

# MMHS

## Society of Medical, Medicine and Health Sciences

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Bali, Indonesia

# 2020



# CONFERENCE PROCEEDINGS

  

## BOOK OF ABSTRACTS MMHS-2020

International Conference on  
“Medical, Medicine & Health Sciences”  
(MMHS-2020), Bali, Indonesia



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# **Book of Abstracts Proceeding**

International Conference on  
“Medical, Medicine & Health Sciences”  
(MMHS-2020)  
**Bali, Indonesia**

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**International Conference on  
“Medical, Medicine & Health Sciences”  
Bali, Indonesia  
Venue: Hotel Santika Seminyak Bali, Indonesia**

**ORGANIZING COMMITTEE**

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## CONFERENCE CHAIR MESSAGE

**Dr. Malika Ait Nasser**

International Conference on “Medical, Medicine & Health Sciences” serves as platform that aims to help the scholarly community across nations to explore the critical role of multidisciplinary innovations for sustainability and growth of human societies. This conference provides opportunity to the academicians, practitioners, scientists, and scholars from across various disciplines to discuss avenues for interdisciplinary innovations and identify effective ways to address the challenges faced by our societies globally. The research ideas and studies that we received for this conference are very promising, unique, and impactful. I believe these studies have the potential to address key challenges in various sub-domains of social sciences and applied sciences.

I am really thankful to our honorable scientific and review committee for spending much of their time in reviewing the papers for this event. I am also thankful to all the participants for being here with us to create an environment of knowledge sharing and learning. We the scholars of this world belong to the elite educated class of this society and we owe a lot to return back to this society. Let's break all the discriminating barriers and get free from all minor affiliations. Let's contribute even a little or single step for betterment of society and welfare of humanity to bring prosperity, peace and harmony in this world. Stay blessed.

Thank you.

**Dr. Malika Ait Nasser**

Conference Chair

Email: [chair@academicfora.com](mailto:chair@academicfora.com)

MMHS-2020

## Conference Schedule

***Mar 27-28, 2020***

**Hotel Santika Seminyak Bali, Indonesia**

**Time: Registration & Kit Distribution (09:00– 09:10 am)**

**Venue: Room 1**

09:10 am – 09: 20 am	Introduction of Participants
09: 20 am – 09: 30 am	Inauguration and Opening address
09: 30 am – 09:40 am	Networking Session

**Tea/Coffee Break (09:40 am - 10:00 am)**





**DAY 01 (Mar 27, 2020)**

**1<sup>st</sup> Presentation Session (10:00 am – 12:30 pm)**

***Track A: Medical, Medicine and Health Sciences***

<b>Presenter Name</b>	<b>Manuscript Title</b>	<b>Paper ID</b>
Rudiyo Rudiyo	Combination Of Whole Brain Radiotherapy With Different Fraction And Concomitant Capecitabine In Brain Metastasis Breast Cancer	BAL-4320-106M
San Winata Badiri	The Effect of Putat Air Kernel's (Barringtonia racemosa) on the Quality of Sperm in Rat (Rattus norvegicus) that had been exposed to Cigarette Smoke	BAL-4320-105M
M. Ifani Syarkawi Rizal	Comparison of Platelet Rich Plasma Administration with Platelet Low Plasma for Healing Incision Wounds in Cruris of Rattus norvegicus Rats Viewed from Histology of Collagen Tissues	BAL-4320-104M
Indra Wijaya Putra	The Influence Of Metronidazole, Heparin And Dexametason Combination On The Degree Of Post Laparotomy Intraperitoneum Adhesion On White Rats (Rattus Norvegicus)	BAL-4320-102M
Moch. Iskandar Islam1	Effects Of Topical Insulin Cream Administration Against The Epithelialization Rate And Thickness Of Skin Loss Wound Healing Process In Trial Animal Models <i>Rattus Novergicus</i> Rats.	BAL-4320-103M

**Lunch Time & Ending Note (12:30 pm - 01:30 pm)**

## ***Participants Registered as Listener\Observer***

The following Scholars/ practitioners who don't have any paper presentation, however they will be attending the conference as delegates & observers.

<i><b>Sr. No</b></i>	<i><b>Name</b></i>	<i><b>Affiliation Details</b></i>	<i><b>Country</b></i>	<i><b>Submission ID</b></i>
<b>1.</b>	Cristina Periverzof	France, 83190 Ollioules, 212 chemin des delphiniums.	France	BAL-4320-107MA

	<b>DAY 02 Saturday (March 28, 2020)</b>	
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## **City Tour and Shopping Day**

All respective guests are free to conduct their own sightseeing and tour. The second day of the event is reserved for this memorable purpose.



**TRCAK A: MEDICAL, MEDICINE & HEALTH  
SCIENCES**

# Combination Of Whole Brain Radiotherapy With Different Fraction And Concomitant Capecitabine In Brain Metastasis Breast Cancer

Rudiyo Rudiyo<sup>1\*</sup>, Iskandar Japardi<sup>2</sup>, Aznan Lelo<sup>3</sup>, Susworo<sup>4</sup>

**Abstract** Introduction: Breast cancer is the second most frequent cancer worldwide. The main therapeutic modality for breast cancer with brain metastasis is radiation. Whole Brain Radiotherapy (WBRT) is a regional treatment that provides moderate doses of radiotherapy to all brain tissue. Capecitabine was found to be effective for the treatment of breast cancer with metastasis. Objective: This study aims to determine the effectiveness of WBRT on the response of breast cancer brain metastatic lesions combined with capecitabine administration. Materials and methods: This study uses a prospective, randomized-blind cohort analytic study approach. Subjects were randomized into two groups by giving different fraction of WBRT and capecitabine. Subjects were evaluated 4 weeks post radiation. Data on differences in patient responses in the two treatment groups were analyzed. Results: A total of 22 breast cancer patients with brain metastasis participated in this study. Group I (WBRT 10x3Gy + capecitabine 850-1000 mg / m<sup>2</sup>) obtained results of 5 (45.5%) out of 11 are responding to therapy. Whereas in group II (WBRT 20x2Gy + capecitabine 850-1000 mg / m<sup>2</sup>) found 11 (100%) out of 11 patients responded to therapy. The results of statistical analysis showed that there were significant differences between the two groups with a value of P = 0.012. Conclusions: Giving capecitabine and WBRT with 20x2 Gy gives a better response both clinically and statistically

**Keywords:** WBRT, Capecitabine, Breast cancer. Brain metastases

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<sup>2</sup>Departmen<sup>t</sup> of Neurosurgery of Siloam General Hospital, <sup>3</sup>Department of Pharmacology and Therapy of University of North Sumatra, <sup>4</sup>Department of Radiotherapy of Cipto Mangunkusumo National Central General Hospital, Indonesia

# The Effect of Putat Air Kernel's (*Barringtonia racemosa*) on the Quality of Sperm in Rat (*Rattus norvergicus*) that had been exposed to Cigarette Smoke

San Winata Badiri<sup>1\*</sup>, Dahril<sup>2</sup>, Dasrul<sup>3</sup>

**Abstract** Introduction Cigarette smoke causes oxidative stress which result in reduces sperm concentration, motility, viability, and morphology. Putat air (*Barringtonia racemosa*) is a medicine plant belonging to the Lecythidaceae family. Extract of *Barringtonia Racemosa* kernel's contained anti-oxidant terpenoids, flavonoids, saponins, tannins and polyphenols. The aim of this study was to determine the effect of extract *Barringtonia Racemosa* kernel's on sperm quality of cigarette smoke exposed rats. Methodology This study used a post test only control group design among 30 male Wistar rats subject. The subject was randomly divided into 5 groups, K1: negative control, K2: cigarettes smoke exposed as positive control, P1: cigarettes smoke exposed and given 100 mg/gBW B. *Racemosa* extract peroral, P2: cigarettes smoke exposed and given 150 mg/gBW B. *Racemosa* extract peroral, and P3: cigarettes smoke exposed and given 200 mg/gBW B. *Racemosa* extract peroral. Analysis was done on day 30 using one-way ANOVA and post-hoc LSD for sperm concentration, motility, viability, and morphology. Result The highest sperm concentration was found in P2 (P1 40,60 million/mL, P2 59,80 million/mL, P3 50,80 million/mL; the highest normal sperm motility was found in P2 (P1 42,00 %, P2 61,80 %, P3 50,60 %); the highest normal sperm viability was found in P2 (P1 42,60 %, P2 61,00 %, P3 53,20 %); the highest normal sperm morphology was found in P1 (P1 41,20 %, P2 28,60, P3 37,60) Discussion & Conclusion Extract of *Barringtonia Racemosa* kernel's can improve sperm concentration, motility, viability, and morphology of cigarette smoke expose rats.

**Keywords:** Sperm Quality, *Barringtonia Racemosa*, Antioxidant Activities

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<sup>1,2,3</sup> Medical Faculty Syiah Kuala University Banda Aceh, Indonesia

# Comparison of Platelet Rich Plasma Administration with Platelet Low Plasma for Healing Incision Wounds in Cruris of *Rattus norvegicus* Rats Viewed from Histology of Collagen Tissues

M. Ifani Syarkawi Rizal\*

**Abstract** Background;Wound healing is a complicated, multi-step process that can be divided into three major phases: inflammation, proliferation, and scar formation / remodeling. The compartmentalization of this process into discrete stages Gives the illusion of simplicity, but in reality it is much more complicated. For efficient healing to occur, complex interactions between multiple cell types, soluble factors and extracellular matrix components are required to re-build the tissue, PRP is produced from the blood by centrifugation, the which concentrates the platelets along with Several bioactive factors that have the ability to promote various aspects of tissue regeneration and protection The rationale for use and therapeutic potential of a high concentration of platelets is based on their capacity to supply and release supraphysiologic amounts of essential growth factors and cytokines from their alpha granules to provide a regenerative stimulus augments that promotes healing and repair in tissues. Unlike PRP, PPP does not have many platelets but PPP has its own unique healing properties. Methodology;This study was an experimental study using the design of the posttest only control group design in an experimental laboratory. The research subjects were divided into 3 groups: 10 rats with incision wound at the cruris and given injection of platelet-rich plasma, then 10 white rats with incision wound at the cruris and were given injection of platelet-poor plasma and 10 rats with incision wound at the cruris for control. The wound area was measured over 7 days, the wound was Harvested and histological analysis was performed Including finding counting of collagen, and will be Analyzed by ANOVA test. Result;The results Showed that the amount of collagen between platelet-rich plasma and platelet poor plasma with p value Differ Significantly 0.000 ( $P < 0.05$ ). Conclusion;In this study there was difference in the amount of collagen between platelet-rich plasma and platelet poor plasma injection for incision wound at the cruris of *Rattus norvegicus*. The amount of collagen is much higher with the platelet-rich plasma injection.

**Keywords:** Platelet-Rich Plasma, Platelet Poor Plasma, Wound Incision

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Medical Faculty Syiah Kuala University Banda Aceh, Indonesia

# **The Influence Of Metronidazole, Heparin And Dexametason Combination On The Degree Of Post Laparotomy Intraperitonium Adhesion On White Rats (*Rattus Norvegicus*)**

Indra Wijaya Putra

**Abstract** Preliminary: Intraperitoneal adhesion is a common complication in surgery laparotomy, as a result of peritoneal irritation caused by infection or surgical trauma and the healing process. The presentation of this incident reached the range of 50% - 97% action laparotomy. This study aimed to determine the effect of the combination of metronidazole, heparin and dexametason after irrigation with normal saline solution on the degree of intraperitoneal adhesions in rats Wistar conducted abrasion action ileum. Method: This research was quasi-experimental using male rats wistar strain (n = 25) conducted abrasion intraperitoneal after previous adaptation, divided into 5 groups: P0 (irrigation with normal saline), P1 (irrigation with normal saline plus a combination of metronidazole and heparin) , P2 (irrigation with normal saline and dexamethasone plus metronidazole combination), P3 (normal saline irrigation with the added combination of heparin and dexamethasone) and P4 (irrigation with normal saline plus metronidazole combination, heparin and dexamethasone). After the treated mice will relaparotomi after 14 days. We evaluated the degree of intraperitoneal adhesion macroscopically and microscopically. Results: The data were analyzed statistically used to determine different degrees of macroscopic and microscopic intraperitoneal adhesions. The degree of macroscopic intraperitoneal adhesions P4 group was significantly lower ( $p < 0.05$ ), compared to the group P0, P1 and P2, P3 but not different. The number of cells fibrin, collagen cells and cell adhesion peritoneal tissue implamasi P4 group was significantly lower ( $P < 0.05$ ), compared to the group P0, P1 and P2, P3 but not different. Conclusion: Conclusion The combined administration of metronidazole, heparin and dexamethasone intraperitoneal have a better effect on the decrease in the degree of intraperitoneal adhesion, cell number fibrin, collagen cells and cell implamasi compared with those not given the combination.

**Keywords:** Intraperitoneal Adhesions, Metronidazole, Heparin, Dexamethasone

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# Effects of Topical Insulin Cream Administration Against The Epithelialization Rate and Thickness of Skin Loss Wound Healing Process in Trial Animal Models Rattus Novergicus Rats.

Moch. Iskandar Islam<sup>1\*</sup>, M Jailani<sup>2</sup>, Dasrul<sup>3</sup>

**Abstract** Background: Insulin is a peptide hormone that acts as an anti-inflammatory agent by activating cytokines which can reduce inflammation and assist the healing process. Through metabolism and synthesis, insulin plays an important role in cell differentiation. The purpose of this study was to assess the effectiveness of insulin in accelerating the wound healing process and the process of re-epithelialization of wounds of skin loss. Method: This study is a completely randomized design study model white rats *Hundred novergicus* as many as 25 individuals. The research group is divided into 5 groups of mice in the form of injury without treatment (negative control / KN), rat wounds treated with gentamicin administration of 0.1% (positive control / KP), 0.5 units of insulin administration cream / 100 grams (treatment 1 / P1), 1.0 units / 100 grams (treatment 2 / P2) and 2.0 units / 100 grams (treatment 2 / P2). Each - each group consisting of 5 rats were evaluated on days 3, 7 and 14, using the scoring system and the measurement of the thickness of the epithelium Nagaoka histopathologically. Multivariate analysis of variance and Kruskal-Wallis test was used for data analysis with a confidence level of 95%. Results: Evaluation process of wound healing on days 3 and 14 showed no significant differences between groups with significant value 0.017 and 0.025 respectively. P2 group showed the most optimal epithelialization process than other groups with a maximum value on the 7th day of  $82.71 \pm 8.72$ . Effect of insulin on the thickness of the epithelium has the greatest pengaruh on the 3rd day of the sebesar 94.8%. Conclusion: Giving insulin topical creams effectively speed up the process of re-epiteliasai and loss of skin wound healing in rats *Hundred novergicus*.

**Keywords:** Loss Of Skin Wounds, Insulin, Wound Healing, Re-Epithelialization

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