

## ANTIBIOTIC PROPHYLACTICS ON CURETTAGE FOR PREVENTING PELVIC INFLAMMATORY DISEASE EVENTS: IS IT NECESSARY?

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### ABSTRACT

**Objective:** This study aimed to compare pelvic inflammatory disease (PID) symptoms in curettage procedure with three antibiotic prophylaxis strategies.

**Methods:** The patients were allocated to three Groups (A, B, and C). Group A was patients receiving prophylactic antibiotics and post-curettage antibiotics, Group B received prophylactic antibiotics without post-curettage antibiotics, and Group C did not receive prophylactic antibiotics but received post-curettage antibiotics. The outcomes measured to identify the occurrence of PID symptoms included leukocytes, erythrocyte sedimentation rate, temperature, pain, vaginal discharge, and bleeding.

**Results:** This study shows that there were no significant differences in any PID symptoms between antibiotic strategies except for pain scale ( $p=0.03$ ).

**Conclusion:** The PID symptoms between the three strategies of antibiotic prophylaxis were similar.

**Keywords:** Antibiotic prophylaxis, Curettage, Obstetrics and gynecology department, Pelvic inflammatory disease.

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### INTRODUCTION

The antibiotic discovery is confined [1], but there is an abundant use of antibiotics not only occur at community [2] but also at the hospital [3,4]. The perspective database (Premier Inc, Charlotte, NC), a voluntary database that captures data from >500 acute-care hospitals from throughout the United States, was used to analyze antibiotic use in women who underwent inpatient or outpatient gynecologic surgery between 2003 and the first quarter of 2010. The database analysis result shows that antibiotics are increasingly being administered to women who underwent gynecologic surgery from 88.0% in 2003 to 90.7% in 2010 ( $p<0.001$ ). Among 491,071, who underwent operations for which antibiotics were not recommended, antibiotics were administered to 197,226 (40.2%); among 545,332 women who underwent procedures for which antibiotics were recommended, 87.1% received appropriate antibiotic prophylaxis, 2.3% received nonguideline-recommended antibiotics, and 10.6% received no prophylaxis [5].

Prophylactic antibiotics aim to prevent the incidence of surgical wound infections, reduce the incidence of post-operative morbidity and mortality, inhibit the emergence of normal resistant flora, and reduce the cost of treatment. In general, prophylactic antibiotics in the surgical procedure are not used to sterilize tissues but to suppress the presence of microorganisms until the patient's immune system can resist the microorganisms present during the surgical procedure [6,7].

The selection of antibiotics used in hospitals is based on the policy or guidelines on the use of antibiotics, diagnostic and therapeutic guidelines, as well as the hospital formulary. Therefore, each hospital has a different policy with regard to the use of antibiotics, since the principle of antibiotic selection is based on the conditions in each hospital, including the fitness of antibiotics with local bacterial sensitivity in the hospital, as well as the cost-effectiveness of the antibiotics used. The benefit of the administration of prophylactic antibiotics for curettage procedure remains unclear and controversial. Some studies suggest that antibiotic prophylaxis in curettage is ineffective while others found

that antibiotic prophylaxis in curettage is effective in reducing the occurrence of infection.

An infection that can potentially occur in curettage is a pelvic inflammatory disease (PID), an infection of the upper female reproductive system that is related to endometritis, salpingitis, and pelvic peritonitis. PID can lead to more serious reproductive disabilities, including infertility, ectopic pregnancy, and chronic pelvic pain [8-10].

Research evidence on the effectiveness of prophylactic antibiotics on curettage has been limited and controversial [6,7,9]. The justification to use antibiotic is because the curettage procedure performs transvaginally, and the patients had a risk of infection by pathogens in the lower genital tract [11]. One research which supports not giving antibiotic prophylaxis for the curettage procedure is a prospective study by Al-Ghewri *et al.* conducted at King Hussein Medical Center, in Amman, Jordan, showing that the PID incidence was 9.5% in Group I (prophylactic antibiotics were administered) and 10.14% in Group II (prophylactic antibiotics were not administered), for which this difference was not statistically significant [12]. Whereas, research which shows the benefit of antibiotic prophylaxis in curettage procedure includes a study which found a significant reduction in post-operative PID in low-risk patients, who were applying for legal first-trimester abortion and treated pre-operatively with ceftriaxone [13]. In a systematic review, the author concludes that antibiotic prophylaxis may be beneficial in the first-trimester suction curettage [14].

This research aimed to compare the incidence of PID between several regimens of antibiotic administered in patients with curettage procedure.

### METHODS

The study was conducted at a private secondary care hospital with 50 beds, PKU Muhammadiyah Hospital, Jalan K.H.M Mansyur 180–182, in Surabaya, Indonesia. From May 2015 to July 2016, there were 60 subjects who met study criteria and were classified into three groups:

(i) Group A was a group of patients who received  $1 \times 2$  g of prophylactic antibiotic cefazolin injection and  $3 \times 500$  mg of post-antibiotic amoxicillin, (ii) Group B was a group of patients who received  $1 \times 2$  g of prophylactic antibiotic cefazolin injection without post-antibiotics, and (iii) Group C was a group of patients who did not receive prophylactic antibiotics but received  $3 \times 500$  mg of post-antibiotic amoxicillin. After 5-days follow-up, PID symptoms were identified by observation of the occurrence of leukocyte  $>10,500 \text{ mm}^3$ , erythrocyte sedimentation rate (ESR)  $>15 \text{ mm/L}$ , lower abdominal pain, temperature  $>38^\circ\text{C}$ , changes in vaginal fluid characteristics including odor and consistency in vaginal discharge, and bleeding outside the menstrual cycle (irregular bleeding). The pain levels were measured with a numerical pain rating scale (NPRS). NPRS is a pain measurement in the form of a straight line scale consisting of number scores of 0–10: 1–3 is a mild pain, 4–7 is a moderate pain, and 8–10 is a severe pain. Vaginal discharge and bleeding were categorized as 1 - none, 2 - a few, and 3 - approximately twice less from number 2.

One-way ANOVA or non-parametric Kruskal-Wallis tests were used to analyze the data's distribution and significance statistically.

## RESULTS AND DISCUSSION

Curettage is the most common services done in PKU Muhammadiyah Hospital, and on average, there are 15 patients per month with various indications, either based on diagnostic indications, such as irregular menstrual bleeding, severe menstrual bleeding, and postmenopausal bleeding, or therapeutic indications, such as endometrial hyperplasia, endometrial polyps, stem submucosal myomas, residual conception products after abortion, and failed abortions. PKU Muhammadiyah Hospital does not have any antibiotic guidelines for the curettage procedure, even though antibiotics are always given to the patient. This study showed that the patients' characteristics were similar. The average age was 32 years in Group A, 30 years in Group B, and 35 years in Group C. There were several patient curettage indications (Table 1). The common curettage indication was abortion: 65% in Group A, 65% in Group B, and 70% in Group C. The rate of abortion indication in this hospital is similar to other health facilities in Indonesia. A study conducted in the year 2000 from some health facilities in six regions in Indonesia showed that approximately two million abortions were done in Indonesia, including an unknown number of spontaneous abortions, which was underestimated [15]. The annual abortion rate is 37 in every 1000 women with reproductive ages of 15–49 years. The study also reported that 760,000 (17%) of the 4.5 million annual births were unwanted or unplanned. The situation in Indonesia is high compared to other Asian countries, with 29 abortions in every 1000 women [16].

The occurrence of the PID symptoms between groups was similar, except pain (Table 2). The mean NPRS Group A was 1.5 (group A), Group B was 1.75, and Group C was 1.05 ( $p=0.03$ ). The mean NPRS between Groups A and B was 0.45, indicating a difference of 0.45 with an increasing tendency in Group A (since the value was positive). The mean NPRS between Groups A and B was -0.25, indicating a difference of 0.25 with an increasing tendency in Group B (since the value was negative). The NPRS mean difference between Groups A and B was 0.7, indicating a difference of 0.7 with an increasing tendency in Group B (since the value was positive). Unlike a study at Bengaluru [17], this study shows that there are no significant differences in any PID symptom except pain between antibiotic strategies. This result confirms a previous study which showed that there was no significant difference found between high-risk patients treated with ceftriaxone or ampicillin/pivampicillin and metronidazole [13]. In addition, a systematic review concluded that the antibiotic prophylaxis effectiveness is similar between several antibiotic regimens [18].

Although rare, it is possible to develop multivalvular, right-sided, and left-sided endocarditis [19,20] or endogenous candida endophthalmitis [21]. Consideration to give antibiotic prophylaxis is for the patient which have the endocarditis or endophthalmitis risk. In general, the antibiotic is not effective to prevent PID after curettage [22,23]. A study in 67 women, 1 month after an endometrial curettage,

**Table 1: Patient characteristics**

Characteristics	Group A (%)	Group B (%)	Group C (%)
Age (Years)			
17–22	4 (20)	8 (40)	5 (25)
23–28	10 (50)	4 (20)	7 (35)
29–34	4 (20)	5 (25)	3 (15)
35–40	1 (5)	2 (10)	3 (15)
41–46	1 (5)	1 (5)	1 (5)
47–52	0 (0)	0 (0)	1 (5)
Indication			
Abortus incomplete	13 (65)	13 (65)	14 (70)
Dead conceptus	3 (15)	1 (5)	2 (10)
Blighted ovum	3 (15)	4 (20)	2 (10)
Fluxus pervaginam	1 (5)	2 (10)	1 (5)
Mola hidatidosa	0 (0)	0 (0)	1 (5)
Polip endocervix			
Menometrorrhagia			
Leukocyte $>10,500 \text{ mm}^3$	1	2	0
Erythrocyte sedimentation rate $>15 \text{ mm/l}$	5	10	14
Abdominal pain (NPRS 1–10)			
1–3	19 (95)	20 (100)	18 (90)
4–7	1 (5)	0 (0)	2 (10)
8–10	0 (0)	0 (0)	0 (0)
Temperature $>38^\circ\text{C}$	0	0	0
Vaginal discharge			
1	19 (95)	20 (100)	17 (85)
2	1 (5)	0 (0)	3 (15)
3	0 (0)	0 (0)	0 (0)
Bleeding			
1	4 (20)	5 (25)	7 (35)
2	11 (55)	9 (45)	11 (55)
3	5 (25)	6 (30)	2 (10)

**Table 2: Pelvic inflammatory disease symptoms after 5-day follow-up**

Characteristics	Group A (%)	Group B (%)	Group C (%)
Leukocyte $>10,500 \text{ mm}^3$	2 (10)	0 (0)	0 (0)
Erythrocyte sedimentation rate $>15 \text{ mm/l}$	7 (35)	11 (55)	14 (70)
Abdominal pain (NPRS 1–10)			
1–3	12 (60)	9 (45)	19 (95)
4–7	6 (30)	7 (35)	1 (5)
8–10	2 (10)	4 (20)	0 (0)
Temperature $>38^\circ\text{C}$	0 (0)	0 (0)	0 (0)
Vaginal discharge			
1	20 (100)	17 (85)	19 (95)
2	0 (0)	3 (15)	1 (5)
3		0 (0)	0 (0)
Bleeding			
1	13 (65)	4 (20)	9 (45)
2	7 (35)	10 (80)	9 (45)
3	0 (0)	0 (0)	2 (10)

PID occurs in four women from intervention group who received doxycycline 200 mg daily for 1 week after the procedure and three women from the control group who did not receive any antibiotic regimen ( $p>0.05$ ) [24]. Another study with 84 women with uterine curettage showed that only two cases of endometritis were found in the group who were given 0.1 ml of Vitamin B complex intravenously 20 minutes before curettage but none in the group who 1 g of cefoxitin intravenously 20 minutes before curettage ( $p=0.241$ ) [25].

## CONCLUSION

There was no significant difference except pain in the occurrence of PID's symptoms after curettage procedure and there was no difference in improvement of symptoms between the three strategies of antibiotic prophylaxis, pre- and post-curettage procedure.

## AUTHORS' CONTRIBUTIONS

All authors contributed equally. All authors read and approved the final manuscript.

## CONFLICTS OF INTEREST

All authors have none to declare.

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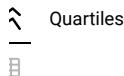
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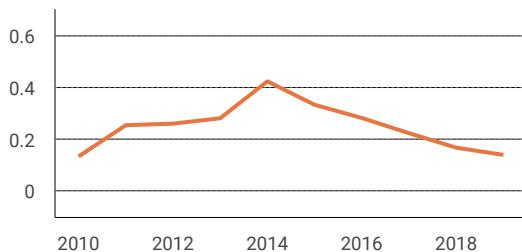
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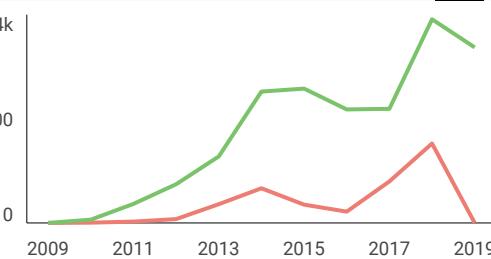
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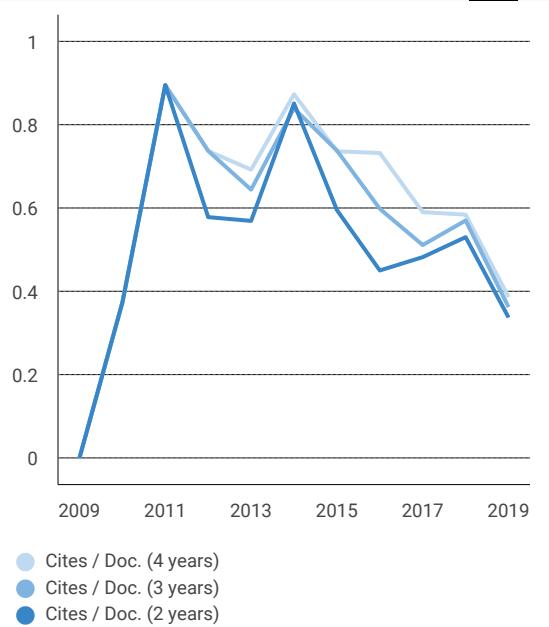
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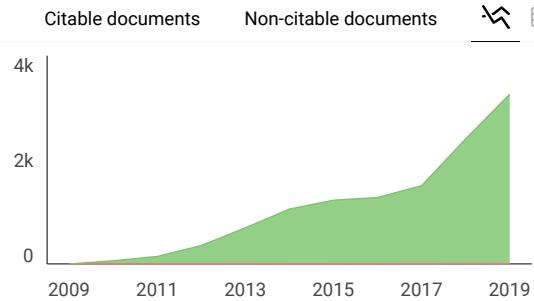
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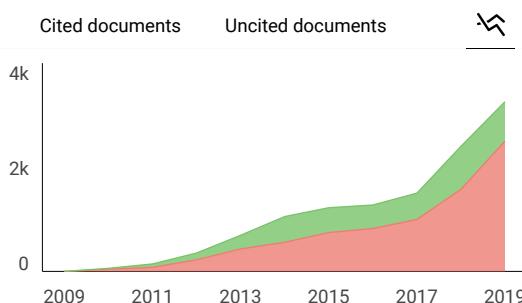
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## Table of Contents

### Case Study(s)

COMBINED USE OF VIDEO LARYNGOSCOPY AND FIBEROPTIC FOR AIRWAY MANAGEMENT IN A PATIENT WITH FIXED CERVICAL SPINE  
Nupur Moda, Niraj Kumar  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27199  
Pages: 1-3 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

COMPLICATED URINARY TRACT INFECTION WITH EXTENSIVE DRUG RESISTANT KLEBSIELLA PNEUMONIAE TREATED WITH COMBINATORIAL THERAPY OF CSE-1034 ALONG WITH CARBAPENEMS: A CASE REPORT AND THE REVIEW OF LITERATURE  
Sanjith Saseedharan  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.28782  
Pages: 4-7 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

MIXED NON-ALBICANS CANDIDA FUNGEMIA: AN UNCOMMON BUT EASILY OVERLOOKED CLINICAL ENTITY  
Chuan Hun Ding, Zaili Zaki  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.28612  
Pages: 8-10 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

SEVERE GASTROINTESTINAL MANIFESTATIONS COMPLICATING HENOCH-SCHÖNLEIN PURPURA IN ADULT: A RARE CASE IN INDONESIA  
William Ray Cassidy, Ketut Suryana, Dewi Catur Wulandari  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.28911  
Pages: 11-15 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

### Review Article(s)

NATURAL BIOMATERIALS FOR SKIN TISSUE ENGINEERING: REPAIR AND REGENERATION - A SHORT REVIEW  
Gowrisankar L, Ganesh Murali J, Usha P  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.28343  
Pages: 16-20 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

STUDY OF PREECLAMPSIA IN PLACENTA, KIDNEY, AND HEPATIC DISEASES  
Putri Cahaya Situmorang, Syafruddin Ilyas  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27540  
Pages: 21-28 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

A REVIEW ON IN VIVO AND IN VITRO EXPERIMENTAL MODELS TO INVESTIGATE THE ANTI-INFLAMMATORY ACTIVITY OF HERBAL EXTRACTS  
Inayat Kabir, Imtiaz Ansari  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.26873  
Pages: 29-35 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

HERBAL CONTRACEPTIVES: EVALUATION OF ANTIFERTILITY POTENTIAL OF HIBISCUS ROSA-SINENSIS (LINN.)  
Shikha Baghel Chauhan, Tanveer Naved  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.20531  
Pages: 36-41 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

PHYTIC ACID (MYO-INOSITOL HEXAPHOSPHATE)-A PROMISING PHARMACEUTICAL AGENT: A REVIEW  
Radhakrishnan Narayanaswamy, Norhaizan Mohd Essa  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27843  
Pages: 42-46 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

MANAGEMENT OF RHEUMATOID ARTHRITIS: SPECIAL CONSIDERATION FOR BIOLOGIC DISEASE-MODIFYING ANTI-RHEUMATIC DRUGS  
Salmi Abdul Razak, Mohd Makmor-bakry, Adyani Md Redzuan  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27953  
Pages: 47-53 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

DIABETIC RETINOPATHY: AN INCLUSIVE REVIEW ON CURRENT TREATMENT AND MANAGEMENT APPROACHES  
Jyothi S L, Vishal Gupta N  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.26949  
Pages: 54-61 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

RECENT ADVANCES IN HYDROGELS FOR BIOMEDICAL APPLICATIONS  
Surojeet Das, Vivek Kumar, Rini Twari, Leena Singh, Sachidanand Singh  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27921  
Pages: 62-68 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

LANNEA ACIDA: A REVIEW OF ITS MEDICINAL USES AND PHYTOCHEMISTRY AND PHARMACOLOGICAL PROPERTIES  
Alfred Maroyi  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.28813  
Pages: 69-74 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

HETEROMORPHA ARBORESCENS: A REVIEW OF ITS BOTANY, MEDICINAL USES, AND PHARMACOLOGICAL PROPERTIES  
Alfred Maroyi  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.29108  
Pages: 75-82 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

ALLERGIC MANIFESTATIONS OF PRIMARY IMMUNODEFICIENCY DISEASES AND ITS TREATMENT APPROACHES  
Oksana Boyarchuk  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.29059  
Pages: 83-90 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

DURANTA REPENS LINN. (VERBENACEAE): A COMPREHENSIVE REVIEW OF PHARMACOGNOSTIC, ETHNOMEDICINAL, PHARMACOLOGICAL, AND PHYTOCHEMICAL ASPECTS  
Abhijeet V Puri  
Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.28509  
Pages: 91-96 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

## Original Article(s)

COMPARISON BETWEEN MODIFIED OSWESTRY LOW BACK PAIN DISABILITY QUESTIONNAIRE AND ABERDEEN LOW BACK PAIN SCALE TAKING LOW BACK-SPECIFIC VERSION OF THE SF-36 PHYSICAL FUNCTIONING SCALE AS A GOLD STANDARD IN PATIENTS WITH LOW BACK PAIN

Dheeraj Lamba, Ritambhara K Upadhyay

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27909

Pages: 97-99 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

PREVALENCE OF OBSTRUCTIVE SLEEP APNEA IN AN INDIAN POPULATION: USING STOPBANG QUESTIONNAIRE

Srinigara Pattanakal, Rajagopal R, Neeta Mohanty, Swati Pattanakal

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27598

Pages: 100-103 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

NASAL COLONIZATION OF METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS AMONG CLINICAL POSTGRADUATES IN A COASTAL KARNATAKA MEDICAL COLLEGE - PREVALENCE AND ANTIBIOTIC PATTERN

Isha Juneja, Ashwini Hegde, Pooja Rao, Radhakrishna M

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27713

Pages: 104-109 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

CLINICAL FEATURES AND ANTIMICROBIAL SUSCEPTIBILITIES OF ELIZABETHKINGIA MENINGOSEPTICA - AN EMERGING PATHOGEN FROM A TERTIARY CARE HOSPITAL IN MANGALORE

Varun Venkatesh, Ashwini Hegde, Radhakrishna M

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27755

Pages: 110-113 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

MOLECULAR DOCKING ANALYSIS OF THIRTEEN COMPOUNDS AS MODULATOR OF IONOTROPIC GLUTAMATE RECEPTOR

Radhakrishnan Narayanaswamy, Merry Hailu

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27602

Pages: 114-117 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

ANALYTICAL METHOD DEVELOPMENT AND VALIDATION OF ATOMOXETINE HYDROCHLORIDE USING RAPID HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC TECHNIQUE

Zubaidur Rahman, Vijey Anandhi M, Sumithra M

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27204

Pages: 118-120 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

PREVALENCE AND SEVERITY OF POSSIBLE DRUG-DRUG INTERACTIONS AMONG THE GERIATRIC PATIENTS AT AN INDIAN TERTIARY CARE TEACHING HOSPITAL

Ramam Sripada, Suresh Kumar Sv, Devanna N, Kadula Ravindra Reddy

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27775

Pages: 121-123 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

EVALUATION OF USE OF ANALGESICS IN PAIN MANAGEMENT AMONG SURGEONS IN A TERTIARY CARE HOSPITAL

Jayashree Dawane, Kalyani Khade, Yamini Ingole, Vijaya Pandit

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27489

Pages: 124-128 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

EVALUATION OF ANTFUNGAL POTENTIAL OF ALLIUM AMPELOPRASUM AGAINST FUNGAL PHYTOPATHOGENS

Shahid Khan, Amandeep Kaur, Neeta Raj Sharma

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27483

Pages: 129-133 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

NONANTIBIOTICS ENHANCE THE ANTIBACTERIAL ACTIVITY OF CEFTRIAXONE AGAINST METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS

Akilanadeswari Krishnan, Ruksmani Kandasamy

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.21535

Pages: 134-138 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

A COST OF ILLNESS STUDY OF TYPE 2 DIABETES MELLITUS IN MANGALORE, KARNATAKA, INDIA

Usha Adiga, Sachidananda Adiga

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27558

Pages: 139-145 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

VARIATION IN THE SIZE OF ABDOMINAL AORTA MEASURED ON COMPUTED TOMOGRAPHY

Dolly Sharma, Visakha T

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27553

Pages: 146-148 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

ANALYTICAL METHOD DEVELOPMENT FOR THE ESTIMATION OF DARUNAVIR BY DIAZOTIZATION AND COUPLING BY VISIBLE SPECTROPHOTOMETRY

Vijayalakshmi R, Anjani D, Sriramamurthy M, Dhanaraju M D

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27830

Pages: 149-152 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

EVALUATION OF FREE RADICAL SCAVENGING ACTIVITY OF MIMOSA PUDICA THORNS

Lakshimbai R, Amirtham D

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27426

Pages: 153-156 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

DESIGN AND CHARACTERIZATION OF MICROEMULSION GEL FOR TRANSDERMAL DRUG DELIVERY SYSTEM OF DULOXETINE HYDROCHLORIDE

Karishma Tolani, Ganesh Deshmukh

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27552

Pages: 157-161 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

EVALUATION OF NEUROPHARMACOLOGICAL ACTIVITY OF MEDICINAL PLANT

Saniya Feroz Pathan, Imtiaz Ansari

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27505

Pages: 162-168 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

ANTIOXIDANT ACTIVITY OF CONJUGATED LINOLEIC ACID

Lalithadevi B, Muthiah Na, Satya Narayana Murty K

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpcr.2018.v11i11.27700

Pages: 169-173 | Share [f](#) [t](#) [in](#) [R6](#) [P](#)

SERUM HOMOCYSTEINE AS A RISK FACTOR FOR STROKE: A PROSPECTIVE STUDY FROM A RURAL TERTIARY CARE CENTRE

Nitin Gupta, Sandeep Joshi, Udit Narang, Rosy Bala Gupta, Ruby Sharma, Aseem Singla

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27595

Pages: 174-177 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

BIOLOGICAL ACTIVITIES OF ALTERNARIA SP. RL4 – A POTENT ENDOPHYTIC FUNGUS ASSOCIATED WITH RAUVOLFIA SERPENTINA L. BENTH.

Ranjan Ghosh, Soma Barman, Pavan Kumar Jgs, Narayan C Mandal

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Pages: 178-182 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

MORTALITY PREVENTION IN SEPTIC MICE WITH MULTIPLE ORGAN DYSFUNCTION SYNDROME: THE OPTIMAL DOSE OF INTRAPERITONEAL HEAT SHOCK PROTEIN 70

Igl Sukamto, Bambang Purwanto, Ambar Mudigdo, Suroto Suroto, Bhisma Murti, Ika Yuli Ayuningrum

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.27773

Pages: 183-185 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

EFFECT OF RUTIN AGAINST HIGH-FAT DIET AND ALCOHOL-INDUCED ALTERATIONS IN HEMATOLOGICAL VARIABLES OF RATS

Hemeshwer Kumar Chandra, Gita Mishra, Nisha Sahu, Satendra Kumar Nirala, Monika Bhaduria

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Pages: 186-189 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

FORMULATION AND EVALUATION OF LIDOCAINA HYDROCHLORIDE CHEWABLE TABLET

Harshada Anil Kasar, Ashish Dev, Subhakanta Dhal

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Pages: 190-194 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

EFFICACY OF ORMELOXIFENE IN MANAGEMENT OF DYSFUNCTIONAL UTERINE BLEEDING

Umesh Sawarkar, Sarang Deshmukh, Ashwini Raut, Uma Bhowale, Ashok Shenoy

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Pages: 195-197 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

A PRECEDE–PROCEED MODEL ON THE DETERMINANTS OF ADHERENCE TO HIV TREATMENT: A PATH ANALYSIS EVIDENCE FROM INDONESIA

Dyah Ayu Agustin, Bhisma Murti

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Pages: 198-203 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

ESTIMATION OF GUUGULSTERONE-Z IN GOKSHURADI GUGGULU USING REVERSED-PHASE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY

Kanan G Gamit, Niraj Y Vyas, Nishit D Patel, Manan A Raval

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.26894

Pages: 204-208 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

ECUADORIAN QUINOA (CHENOPodium QUINOA WILLD) FATTY ACIDS PROFILE

Altuna Jl, Silva M, Alvarez M, Quinteros Mf, Morales D, Carrillo W

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.24689

Pages: 209-211 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

HEAVY METAL-INDUCED INHIBITION OF ENZYMATIC ACTIVITY IN HEN EGG WHITE LYSOZYME

Michel Pazmido, Silva Monica, Welbaum James, Gaibor Juan, Altuna Jose Luis, Carrillo Wilman

Abstract || View PDF || Download PDF || DOI: 10.22159/ajpor.2018.v11i11.22892

Pages: 212-217 | Share [f](#) [t](#) [in](#) [RG](#) [P](#)

YELLOW PITAYA (HYLOCEREUS MEGALANTHUS) FATTY ACIDS COMPOSITION FROM ECUADORIAN AMAZONIA

Altuna Jl, Silva M, Alvarez M, Quinteros Mf, Morales D, Wilman Carrillo

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Manish Kumar Pal, Ganesh Deshmukh

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Koteswari M, Mudiganti Ram Krishna Rao, Prabhu K, Siva Kumar, Sampad Shil

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Jafra Bano, Swapna Santra, Ekta Menghani

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FIRST REPORT ON FIBRINOLYTIC AND THROMBOLYTIC ACTIVITY OF EUTYPHOEUS GAMMIEI AN EARTHWORM SPECIES COLLECTED FROM TRIPURA, NORTHEAST INDIA

Madhusudan Debnath, Sumitra Saha, Samir Kumar Sil

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ANTICANCER, CYTOTOXIC EFFECT OF TAMARIX APHYLLA, AND ANTIBACTERIAL SCREENING EFFICIENCY AGAINST MULTIDRUG-RESISTANT HUMAN PATHOGENS

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EFFECT OF CULTURAL CONDITION ON EVALUATION OF HEPATOPROTECTIVE ACTIVITY OF METHANOLIC BARK EXTRACT OF ANOGEISSUS LATIFOLIA ON ETHANOL-INDUCED HEPATOTOXICITY

Prateek Bisht, Chandrashekhar S, Kunal Das, Sourav Tribedi

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AMELIORATIVE EFFECT OF NARINGENIN AGAINST ANTITUBERCULOSIS DRUGS INDUCED ALTERATIONS IN HEMATOLOGICAL PARAMETERS OF RATS

Nisha Sahu, Gita Mishra, Hemeshwer Kumar Chandra, Satendra Kumar Nirala, Monika Bhaduria

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THE USE OF CLINOPTILOLITES AS CARRIER OF METFORMIN HYDROCHLORIDE IN DRUG DELIVERY SYSTEM: IN VITRO DRUG RELEASE STUDY

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STUDIES ON HEPATOPROTECTIVE AND ANTI-INFLAMMATORY ACTIVITY OF COIX LACRYMA-JOBI (LINN)

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EVALUATION OF BIOACTIVITY OF JAGGERY PREPARED USING PLANT MUCILAGE AS CLARIFICANT

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EFFECT OF SILYMARIN ON INTESTINAL ALKALINE PHOSPHATASE LEVEL IN A RAT MODEL OF TYPE 2 DIABETES MELLITUS: STREPTOZOTOCIN AND HIGH-FAT DIET TREATED WISTAR RATS

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DEVELOPMENT AND VALIDATION OF A NOVEL METHOD FOR QUALITY ASSESSMENT USING SUSPECTED ADVERSE DRUG REACTIONS TO ANGIOTENSIN-CONVERTING ENZYME INHIBITORS

Ravi Goyal, Rupinder Kaur Sodhi, Anuj Gupta  
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Mrinalini C Damle, Shivani K Jadhav  
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ANTIFERTILITY ACTIVITY AND CONTRACEPTIVE POTENTIAL OF THE HYDROALCOHOLIC RHIZOME EXTRACT OF TRILLIUM GOVANIANUM IN FEMALE WISTAR RATS

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THE EXTRACT SOYBEAN OF LOCAL VARIETIES AS REDUCE ADVANCED GLYCATION END PRODUCTS AND HEMOGLOBIN A1C IN TYPE 2 DIABETES MICE

Juliana Christyaningsih, Taufiqurrahman Taufiqurrahman, Sujono Sujono

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SARGASSUM POLYCYSTUM METHANOL EXTRACT AFFECTS THE NUCLEAR FACTOR-K BETA AND INTERLEUKIN-6 EXPRESSION IN STREPTOZOTOCIN-INDUCED DIABETES RATS

Muhamad Firdaus, Anies Chamidah

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AN OBSERVATIONAL STUDY OF MEDICATION ERRORS AMONG PSYCHIATRIC PATIENTS IN A TERTIARY CARE HOSPITAL

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THE ROLE OF SURVIVIN AND RAF-1 KINASE AGAINST ENHANCEMENT OF PANCREATIC BETA-CELL APOPTOSIS IN PATIENTS WITH TYPE 2 DIABETES MELLITUS

Eva Decrolli, Asman Manaf, Syafril Syahbuddin, Sanwono Waspadji, Dwisari Dillasamola

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A COST-EFFECTIVE ANALYSIS OF TIOTROPIUM WITH FORMOTEROL AND BUDESONIDE WITH FORMOTEROL BASED ON EFFICACY AND QUALITY OF LIFE IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE PATIENTS

Kameswari Garrepudi, Ivturi Shrawanthi, Keerthana Sivakumar, Maithili Sharma M, Kurukula Manasa

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HYPOGLYCEMIC AND HYPOLIPIDEMIC EFFECTS OF ETHANOL ROOT EXTRACT OF CLERODENDRUM PHLOMIDIS IN ALLOXAN-INDUCED DIABETIC RATS

Mrunal Dinesh Shanbhag, Gowri Radhakrishnan

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SYNTHESIS, SPECTRAL, AND PHARMACOLOGICAL EVALUATION OF 3 AND 5 SUBSTITUTED 2,4-THIAZOLIDINEDIONE DERIVATIVES

Navjot Singh Sethi, Dn Prasad, Deepak Bhagwat, Anuradha Kumari, Madhu Sharma, Sangeeta Kaundal

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PROTECTIVE EFFECT OF KADUKKAI MAATHIRAI (TERMINALIA CHEBULA-BASED POLYHERBAL SIDDHA FORMULATION) IN ETHANOL-INDUCED LIVER DISEASE IN RATS

Manjunath Shetty, Smita Shenoy, Vasudha Devi, Nitesh Kumar, Arul Amuthan, Ganesh Shenoy K, Pavithra P

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PHYTOCHEMICAL SCREENING, ANTIOXIDANT ACTIVITY AND EXTRACTION OF ACTIVE COMPOUND (ANONAIN) FROM FRUIT PEEL EXTRACT OF ANNONA RETICULATA L.

Sumathi Ethiraj, Vandana Sridar

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Ravi Kumar V, Sailaja Rao P

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EVALUATION OF SUBCHRONIC TOXICITY OF LACTOBACILLUS PARACASEI HII03 FERMENTED MORINDA CITRIFOLIA (NONI) FRUIT JUICE

Chaiyavat Chaiyasut, Bhagavathi Sundaram Sivamaruthi, Yodsawee Duangjitcharoen, Periyanaiva Kesika, Sasithorn Sirilun, Khontaros Chaiyasut, Sartjan Peerajan

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ASSOCIATION OF ANTI-CYCCLIC CITRULLINATED PEPTIDE ANTIBODY IN A SAMPLE OF ADULT PATIENTS WITH PSORIASIS AND PSORIATIC ARTHROPATHY

Khudair Al-bedri, Zainab A Mahmood, Aqeel Hussein Sadeq

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INFLUENCE OF PIRDOT LEAF (SAURAUJA VULCANI, KORTH.) EXTRACT ON THE BLOOD GLUCOSE RATE AND HISTOLOGIC DESCRIPTION OF THE RETINA OF MALE MICE (MUS MUSCULUS STRAIN DDW)

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ANTI-INFLAMMATORY ACTIVITY OF METHANOLIC EXTRACT OF HIBISCUS PLANTIFOLIUS

Sowjanya K, Swati S, Supriyanka K, Rajiya Sk, Meena B, Poojitha P

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INVESTIGATING THE EFFECT OF DIFFERENT GRADES AND CONCENTRATIONS OF PH-SENSITIVE POLYMER ON PREPARATION AND CHARACTERIZATION OF LIDOCAINE HYDROCHLORIDE AS IN SITU GEL Buccal SPRAY

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Ida Christi Ve, Uma Poorni T, NagarajaPerumal G, Mohan S

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BIOASSAY-GUIDED ISOLATION OF THE MAJOR COMPOUND WITH ANTIOXIDANT ACTIVITY FROM THE ALGERIAN MEDICINAL PLANT BUBONIUM GRAVEOLENS

Rajda Messaoudi, Abdellrim Cheriti, Younes Bourmita

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Embung Suci Nasution, Rasmadin Muchtar

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HYDROGEN PEROXIDE LEVELS CORRELATE WITH SUPEROXIDE DISMUTASE IN IRAQI WOMEN WITH PREGNANCY-INDUCED HYPERTENSION

Saja Muhand Bayram, Lina A Salih, Samia A Eltawe

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ANTIINFERTILITY EFFECTS TEST OF DATE PALM FRUIT EXTRACT (PHOENIX DACTYLIFERA L.) IN FEMALE MICE (MUS MUSCULUS) COMPARED WITH PROPOLIS

Dwisiari Dillasamola, Almahdy A, Ria Angraini, Skunda Dilarosta, Biomechya Oktomali P, Noverial Noverial

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FORMULATION AND EVALUATION OF LIQUID ORAL SUSPENSION OF PARACETAMOL USING NEWLY ISOLATED AND CHARACTERIZED HYGROPHILA SPINOSA SEED MUCILAGE AS SUSPENDING AGENT

Anjali Krishna, Shan Mohanan

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Mohammad Rizki Fadhl Pratama, Suratno S, Evi Mulyani

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Konstantin G Gurevich, Aleksandr L Urakov, Lina I Bashirova, Aleksandr V Samorodov, Peter P Purygin, Vladimir A Yermokhin, Alfiya S Gilmutdinova, Natalia A Bondareva

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ELECTROLYTE DISTURBANCE IN HEMORRHAGIC AND NON-HEMORRHAGIC STROKE PATIENTS IN AL-DIWANIYAH TEACHING HOSPITAL

Aqeel Raheem Hassan, Zahraa Adel Aryan

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DESCRIPTION OF TESTIS HISTOLOGY OF MUS MUSCULUS AFTER GIVING NANO HERBAL RHODOMYRTUS TOMENTOSA (HARAMONTING)

Putri Cahaya Situmorang, Syafruddin Ilyas

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EVALUATION OF OSTEOPATHY IN PATIENTS WITH BETA-THALASSEMIA MAJOR USING DIFFERENT IRON CHELATION THERAPIES

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NORMAL FASTING BLOOD SUGAR LEVELS AND MEDICATION ADHERENCE IMPROVE THE QUALITY OF LIFE OF TYPE 2 DIABETES MELLITUS PATIENTS IN PRIMARY HEALTH FACILITIES

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THE EFFICACY OF 200 MG/KGBW/IP HEAT SHOCK PROTEIN-70 IN REDUCTION OF CYT C, BAX, AND CASPASE 3 EXPRESSION, AND MORTALITY IN MICE MODEL WITH MULTIPLE ORGAN DYSFUNCTION SYNDROME

Igi Sukamto, Suroto Suroto, Ambar Mudigdo, Bambang Purwanto

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Hwee-soo Jeong

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SYNTHESIS, CHARACTERIZATION, ANTIOXIDANT AND ANTICANCER HUMAN STUDIES OF NEW METAL ION COMPLEXES OF POLY SCHIFF BASE DERIVED FROM 4-AMINOACETOPHENONE WITH SALICYLALDEHYDE AND 4-BROMOANILINE

Tamara Q.m Al-sahlanee, Mohammed Ha Al-amery, Mohammed Ha Al-amery

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