

# PROCEEDING



**BIRE**  
Bali Institute of Research Excellence



# RMSEIT-2018

**2nd International Conference on  
Innovative Research in Management, Social  
Sciences, Economics and Information Technology**

**Hotel Santika Seminyak Bali, Indonesia  
December 24-25, 2018**

***CONFERENCE BOOK OF  
ABSTRACT PROCEEDINGS***

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# **Book of Abstracts Proceedings**

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Proceedings of the 2nd International Conference on Innovative Research in Management, Social Sciences, Economics and Information Technology

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***2nd International Conference on Innovative Research in  
Management, Social Sciences, Economics and  
Information Technology (RMSEIT)***

**Venue: Hotel Santika Seminyak Bali, Jl. Sunset Road No.17, Seminyak, Kuta,  
Kabupaten Badung, Bali 80361, Indonesia**

**Conference Theme:** Providing platform for enhancement of research  
and developmental activities through networking and collaboration.

## SCIENTIFIC COMMITTEE

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**Dr. Retno Astuti**

University of Brawijaya, Indonesia

**Dr. Nur Islami**

University of Riau, Indonesia

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Conference Coordinator

## CONFERENCE TRACKS

- Basic Science
- Civil Engineering
- Economics, Finance & Accounting
- Business Management
- Electrical Engineering
- Life Sciences
- Mechanical Engineering
- Medicine Sciences

## CONFERENCE CHAIR MESSAGE

### **Dr. Ryan Feinstein**

“International Conference of Bali Institute of Research Excellence” is a platform that thrives to support the worldwide scholarly community to analyze the role played by the multidisciplinary innovations for the betterment of human societies. It also encourages academicians, practitioners, scientists, and scholars from various disciplines to come together and share their ideas about how they can make all the disciplines interact in an innovative way and to sort out the way to minimize the effect of challenges faced by the society. All the research work presented in this conference is truly exceptional, promising, and effective. These researches are designed to target the challenges that are faced by various sub-domains of the social sciences and applied sciences.

I would like to thank our honorable scientific and review committee for giving their precious time to the review process covering the papers presented in this conference. I am also highly obliged to the participants for being a part of our efforts to promote knowledge sharing and learning. We as scholars make an integral part of the leading educated class of the society that is responsible for benefitting the society with their knowledge. Let’s get over all sorts of discrimination and take a look at the wider picture. Let’s work together for the welfare of humanity for making the world a harmonious place to live and making it flourish in every aspect. Stay blessed.

Thank you.

Dr. Ryan Feinstein

Conference Chair

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## ***Conference Schedule***

**Conference Name: 2nd International Conference on Innovative Research in  
Management, Social Sciences, Economics and Information Technology  
(RMSEIT)**

**December 24-25, 2018**

**Venue: Hotel Santika Seminyak Bali, Indonesia**

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

**Venue: Room 1**

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

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

## DAY 01 (December 24, 2018)

### 1st Presentation Session (10:00 am - 12:00 pm)

#### Venue: Room 1

Presenter Name	Manuscript Title	Paper ID
<b>Track A: Business, Economics, Social Sciences &amp; Humanities</b>		
Dr. Balbir Bhasin	Cultural Resistance to Entrepreneurship: Challenges Faced by Emerging Myanmar	RMSEIT-DEC18-101
Daniel Hendrawan	Legal Protection for Creditors in the Sale of Debtor-Owned Assets Experiencing Bankruptcy According to Indonesian Bankruptcy Law	RMSEIT-DEC18-106
Herlinda Rachmasari	Supply Chain Risk Analysis Using Simulation Model	RMSEIT-DEC18-107
Briliantie Irma Maya B	The Integration of AHP and QFD in Selecting Contractor of Surabaya City Government	RMSEIT-DEC18-108
Muhammad Ali Affandi	A Model of Millennial Participation Intention Level on Mega Event Project	RMSEIT-DEC18-109
Taufan Maulana Harris Purba	Game Theory Approach for Formulation Strategy Negotiation Purchasing in XYZ Company Purchasing Division	RMSEIT-DEC18-110
Rahmawati	The Influence of Dualism Leadership Against the Performance of Construction Workers	RMSEIT-DEC18-111
Yuannisa Aisanafi	Does Intellectual Capital Moderate the Relationship Between Enterprise Risk Management and Market Performance? Evidence from Indonesian Banking Industry	RMSEIT-DEC18-115
Arko Setiyo Prabowo	Project Scheduling of Power Plant Maintenance with Critical Path Method and Time Cost Trade Off (Case Study: Unachievable of Fast Track Program In Pt. Pjb Upht)	RMSEIT-DEC18-116

#### Lunch Time (12:00 pm - 01:00 pm)

## DAY 01 (December 24, 2018)

### 2nd Presentation Session (01:00 pm - 03:00 pm)

#### Venue: Room 1

Presenter Name	Manuscript Title	Paper ID
<b>Track A: Business, Economics, Social Sciences &amp; Humanities</b>		
Indaka Pradnya Rityatama	Integrating Customer Experience Quality and QFD for improving quality of wifi broadband service experience in telecommunication company	RMSEIT-DEC18-118
Christian Andersen	Legal Aspects of Proportionality in Collective Brand Ownership Principles	RMSEIT-DEC18-120
Dyah Ayu Anggraheni Sugiri	The influence of corporate social responsibility expenditure On tax avoidance : Company growth as a moderation	RMSEIT-DEC18-121
Pan, Lindawaty Suherman Sewu	Application of Franchise Systems in Indonesian Traditional Business to Give a Pattern of Distribution of Goods and Services That Have Competitive Value in The Era of Globalization	RMSEIT-DEC18-124
<b>Track B: Medical Medicines &amp; Health Sciences</b>		
T. Ronasky	The Effect Of Vitamin E Supplementation To Morfologi Of Wistar Strain Rat Testis(Rattus Novergicus)With Diabetes Mellitus Type I	BAL-4128-103M
Jauhari	The Relationship Of The Amount Of Testicle Malondialdehyde (Mda) With The Quality Of Spermatozoa In Type I Diabetes Of Strain Wistar White Mice (Rattus Novergicus)	BAL-4128-104M
Tugam Umar Beunot	Immunoexpression Of Acetylcholinesterase In Patient Diagnosed Clinically With Hirschsprung's Disease In Regional Hospital Dr.Zainoel Abidin Banda Aceh Indonesia.	BAL-4128-105M
Rachmat M. Putra	The Effect Of Vitamin A On The Formation Of Fibroblas, Epithelization, And Collagenization In Post-Anoplasty Local Rabbits (Nesolagus Netseherischlgel)	BAL-4128-106M
Arfan Asmadi	The Effect Of Platelet Rich Plasma With Calcium Chloride (Cacl2) Activator On Healing Of Partial Ruptures Of Rat Achilles Tendon	BAL-4128-107M

#### Ending Note (03:00 pm - 04:00 pm)

## **Participants Registered As Listener/ Observer**

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

**Name:** Dr Mike Benn  
General Practitioner (Family Physician),  
Australia



**Conference Day 02 (December 25, 2018)**

Second day of conference will be specified for touristy. Relevant expenses are borne by Individual him/herself.

***TRACK A***

***BUSINESS, ECONOMICS, SOCIAL SCIENCES & HUMANITIES***



## **Cultural Resistance to Entrepreneurship: Challenges Faced by Emerging Myanmar**

<sup>1\*</sup>Dr. Balbir Bhasin, <sup>2</sup>Lee Keng Ng

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**Keywords:** Politically, Entrepreneurship, Risk-Taking

Though cultural explanations as determinants of economic outcomes have mainly been ignored by researchers (Guiso, Sapienza and Zingales, 2006) national culture has been proven to have a direct and identifiable impact on the level of entrepreneurial behavior (Kreiser, Marino and Weaver, 2002). Politically, Myanmar remains one of the few least developed countries in the world, but it too is transitioning to a market economy. Myanmar needs to develop its entrepreneurship sector, which is the key engine for growth and increase in employment opportunities to eradicate poverty and enhance urbanization (Bhasin, 2010). As a country richly endowed with natural resources, it is plagued by the resource curse thesis. Imminent poverty prevails due to lack of economic opportunities to enhance the people's livelihood and effective policy to develop the human capabilities of the people to the fullest. The Burmese culture embraces collectivism and the traditional values of Theravada Buddhism, a belief system which inherently functions against the fostering of entrepreneurial spirit (Dana, 1995). Removing impediments to entrepreneurship is a key challenge for the government. Using Myanmar as a case in point, this paper assesses the influence culture has on entrepreneurship and explores initiatives and measures that can be used to strengthen inherent cultural values that stimulate the entrepreneurial spirit, encourage risk-taking, and in turn promote economic development.



## **Legal Protection for Creditors in the Sale of Debtor-Owned Assets Experiencing Bankruptcy According to Indonesian Bankruptcy Law**

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**Keywords:** Bankruptcy, Investment, Action Pauliana

In the process of a business, entrepreneurs can fail. The risk of this failure can occur in the case of a business that is not smooth and not as expected. Failure in business activities or investments that are quite high risk is when it is unable to pay the debt. This inability to pay debts can cause employers as debtors to be bankrupt by creditors. In the event of bankruptcy, the creditor is very eager that the debts be paid by the debtor. One of the things that can pay debts from creditors to debtors is the assets of the remaining debtors. The assets of the remaining debtors can be used as a guide by creditors to calm down because the debt can be paid. Law of the Republic of Indonesia No. 37 of 2004 concerning Bankruptcy provides legal protection for creditors, namely the existence of the principle of actio paulina. In this principle the debtor cannot sell his assets arbitrarily. Sales made without permission from the curator can result in the sale being canceled by the creditor through the actio pauliana principle.



## Supply Chain Risk Analysis Using Simulation Model

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**Keywords:** Supply Chain Risk Management Construction, Industrial Construction Surabaya, Simulation Monte Carlo.

The construction industry is a sector that has the complexity and poor performance, It classify with delays in project schedule, over budget and quality product. These factors often occur due design specification or selection supply chain less than optimal. Construction supply chain management is an idea that regulates the cycle of the construction supply chain by identifying factors that may cause the risk of supply chain and reduce the impact of factors.. Its important in a project to build a modeling that can detect supply chain risk factors by simulating changes and the impact on the risk of time and cost of project. The objective of this research is giving strategies of each supply chain activities that have most risk on project construction and create a model for any changes and impacts that will occur with the help of a Monte Carlo simulation program. This research will be focus in Surabaya. The final result of this research is convenience for the project manager with simulation method especially to anticipate the impact of the construction supply chain risks that may occur in the implementation of the construction.



## **The Integration of AHP and QFD in Selecting Contractor of Surabaya City Government**

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Indonesia

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**Keywords:** Multi Criteria Decision Making (MCDM), AHP, QFD , Procurement Of Goods And Services In Construction

The process of selecting the contractor in Surabaya Citys Government is using Multi Criteria Decision Making between members of the working group. Contractor selection process is said to be complicated. The working group have to face elections multi project and multi-decision making with the election adhoc working group members and a limited time. Many contractors have not able to fulfill the specification required by the PPK (owner project), the performance of contractors are mess and completion of work does not fit the time required. This research was conducted to develop a systematic method of selecting contractors, who pay attention to the wishes of PPK as the end user. This research are integrating AHP (Analytical Hierarchi Process) and QFD (Quality Function Deployment). The final result of this research is convenience for the PPK to run the project because the contractor selected by the election committee has noticed the PPK voices.



## **A Model of Millennial Participation Intention Level on Mega Event Project**

<sup>1\*</sup>Muhammad Ali Affandi, <sup>2</sup>Christiono Utomo

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**Keywords:** Mega Event Project, 2018 Asian Games, Extended Theory of Planned Behavior (TPB), Millennial Generation, Participation Intention

It is well known that the level of community participation supports the success of a mega event project. Also, the amount of advertising costs when the mega event project forms a big question as to whether the effectiveness of advertising affects the attitudes and intentions of consumers towards advertising and events. It depicts the need for an analysis of what factors influence the intention of millennial participation in the mega event project. The present research contributes to the development of hypothetical model in measuring the millennials participation level on mega event project. Currently, the millennial generation is the one whose take most of productive activities along with x-generation in many aspects. The proposed model consists of several variables formed from the extended Theory of Planned Behavior (TPB). Explicitly, this study constructs the conceptual model of factors that influence millennial in the participation of the mega event project namely the 2018 Asian Games case study. Following a literature review and hypothetical constructs, nine hypotheses were developed which could be further tested in Structural Equation Model (SEM). The ontology of the model will support the epistemology of the developed hypothetical model that can be used for practical and managerial perspectives.



## **Game Theory Approach for Formulation Strategy Negotiation Purchasing in XYZ Company Purchasing Division**

<sup>1\*</sup>Taufan Maulana Harris, Purba, <sup>2</sup>Bambang, Syairudin, <sup>3</sup>Fuad, Achmadi

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**Keywords:** Purchasing, Purchasing Negotiation, Game Theory, Aluminium Industry

XYZ company is one of the companies which take part in aluminium processing with 70% production for exports and 30% for local needs. The division that supports the production process at XYZ Company is one of the purchasing divisions. The purchasing division has a function of buying goods and services to support the production process. One item as a production support that is continuously used at XYZ Company is work roll. In the process of procurement goods and services, negotiations occur between buyers and suppliers. External providers have the power to lead prices sometimes buyers did. If at the same time neither party succumbs, a deadlock situation will occur or the transaction will not succeed. It requires an effective decision-making process. The purpose of this study is to model negotiation strategies between buyers and suppliers through the game theory approach, namely two-person games and N person games. This study uses a purposive sampling technique to determine the sample so that people who understand the strategy of cooperative relationships with suppliers are well selected. This study uses secondary data taken from previous buy-sell transaction data. Use this data as the first step in identifying supplier strategies and criteria. The Research begins with identifying strategies, criteria of players, compile the payoff matrix, determining the value of equilibrium, and analyzing strategies. The results of the study are in the form of a strategy model between buyers and suppliers.





## **The Influence of Dualism Leadership Against the Performance of Construction Workers**

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**Keywords:** Dualisme Leadership, Staff Performance, Construction, Factor Analysis

Construction project usually consists of one project manager and one field manager for an ongoing construction project. But a different phenomenon come from the construction company which was process in building construction project, the phenomenon is placing two project managers. This phenomenon causes differences in work performance. Research to find out the factors result from two project managers in a construction work that affects workers' motivation and performance is very much needed as part of leadership research regarding dual leadership that has been studied in several forms of organizations and industries other than construction project.. Planned method by submitting a questionnaire to the responden about factors that affecting workers performance. Questionnaire in this study was distributed to all workers in construction project. The data that obtained will be processed descriptively in the form of an exploration by showing the average value and the standard deviation of the respondents choice variable. The analytical method that used as a data collection technique is factor analysis. The expected result are to find dominant factor caused by the dualism leadership (project manager) on the performance of workers in construction project.



## **Does Intellectual Capital Moderate the Relationship Between Enterprise Risk Management and Market Performance? Evidence from Indonesian Banking Industry**

<sup>1\*</sup>Yuannisa Aisanafi, <sup>2</sup>Chaerul Djusman Djakman

<sup>1,2</sup>Universitas Indonesia, Depok, Indonesia

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**Keywords:** Enterprise Risk Management, Intellectual Capital, Market Performance, Indonesia.

Despite an increasing number of studies on the link between enterprise risk management and market performance which are still debatable, the literature has predominantly focused on relationship between them without considering moderating factors. This study not only introduces intellectual capital as a moderator variable that potentially moderates the ERM-market performance relationship, but also uses a comprehensive list of ERM measurement. This study analyzed degree of ERM using Lundqvists comprehensive list of ERM measurement and Pulics value added intellectual coefficient (VAIC) for intellectual capital in 108 banking-sector listed in Indonesia stock exchange for the period 2014-2016. The result suggest that there is a positive significant relationship between ERM and market performance in Indonesian banking sector, by using comprehensive ERM measurement. Partially, leverage, return on assets, revenue growth, size of board of directors, are variables that have significant impact to market performance. Intellectual capital as moderating variable is also positively significant. This study only focuses on banking sector to avoid bias in the result. Future research could expand industry sector to get broader result. This paper presents the first study of intellectual capital as moderating variable between ERM-market performance link, and the degree of ERM in banking sector using comprehensive list of ERM, since the inconclusive results from prior studies about ERM-market performance link in developing countries needed further research.



## **Project Scheduling of Power Plant Maintenance with Critical Path Method and Time Cost Trade Off (Case Study: Unachievable of Fast Track Program In Pt. Pjb Upht)**

\*Arko Setiyo Prabowo

Institute of Technology Sepuluh November Magister Program-Project Management  
Surabaya, Indonesia

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**Keywords:** Power Plant Maintenance Scheduling, Critical Path Method, Time Cost Trade Off

Electricity is an energy that plays an important role in human life. PT. Pembangkitan Jawa Bali (PT. PJB) is a company engaged in electricity generation. In its development, PT. PJB tried to expand its business to increase the amount of electricity supply. This means that there is a need for careful planning and standardized governance from the beginning of project initiation so that the risk of possible failure can be mitigated properly. PT. PJB has an acceleration target for power plant maintenance projects. However, due to problems, the target was not achieved. These problems vary and are often out of control as examples of workloads. Critical Path Method (CPM) accommodates critical parts of a project to be a special concern for the planner. One of the keys to success in using Critical Path Method (CPM) is the ability and instinct of the planner in determining the plan correctly. Scheduling using the Critical path method (CPM) will be done using the help of Microsoft Excel and Mirosoft Project software. Alternative solutions to reduce the duration of the project with the addition of overtime hours with Time Cost Trade Off (TCTO) is the author's choice to increase the efficiency of the maintenance time duration so that the resulting scheduling can be a reference for the construction of a power plant maintenance project.



## **Integrating Customer Experience Quality and QFD for Improving Quality of wifi Broadband Service Experience in Telecommunication Company**

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**Keywords:**Customer Experience Quality, Service Experience Quality, Quality Function Deployment (QFD), Wifi Broadband Services

Nowdays, just competent services are not enough, services need to provide good customer experience as a competitive advantage Therefore in this research, quality of service experience will be improved based on Customer Experience Quality model integrated with Quality Function Deployment (QFD) method. This research will be conducted on telecommunication company in South Surabaya which is the number of Wifi Broadband Services users has decreased. Customer perceptions and importances of each Customer Experience Quality attributes in every customer touch points will be processed to identify which attributes are prioritized for improvement with the Important-Performance Analysis method. Then those priority attributes further processed using QFD to design the improvements and the technical recommendations. By improving quality of service experience, it is expected increasing the positive Word of Mouth intention in order to increase the number of customers. In addition, it is also expected increasing Customer Loyalty in order to increase retention so as prevent decrease in number of customers that causes losses to the company reaching hundreds of millions rupiah in a year.



## Legal Aspects of Proportionality in Collective Brand Ownership Principles

<sup>1\*</sup>Christian Andersen, <sup>2</sup>Evlyne Supratman  
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**Keywords:** Indigenous Culture, Fair Business Competition, Intellectual Property Rights and Trademark

Indonesia is the fourth country with the largest population in the world. With such a large population, Indonesia is one of the countries with the largest market share accompanied by adequate human resources. Indonesia is also enriched with a variety of indigenous cultures originating from 1,131 tribes (according to the Central Statistics Agency data based on the 2010 census) which includes various regional languages, traditional clothing, traditional songs, traditional cuisine, traditional medicine, handicrafts, traditional architecture, and much more again. The rapid development of MSMEs in the creative industries sector has not yet been accompanied by legal protection related to Intellectual Property Rights contained therein. As for referring to the weighing section (a) of Law Number 20 of 2016 concerning Trademarks and Geographical Indications, in the era of global trade the role of Brands and Geographical Indications is very important, especially in maintaining fair business competition and protection of Micro, Small and Medium Enterprises. Brands are generally registered for ownership only by one individual or legal entity. However, because in Indonesia it is very dominated by MSMEs which on the one hand have limited capital but on the other hand also need to be protected by their rights, then joint ownership of the brand becomes necessary. This is possible in the form of collective brand ownership.



## **The Influence of Corporate Social Responsibility Expenditure on Tax Avoidance : Company Growth As A Moderation**

<sup>1\*</sup>Dyah Ayu Anggraheni Sugiri, <sup>2</sup>Dwi Martani

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**Keywords:** CSR Expenditure, Tax Avoidance, Cash ETR, Current ETR, Sales Growth Rate, Sustainable Growth Rate

The relationship between CSR and tax avoidance still has mixed results in recent times. In Indonesia, the relationship between CSR and tax avoidance can be attributed to the existence of tax incentive policies for CSR activities in the form of tax deductions. The existence of these incentives can create a gap for companies to carry out tax avoidance. If previous studies using disclosure as a proxy for CSR, in this study we offer use the real CSR expenditure issued by the company to provide a clear relationship between CSR and tax avoidance. This study also added variable sales growth (SGR) and sustainable growth (SSGR) as a moderation. Using 187 sample observations during years 2012-2017 with Cash ETR and Current ETR as a proxy tax avoidance, empirical results indicate a positive relationship between the CSR expenditure and tax avoidance. Interaction between CSR expenditure & SGR have no effect in a relationship with tax avoidance, but interaction between CSR expenditure & SSGR strengthening positive relationship with tax avoidance. This research also offer qualitative insight through case studies to illustrate the allocation of educational CSR expenditure to provide benefits for businesses and corporations. The results represent an indication that the companies distributes their CSR funds through the educational institution they (corporate) have dan make a colaboration to improving the quality of company HR. In addition, CSR education also encourages several companies to create new businesses in the field of education..



## **Application of Franchise Systems in Indonesian Traditional Business to Give a Pattern of Distribution of Goods and Services That Have Competitive Value in The Era of Globalization**

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**Keywords:** Franchise, Traditional Business, Distribution Of Goods And Services, Globalization.

Nowadays business activity is developing to be more complex, both in terms of numbers nor in terms of complexity which forms various of business cooperation. Business cooperation that occurs is very diverse, depending on what area of business that are running. The Diversity in business cooperation of course gave birth to new problems and challenges, therefore the law should be ready to anticipate any developments that arise. We recognize that international trade is also carried out involving the interests of two or more countries with each other need each other. International trade allows countries to have a more diverse range of goods than can be produced in their own country. Every country has limited resources and capability of production so that goods can be produced in a limited basis. In a global era that characterized by free trade, emerged a variety of ways both business development through trade and investment. One way of business development or business can be done through franchises (franchise), as well as on our country that have a various unique and distinctive range of traditional business like craft, ubi cilembu, et cetera, since Indonesia have a lot of natural and human resources Indonesia. As a country that has signed the Ratification Agreement Establishing the World Trade Organization (WTO) or the Agreement Establishing the World Trade Organization, business franchise (franchise) foreign and local spread in Indonesia. This paper aims to explain further about the benefit if our local-traditional business use franchise as the pattern of distribution of goods and services that have competitive value in the Era of Globalization. Those provisions to the franchise (franchise) in Indonesia has actually quite adequate. In addition to the unique characteristics, namely marketing and operational support, support for starting a business, support for operations, and training and availability of skilled, technology transfer and transfer of management of the Franchisor (the franchisor), forms of cooperation franchise (franchise) this can be used as an alternative to foster small and medium enterprises in Indonesia. One of a growing number of business activities carried out and implemented as one way of developing business internationally is to use



a method referred to as a franchise or franchise a business strategy that is developing in which the quality (quality) products become standardized. Franchising waking the various elements which strengthen competitiveness in business, the elements of quality standards, production processes, management systems that are reliable and reputable franchise trademark of the giver. These elements mutually support each other so that the franchise be regarded as a unique form of business. Its uniqueness is reflected in all elements of the franchise builders, which in turn encourages the emergence of a set of rules of law which is peculiar in character, but it raises an agreement which is of course characteristic that distinguishes between the general business agreements and franchise agreements.



***TRACK B***

***MEDICAL MEDICINES & HEALTH SCIENCES***



## **The Effect Of Vitamin E Supplementation To Morfologi Of Wistar Strain Rat Testis(Rattus Novergicus)With Diabetes Mellitus Type I**

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**Keywords:** Vitamin E, Testicular Rats Histomorphometry White (Wistar strain), Dm Type 1.

Diabetes mellitus (DM) is a metabolic disease with characteristics of hyperglycemia that occurs due to abnormal insulin secretion, insulin action, or both. 1 This disease is reported to occur in 9% of male and 7.9% of female. The Center of Disease Control (CDC) report states that there were 8.1 million undiagnosed people in 2014 and 29.1 million had this disease in the United States. 2 In diabetics can occur long-term damage, dysfunction, and failure of different organs, especially the eyes (diabetic retinopathy), kidney (diabetic nephropathy), nerves (diabetic neuropathy), heart (myocardial infarction) and blood vessels (atherosclerosis) and infertility. Reports of incident DM-related infertility occur in 9% of adults > 18 years of age experience the consequences endocrine dysfunction spermatogenesis. Vitamin E plays a role as antioxidant exogenous (non- enzymatic ) which can protect damage membrane biological consequence radical free. Vitamin E protects acid fat not saturated on membrane phospholipid. In a manner particular, vitamin E too important in prevent peroxidation membrane acid fat not saturated. According to Linder, (2006) vitamin E is a agent pusher or booster fertility, because could normalize epithelium tubules seminiferous. This research is experimental research with use design post-test only control group design in laboratory experimental. Design research this selected based on concept that each unit from population is homogeneous and have the same characteristics. Division sample do randomized (random assignment). On group experiment treatment immediately given stimulus and observation end while on group control used as comparison from group treatment . The average seminiferous tubule of rat testis in each treatment group showed variable numbers. The average seminiferous tubule diameters of rat testes in the negative control treatment (KN) were 261.57 5.72 m , then decreased to 241.18 18.53 m, in the treatment of DM mice induced by alloxan (KP), and experienced a re-increase in the treatment of rat DM induced by alloxan and vitamin E with a dose



of 100 mg/kg/day (P1), and 200 mg/kg/day (P2), respectively is 265.92 ± 15.97 m and 271.41 ± 24.79 m. Based on one way Analysis of variance (ANOVA) statistical test, the significant of p value was 0.039 < 0.05, it can be concluded that the treatment of vitamin E (P1 and P2) significantly affected the diameter of seminiferous tubules in testicular diabetic of white rats.



## **The Relationship of the Amount of Testicle Malondialdehyde (Mda) With The Quality of Spermatozoa In Type I Diabetes of Strain Wistar White Mice (*Rattus Novergicus*)**

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**Keywords:** Diabetes Mellitus, Testicle Of Malondialdehyde, Quality Of Spermatozoa  
And White Mice.

Hyperglycemia in type 1 diabetes mellitus is thought to play a role in increasing free radicals (oxidants) and decreasing blood antioxidants. The increase in free radical compounds triggers lipid peroxidation in the blood and testicle which is characterized by an increase in the amount of testicle malondialdehyde (MDA) and a decrease in the quality of spermatozoa. This study aims to determine the relationship of the amount of MDA and the quality of spermatozoa of type 1 diabetes mellitus white mice. The design of this study was cross-sectional and used observational analytic tests. The research subjects were divided into 2 groups, namely 16 normal white mice and 16 type 1 diabetes mellitus white mice induced by alloxan. The amount of MDA of spermatozoa was measured using the TBA test and spectrophotometer. The observation of the quality of spermatozoa was based on the number, percentage of motility and morphology of normal spermatozoa carried out using eosin-negrosin staining. The data in the form of the amount of MDA of spermatozoa and the percentage of viability were analyzed by paired t-test and Pearson correlation using SPSS 21.0. The results of the analysis showed that the amount of MDA of normal mices testicle were significantly different ( $p < 0.05$ ) compared to DM white mice. The number, motility and normal morphology of spermatozoa of normal white mice differed significantly ( $p < 0.05$ ) compared to DM white mice. There was a strong relationship between testicle amount of MDA with the number, motility and normal morphology of spermatozoa with the negatif direction ( $R = -0.877$ ;  $-0.804$  and  $-0.795$ ). The amount of testicle MDA were strongly associated with the number, motility and normal morphology of spermatozoa with negative direction.



## **Immunoexpression of Acetylcholinesterase in Patient Diagnosed Clinically With Hirschsprung's Diseases in Regional Hospital Dr. Zainoel Abidin Banda Aceh Indonesia**

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**Keywords:** Hirschsprung's disease, diagnostic test, acetylcholinesterase (AChE), Banda Aceh

Hirschsprung's disease (HD) is a failure state of the cephalocaudal migration of the distal parasympathetic myenteric nerve cells. This situation will cause the absence of ganglion / aganglionic cells starting from the anus and extending with a distance that varies proximally. The main standard for HD diagnosis is the result of histopathological examination of rectal biopsy. Biopsy results can be done through rectal suction biopsy which is done histopathologically with Hematoxyline Eosin (H&E) staining. In addition to coloring tests of H&E, there is a histochemical examination of acetylcholinesterase (AChE) in confirming the diagnosis of HD. This examination can evaluate the activity of this enzyme in hypertrophic nerve fibers. The results of rectal suction biopsy with histochemical evaluation were reported to be able to improve the accuracy of biopsy results (sensitivity 100% and specificity 100%). this study used a cross sectional design with observational analytic design to determine AChE staining immunoexpression in HD patients. In this study also researchers wanted to know the specificity, sensitivity, positive predictive value, negative predictive value and accuracy of the AChE examination compared to H&E staining. Based on the diagnostic test obtained a sensitivity value of 100% which means that the ability of AChE's immunohistochemical examination to detect HD in the sample was 100%. The specificity was 100%, meaning that the ability of AChE's immunohistochemical examination to get rid of samples that did not suffer from HD was 100%. The accuracy value is 100% which means that the ability of AChE's immunohistochemical examination to detect correctly all study samples suffered from HD by 100%. The positive predictive value is 100%, which means that if a positive sample from AChE's immunohistochemical examination, 100% of the sample is suffering from HD. While the negative predictive value is 100%, which means that if a negative sample from AChE's immunohistochemical examination shows 100% true that the sample does not suffer from HD. the results of the AChE immunohistochemical diagnostic test showed good sensitivity value of 100%, 100% specificity, positive predictive value of 100%, negative predictive value of 100%



and accuracy of 100%, so this examination could be used as a basis in establish HD diagnosis, so that the results of examination of rectal suction biopsy with H&E staining and AChE immunohistochemistry can be believed without further examination.



## **The Effect of Vitamin A on the Formation of Fibroblas, Epithelization, and Collagenization in Post-Anoplasty Local Rabbits (*Nesolagus Netseherischlgel*)**

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**Keywords:** SAnoplasty, Wound Healing, Vitamin A, Fibroblasts, Epithelialization, Fibroplasia.

Anoplasty is the most common procedure performed in patients with anorectal malformations. Several care needed to provide a good functional prognosis. Products containing vitamin A has been used as a therapy to improve the outcome of patients wound healing. Vitamin A can improve various aspects of wound healing through stimulation of angiogenesis, collagen synthesis, epithelialization and fibroplasia. To assess the effect of vitamin A on post anoplasty wounds in local rabbits (*Nesolagus netscheri*) clinically and assessment of fibroblasts, epithelialization and colonization. This study is an experimental study with the post-test only control group design. Experimental animals will be carried out an anoplasty and the treatment group will receive vitamin A 0.1% topically. Clinical wound assessment was performed using Bates-Jensen Wound Assessment tools and histological wound assessment was also performed. Statistical analysis was performed using Mann Whitney Test after normality and homogeneity tests were carried out. Based on clinical assessment of wounds using the Bates-Jensen Wound Assessment Tool, showed the experimental group who did not get vitamin A had higher scores based on color, edema, necrotic tissue, wound margins and exudates (3, 75 0.45; 4.13 0.34; 4.56 0.51; 3.69 0.48 and 3.06 0.68, respectively) compared to the treatment group (1.19 0.40; 1.00 0.00; 1.00 0.00; 1.13 0.68 and 1.00 0.00, respectively). These results indicate that the wound recovery process is not good for that group. When histological wound assessment was performed, both fibroblasts, epithelialization and collagenization, there is a significant difference between the two groups (P value = 0,000) where the treatment group had a higher average score than the group that did not. Topical vitamin A can improve wound healing after anoplasty.



## **The Effect of Platelet Rich Plasma With Calcium Chloride (CaCl<sub>2</sub>) Activator on Healing of Partial Ruptures of Rat Achilles Tendon**

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**Keywords:** Platelet-Rich Plasma, Achilles Tendon, CaCl<sub>2</sub>, Rat

Achilles tendon rupture (partial or complete), is one of the disorders of the Achilles tendon caused by trauma or because of excessive use. The incidence of tendon rupture increases by 50% in developed countries. Management of the treatment of rupture of the tendon can be done conservatively, among others by injection of platelet-rich plasma. Platelet-rich plasma is an autologous of human platelets in a small volume in the plasma. Platelets contain protein growth factor. Platelet Rich Plasma can be activated exogenously by thrombin, calcium chloride (CaCl<sub>2</sub>). To test whether the administration of platelet-rich plasma with activator CaCl<sub>2</sub> can accelerate the healing process in Achilles tendon injury and is better than the administration of platelet-rich plasma without activator, to determine the effect of PRP This study was an experimental study using the design of the post-test only control group design in an experimental laboratory. The research subjects were divided into 2 groups: 10 white rats with tendon injuries and given injection treatment of platelet-rich plasma, then 10 white rats with tendon injuries and were given injection treatment of platelet-rich plasma with the addition of CaCl<sub>2</sub>. The assessment of tendon tension after treatment was determined by using tendon tensile strength, for the assessment of type III collagen to be measured by scoring the intensity with immunohistochemical staining. And will be analyzed by ANOVA test. The results showed that the tensile strength of the tendons between platelet-rich plasma injections with injection of platelet-rich plasma plus CaCl<sub>2</sub> did not differ significantly ( $p > 0.05$ ). whereas for the scoring assessment of type III collagen immunohistochemical staining intensity between platelet-rich plasma injections with injection of platelet-rich plasma plus CaCl<sub>2</sub> there were significant differences ( $p < 0.05$ ). In this study there was no difference in the tensile strength of the tendons in the Achilles tendon injury of white rats injected with platelet-rich plasma with those injected with platelet rich plasma + CaCl<sub>2</sub>. As for the results of scoring type III collagen in Achilles tendon injuries in white rats there were significant differences between those injected with platelet-rich plasma and those injected with platelet rich plasma + CaCl<sub>2</sub>.





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