, neoplastic, spectroscopy, diagnostic accuracy.

INTRODUCTION

MRS i.e., magnetic resonance spectroscopy is one of the modality to see the molecular structures of compounds. Differentiation of lesions can be done i.e. malignant and benign by certain criteria which include Choline/Cr and Choline/ NAA ratio and choline and NAA peak on MR Spectrum¹. MRS also gives information about metabolism in living brain. MRS can help in differentiating malignant from benign diseases.² MRS was done from the focal brain lesion when voxel was placed properly.³

METHODOLOGY

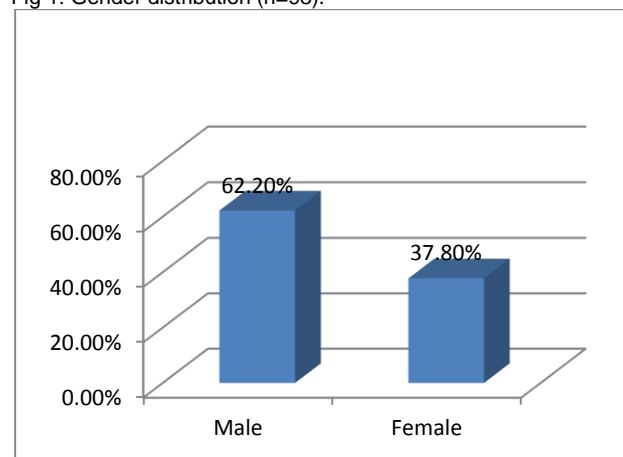
This cross-sectional study was conducted in the Radiology department, BVH, Bahawalpur from 17-5- 2013 to 16-11-2013. Ninty eight subjects were selected for the study. Percentage of positive predictive value i.e. 95% of MRS for diagnosing neoplastic brain diseases in subjects of focal brain lesions taking histopathology as gold standard is calculated. Subjects presenting with malignant brain tumors on MRS with ages of 20-70 years of either sex were included in the study. Patients with H/O past brain surgery, with H/O claustrophobia and have contraindication to MRS or pacemaker holders in the heart were excluded from this study. After approval from ethical review committee, 98 subjects were selected from emergency, OPD and admitted patients of BVH, Bahawalpur to the radiology department who fulfil the inclusion/exclusion criteria. Informed consent was taken. Magnetic resonance spectroscopy was done in each subject. Choline peak was

especially seen. Each MRS study was reported by senior radiologist. Data was analyzed statistically with SPSS version 16.0. Mean \pm SD was calculated for quantitative variables and frequency and percentage was calculated for qualitative variables e.g. gender, malignant or benign brain tumors. 2x2 contingency table was used to calculate the sensitivity, specificity, positive predictive value, negative predictive value and diagnostic accuracy of MRS to differentiate benign and malignant brain tumors using histopathology as gold standard.

RESULTS

































The detail of results is given in tables I, 2, 3, 4,

























Fig 1: Gender distribution (n=98).








































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