









NATIONAL SYMPOSIUM & WORKSHOP



in Conjunction with

The 1st Indonesian General Surgeon Society (PABI) Aceh Chapter Meeting
The 1st Ikatan Alumni Bedah Unsylah (IABU) Annual Meeting

"Tips and Traps in Emergency Surgical Daily Practice"

Dr. Zainoel Abidin General Hospital & Building D Multipurpose Auditorium F-MIPA Unsyiah, Banda Aceh, 06 - 08 December 2019



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Foreword



Assalamu'alaikum Wr. Wb

Praise and gratitude we pray the presence of Allah SWT for all His mercy and guidance we can still work and work to help in the field of education and humanity. With our greetings and prayers, we are praised to the Holy Prophet Rahmatan lil alamin Rasulullah Muhammad SAW who has brought us from the realm of darkness to a world full of knowledge.

In it's third year, the **2019 Aceh Surgery Update** will be held in conjunction with The 1st Indonesian General Surgeon Society (PABI), Aceh Chapter Meeting and The 1st Unsyiah Surgical Alumni Association (IABU) Annual Meeting, on December 06th – 08th December 2019 at Dr. Zainoel Abidin Hospital and Building D Multipurpose Auditorium F-MIPA Universitas Syiah Kuala Banda Aceh, with the theme of **Tips and Traps in Emergency Surgical Daily Practice**. The scientific program this time was very special with the presence of the *Bali Medical Journal* indexed by Web of Science in scientific publications for all topics presented, both in symposium sessions and free papers.

I would like to welcome all the experts who have been willing to attend to be the resource persons at this scientific event. A big thank you to all the committees and sponsors who helped to make this big activity a great success. Finally, I also welcome to all delegates, I hope you all get a high valuable scientific experience in the Banda Aceh, the City of Gemilang.

Wassalam, Sincerely yours,

Yopie Afriandi Habibie, MD, SpBTKV-E, FIHA, FICS, FACS Chairman





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TABLE OF CONTENTS

vord	
Yopie Afriandi Habibie, MD, SpBTKV-E, FIHA, FICS, FACS	
Chairman	
Editorial Board Bali Medical Journal	i
Table of Contents	
SPEAKER	
Abdominal pain in children; medical vs surgical	
Muntadhar Muhammad Isa	
Congenital anomaly emergency cases: what should we do in rural areas	
Djeni Bijantoro	
Constipation: challenging diagnosis and treatment in children	
Dian Adi Syahputra	
Nightmare in the operating room; how to save life in limited resources fa	• •
of thoracic cavity	
Ito Puruhito	
Snakebites cases neglected in Indonesia	
Tri Maharani	
Spine injury, how to recognize and stabilize patient in golden hours perio	ods
Azharuddin	
Early management in burn injury	
Muhammad Jailani	
What's new in spine surgery	
Teuku Nanta Aulia	
Anterior cruciate ligament injury	
Zulkarnaini Hasan	
How to evacuate multiple trauma patients in the pre-hospital setting	
Meilya Silvalila	
Open fracture: wich one is the best, ORIF or OREF?	
Onarisa Ayu	
Update management of urinary retention in rural areas	
Jufriady Ismy, Ahlan Syahreza	
Update in management for benign prostate: surgery or watchful waiting	
Dahril	
Management update in urinary tract infection	
M. Ridha	

	When to decide surgical bleeding control; should we wait for further examination
	Limb ischemia, salvation or amputation? how I do it
	Gangrene diabetic: how to manage? Fachrul Junaidi
	Emergency in urology: surgical aspects Doddy M. Soebadi
	Orthopaedic injury and their treatment in earthquake
	Trauma patients, early detection and current concept of abdominal Trauma management Pria Agustus Yadi
	Quality differences between single incision laparascopy surgery and three port conventional laparascopy in Dr. Zainoel Abidin General Hospital Banda Aceh, Indonesia Ferry Erdani
	Current laparoscopic procedure in acute cholecystitis, when to do in emergency setting, when in elective procedure
	Burr holes exploration, it still the current procedure for head injury management in rural arealskandar
	Percutaneous epidural adhesiolysis: new alternative treatment of low back pain in lumbosacral herniated intervertebral disc
	Update management in patient with increase intracranial pressure before referral to hospital Bustami
	Paran's injection and ligation for ambeien (PILA)
	Modern circumcision technique
	Female circumcision: religion, law & medicalization
	Basic vascular knot tyingFachrul Junaidi
	Basic vascular suturing technique lecture
AS	E REPORT
	Forensic investigation in a multiple trauma deseleration case due to road traffic accidents
	Obstructive jaundice as manifestation of relapsing Hodgkin's Lymphoma: the success of chemotherapy Fauzi Yusuf, Meutia Rizki Innayah, Desi Maghfirah, Azzaki, M Riswan
	Neuroendocrine tumor of extrahepatic biliary tract Muhammad Yusuf, Muhammad Taqwa
	Spontaneous intracerebellar haemorrhage and hydrocephalus: a case report

ABSTRACT

Pain management in fibrosarcoma: case report
Juwita, Natasya W. Yuniza, Ellya Nurfida, Novita Andayani, Mufrizal, Dessy R. Emril
Revascularization after soft tissue tumor wide exsicion, succesfull limb saving
Management of acute appendicitis in pregnancy at Dr. Zainoel Abidin General Hospital, Banda Aceh: a case report
Intradural extramedullary spinal tumors: case series and literature review
Off-pump coronary artery bypass grafting (OPCAB) with support of intra-aortic balloon pump (IABP) in patient with poor left venticular function: a case report
Avascular necrosis: a case series and literature review
Bilateral posterior fossa epidural hematoma and sequel dysmetria: case report and review of literature
Same side double epidural hematomas: case report and literature review
Operative stabilization of a patients with flail chest and pulmonary contusion three days after referred from the rural hospital
Management of epispadias in zainoel abidin hospital
How to identified vascular trauma in rural area: lesson learn from delayed diagnose, successful limb saving
Anaplastic meningioma: case report and review of the literature
Cognitive assessment after operative management in hemorrhagic stroke patients: serial cases and literature review
Dose adjustment of analgetic in treatment of pancreatic cancer pain
Pain management in advanced lung cancer: case series and literature review
Management of cancer pain with analgetic adjuvant and weak opioid in urology metastatic cancer pain
Brain abscess: case series and review of literature
Spontaneous hemorrhagic stroke during pregnancy: case report
Bilateral chronic subdural hematoma: two consecutive case report and review of literature
Health post as an indicator of the development of health clusters in disaster: earthquake case series in Pidie Jaya, Lombok and Palu, Indonesia Safrizal Rahman, Zulkarnaini, Khalikul Razi
Limb salvage by femoro-popliteal bypass in acute limb ischaemia due to femoral artery total occlusion: a case report

Description of external genetalia reconstruction in surgical patients at Dr. Zainoel Abidin General Hospital Banda Aceh
Period September 2017 to August 2018
Association of body shape index score overview on burn patient's outcome at Dr. Zainoel Abidin Hospital, Banda Aceh in 2016
Germ and resistance patterns in operating wound infection patients (ILO) post craniotomy in Dr. Zainoel Abidin General Hospital Banda Aceh 2018
The urgency of surgical skill competence in the management of Palu earthquake victims 2018
Profile of atresia esofagus in Regional General Hospital Dr. Zainoel Abidin period 2015 – 2016, Banda Aceh-Indonesia
Overview of choledocholithiasis patients undergone surgery At Dr. Zainoel Abidin Hospital Banda Aceh period 2016-2017
Profile of polytrauma patients following with orthopaedic injury in Dr. Zainoel Abidin General Hospital, Banda Aceh-Indonesia Bellinda Paterasari, Zulkarnaini
Lower extremity amputation characteristic in Dr. Zainoel Abidin General Hospital Banda Aceh from January-December 2016
Health data profile in the earthquake emergency response phase in Lombok; experience in Indonesia
Profile patients with cleft lip and palate in Cleft Lip and Palate Center Aceh Malahayati Hospital year 2016-2017
Description of bone mineral density and sex of osteoporosis patient in Ortophedic Outpatient Clinic, Dr. Zainoel Abidin General Hospital, Banda Aceh-Indonesia
Profile of head injury related to history of using helmet among motorcycle rider accident
Characteristics of urinary stone diseases based on stone analysis results in Dr. Zainoel Abidin Aceh Hospital 2018-2019
Gastroschisis profile at the Regional General Hospital Dr. Zainoel Abidin Banda Aceh in period 1st January 2015 until December 31st 2018 Darul ilham, Teuku Yusriadi
Outcome Hirschsprung's disease patients postoperative TEPT in Dr. Zainoel Abidin General Hospital Banda Aceh 2016-2017
Profile of bacterial pattern and sensitivity test of patients with kidney stone with urinary tract infection at the Regional General Hospital Dr. Zainoel Abidin Banda Aceh 2017
Profile analysis of urinary tract stones in Banda Aceh
Management of urinary tract stones profile at Dr. Zainoel Abidin General Hospital, Banda Aceh-Indonesia
Characteristics of severe head injury patients in Dr. Zainoel Abidin Hospital, Banda Aceh-Indonesia
Prevalence of mandibular fracture in Dr. Zainoel Abidin Hospital during the year 2018

Urethrocutaneous fistula occurrence after urethroplasty in hypospadias in Dr. Moewardi General Hospital,
Surakarta June 2014 - June 2019
Muhamad Muamar, Wibisono
The effectiveness of anti-neuropathic pain in cancer pain patients in Dr. Zainoel Abidin General Hospital, Banda Aceh-Indonesia Dessy Rakhmawati Emril, Laila Fajri, Suzila, Endang Mutiawati
Durin alkanatian in almania nain and the valetianship mith main assur
Brain alteration in chronic pain and the relationship with pain score Endang Mutiawati, Syahrul, Nasrul Musadir
The effect of adding isometric exercise plantar flexors on calf circumference inpatient post open reduction internal fixation non-articular tibia fracture
Nasyaruddin Herry Taufik, Angela Bibiana Maria Tulaar, Ratna Soebadi
Endovascular interventions torako-abdominal aortic aneurysm in patients with Marfan syndrome: systematic review
Biomarker infection and electrolyte imbalance after pediatric surgery in Pediatric Intensive Care unit
Demographic and clinical characteristics of traumatic brain injury patients
in the Dr. Zainoel Abidin Public Hospital, Banda Aceh-Indonesia
Association between obesity and hormone receptor characteristics of primary breast cancer in Cipto Mangunkusumo General Hospital in 2017
Hardian Gunardi, Diani Kartini
Fibrin glue application effect on collagen density and fibroblast quantity in primary colonic anastomose with intraperitoneal infection (New Zealand Rabbit Study)
R. Imam Muhajirin, Ariandi Setiawan, Vicky Sumarki Budipramana
The comparison of masticatory status in ameloblastoma patients after segmental mandibular resection with LC type defect who have undergone mandibular reconstruction with plate and Kirschner wire in Dr. Soetomo General Hospital Surabaya in 2015 -2019
Anggun Pribadi Utama, Maryono Dwi Wibowo, Urip Murtedjo
The effect of thyroidectomy on the quality of life in health aspect of multinodular nontoxic goiter before and after surgery
The difference of Ki-67 expression in patients of papillary non-metastasis and regional metastasis patients in Dr. Soetomo General Hospital Surabaya
Eureka Nusra G. T, Maryono Dwi Wibowo, Dyah Fauziah
Surgery in foreign body ingestion and aspiration: descriptive study
Validity prognostic of S.T.O.N.E nephrolithometry (size tract obstruction number of calyces essence) score to predict stone free status in kidney stone patients after percutaneous nephrolithotomy
A.A. Ayu Oka Kusuma Dewi, A.A Gde Oka, I Gede Raka Widiana
Open surgery with intraoperative enteroscopy in massive jejunoileal bleeding in pediatric patient: an evidence-based case report Rini Yolanda, Kshetra Rinaldhy
Distribution of cleft lip and palate patients who performed surgery in Aceh Cleft Lip And Palate Center period of November 2018 - October 2019
Doni Permana Putra, T. Romi, Rezania Razali, Syamsul Rizal, Mirnasari
Characteristics of cleft lip patients in Aceh period November 2018 - October 2019
Ramadhan Willy Saputra, Syamsul Rizal, Asrofi S Surachman, Mirnasri Amirsyah

RESEARCH

Coordination medical team for emergency response

Lucky Tjahjono

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Introduction: The purpose of this presentation is to socialize the Emergency Medical Teams of the Indonesian Doctors Association - the IDI Executive Board and ask for input to strengthen the IDI EMT towards global/regional engagement. IDI Emergency Medical Team is a team under the auspices of the Indonesian Doctors Association that is dedicated to disaster mitigation & response efforts such as disaster/health crisis response, active mitigation within the framework of efforts to reduce disaster risk/DRR (Disaster Risk Reduction). EMT IDI is a place for every Branch & Regional IDI that has been playing an active role in disaster mitigation & Response. All IDI members who have an interest and ability to play an active role in disaster mitigation & response activities can become members of the IDI EMT.

Methods: In an effort to make a disaster response, EMT IDI played a role in the pre-hospital area, which included the handling of disaster victims, Rapid Health Assessment, activation/support of Health Clusters. Medical assistance, Communicator & Advocacy & Coaching System. EMT IDI also provides support in the form of MOBILE and FIXED (Type-1 EMT). Besides that, EMT IDI can also carry out supporting type-2 EMT at referral services including hospitals.

Result: In implementing disaster mitigation & response efforts, PB IDI coordinates with Cross-Sector, Stakeholders, especially the National Disaster Management Agency and the Ministry of Health and Health Office, in collaboration with the Regional IDI involving the Branch IDI.

Conclusion: During a disaster, the response in the initial phase is carried out by the nearest EMT IDI Branch which will be strengthened by the IDI EMT Region and PB IDI EMT. EMT IDI members are competent to make efforts in basic medical emergencies based on IDI Disaster Management standards. Referring to WHO directives, it is necessary to strengthen integration and structuring professional organizations, which are some things that must be done: (1) EMT Capacity Strengthening, Capacity & Training, (2) Timely activation, Coordination of EMT, (3) Clinical, Technical, Operational Minimum Standard and Best Practice, (4) Quality Assurance, Classification, (5) Global/Regional Commitment & Partnership

Keywords: emergency response, disaster management, protocols.

Mycobacterium tuberculosis strains infection caused different level of apoptosis macrophage cells derived from pulmonary tuberculosis patients in Indonesia

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Introduction: *Mycobacterium tuberculosis* (MTB) is the causative agent of human tuberculosis and facultative intracellular pathogen of macrophage cells. Apoptosis macrophage plays a critical role for the host defence to resist MTB infection. The Beijing strain of MTB is regarded as "hypervirulent" due to its ability to inhibit apoptosis macrophage, expand the infection and disease of tuberculosis.

Methods: Active pulmonary tuberculosis patients were diagnosed based on AFB sputum smear, gene Xpert MTB/RIF, and chest X-ray. Bronchoalveolar-lavage was performed to specify specimens and identify MTB strain using RD9 and TbD1 primers by PCR methods, respectively. Detection of MTB strain by genome sequencing and DNA homology analysis can lie performed with BLAST programs. Apoptosis level was measured by TUNEL assay methods.

Results: MTB strain were detected in all patients in which 24 and 6 isolates and classified as the hypervirulent homologous of Beijing strains and 6 isolates of the *Mycobacterium bovis* BCG homologous strain, respectively. Apoptosis level detected decrease in macrophage cells derived from patients with hypervirulent homologous of Beijing strains infection compared with *Mycobacterium bovis* strain infection (p <0.05)

Conclusion: A homologous Beijing strain and *Mycobacterium bovis* strain were detected among pulmonary TB patients in Indonesia. A hypervirulent strain infections have a great ability to inhibit apoptosis of macrophage cells in human. Therefore, laboratory test to determine MTB strains should be integrated in National Tuberculosis Control Program in the country.

Keywords: pulmonary tuberculosis, MTB strain, bronchoalveolar lavage, apoptosis macrophage

The effectiveness of dextrose prolotherapy on functional outcome in frozen shoulder patients in the pain clinic of Dr. Zainoel Abidin General Hospital

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Introduction: Frozen shoulder is a severe shoulder pain condition that persists more than 3 months and accompanied by gradually progressive stiffness. Its incidence is 2-5% in general population. Dextrose prolotherapy is a regenerative injection therapy that can initiate inflammation, increase proliferation of fibroblast and induce collagen tissue synthesis and tissue healing, in order to improve functional outcomes. This study aimed to assess the effectiveness of dextrose prolotherapy on functional outcome of patients with a frozen shoulder in the pain clinic of Zainoel Abidin General Hospital, Banda Aceh.

Methods: This study used one group pretest and posttest design. A non-probability sampling was used with a total sample of 40 patients. Data were

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