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PROCEEDINGS

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Solo Western Premier Hotel
Solo, Indonesia
October 23-24, 2019



THEME:

Strengthening Hospital Competitiveness
to Improve Patient Satisfaction and
Better Health Outcomes

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[The 6th ICPH] [Abstract] Topic I: Epidemiology and Public Health

- [Factors Associated with Obesity among High School Students in Surakarta, Central Java](#)

Rita Setyaningsih1), Yulia Lanti Retno Dewi2), Rita Benya Adriani3) (Author)	
https://doi.org/10.26911/the6thicph.01.48	
Page: 71	PDF

- [The Associations between Residence, Employment, Smoking, Fish Consumption, and The Risk of Asthma in Indonesia](#)

Dewi Shinta1), Vitri Widyaningsih2) (Author)	
https://doi.org/10.26911/the6thicph.01.41	
Page: 64	PDF

- [Determinants of Quality of Life of the Elderly with Dementia: A Systematic Review](#)

Annisa Nur Fauziyah, Bhisma Murti (Author)	
https://doi.org/10.26911/the6thicph.01.40	
Page: 63	PDF

- [Psychological and Social Determinants of HIV Infection: Path Analysis Evidence from Jepara, Central Java](#)

Ita Fijanah Puspita1), Uki Retno Budihastuti2), Vitri Widyaningsih3) (Author)	
https://doi.org/10.26911/the6thicph.01.42	
Page: 65	PDF

- [A Systematic Review: Determinants of Quality of Life People with Physical Disability](#)

Iffah Nurhayati1), Bhisma Murti1), Rita Benya2) (Author)	
https://doi.org/10.26911/the6thicph.01.50	
Page: 73	PDF

- [The Effect of Hypercholesterol Herbs Formula on the Quality of Life](#)

Agus Triyono1), Setyo Sri Rahardjo2), Fajar Novianto3) (Author)	
https://doi.org/10.26911/the6thicph.01.49	
Page: 72	PDF

- [Relationship between Environmental Factors and Personal Hygiene with Diarrhea among Children Under Five in West Kotawaringin, Central Kalimantan](#)

Dortua Lince Sidabalok1), Samsudin2), I Made Djaja3) (Author)
https://doi.org/10.26911/the6thicph.01.17
Page: 40 PDF

- [Spatial Analysis of the Distribution and Transmission of Clinical Scabies](#)

Yudhi Wibowo1), Nendyah Roestijawati1), Dyah Krisnansari1), Agoes Y Purnomo2) (Author)
https://doi.org/10.26911/the6thicph.01.16
Page: 39 PDF

- [The Association between Personal Hygiene and Egg Positive Rate of Enterobius Vermicularis among Primary School Children](#)

Ratna Muliawati, Mushidah, Siti Musyarofah (Author)
https://doi.org/10.26911/the6thicph.01.15
Page: 38 PDF

- [Risk Factors of Rheumatic Disease in Indonesia Based on the Indonesian Family Life Survey 5 Year 2014](#)

Eka Miftakhul Jannah1), Vitri Widyaningsih2) (Author)
https://doi.org/10.26911/the6thicph.01.39
Page: 62 PDF

- [Associations between Iodine Intake, Urinary Iodine Excretion, and Learning Achievement among Elementary Students Aged 6-12 Years](#)

Romiza Arika1), Sapja Anantanyu2), Yulia Lanti Retno Dewi3) (Author)
https://doi.org/10.26911/the6thicph.01.47
Page: 70 PDF

- [The Prevalence and the Associations between Smoking, Cholesterol Level, and Hypertension: The Indonesia Family Life Survey Year 2014](#)

Maki Zamzam1), Vitri Widyaningsih2) (Author)
https://doi.org/10.26911/the6thicph.01.43
Page: 66 PDF

- [The Effect of Potassium Intake on the Quality of Life of Elderly](#)

Dian Ayu Ainun Nafies1), Diffah Hanim2), Suminah3) (Author)
https://doi.org/10.26911/the6thicph.01.46
Page: 69 PDF

- [Factors Associated with Stunting among Children 1 - 3 Years of Age in Batu City, East Java](#)

Juin Hadisuyitno, B. Doddy Riyadi (Author)
https://doi.org/10.26911/the6thicph.01.14
Page: 37 PDF

- [Predisposing Factors of Solid Medical Waste Management at Penyangga Perbatasan Betun Hospital, East Nusa Tenggara](#)

Marlince I. Ninef, Anderias Umbu Roga, Jacob Ratu (Author)
https://doi.org/10.26911/the6thicph.01.11
Page: 34 PDF

- [Effectiveness of Coagulant and Disinfectant on Water Treatment in East Nusa Tenggara](#)

Muhammad Ardiansyah Nurawi, Marylin Susanti Junias, Ketut Mahendra Kuswara (Author)
https://doi.org/10.26911/the6thicph.01.10
Page: 33 PDF

- [Conditions Contributing to Chronic Co-Morbidity of Tuberculosis: Evidence from Indonesian Family Life Survey 5 Year 2014](#)

Muvida1), Vitri Widyaningsih2) (Author)
https://doi.org/10.26911/the6thicph.01.38
Page: 61 PDF

- [Path Analysis on Factors Affecting Quality of Life of Patients with Knee Osteoarthritis](#)

Wika Yuniarwati1), Achmad Arman Subijanto2), Hanung Prasetya3) (Author)
https://doi.org/10.26911/the6thicph.01.37
Page: 60 PDF

- [Factors Associated with Risky Behavior for HIV/AIDS Transmission among Youth Organization in Depok, West Java](#)

Nunuk Nugrohowati1), Ria Maria Theresa2) (Author)
https://doi.org/10.26911/the6thicph.01.13
Page: 36 PDF

- [Socio-Demographic, Employment, and Injury Characteristics of Workers Involved in Road Traffic Crash](#)

Titi Rahmawati Hanedon, Nurrul Hafeezah binti Sahak, Kulanthayan KC Mani, Krishna Gopal Ranjith (Author)
--

https://doi.org/10.26911/the6thicph.01.66	
Page: 89	PDF

- [Socioeconomic Status and Gastrointestinal Infection in Developing Countries](#)

Albertus Maqnu Soesilo (Author)	
https://doi.org/10.26911/the6thicph.01.65	
Page: 88	PDF

- [Spatial Analysis and Risk Factors Modelling of Measles in Children Aged 0-59 Months in Kupang, East Nusa Tenggara](#)

Yulianti Marina Bale, Pius Weraman, Imelda F.E Manurung (Author)	
https://doi.org/10.26911/the6thicph.01.64	
Page: 87	PDF

- [Agreement, Sensitivity, and Specificity of Tuberculin Skin Test and T-Spot TB Examination, in Detecting Latent TB Infection among Health Care Workers](#)

Yusup Subagio Sutanto, Paulus Arka Triyoga, Harsini, Reviono, Indarto Sigit (Author)	
https://doi.org/10.26911/the6thicph.01.63	
Page: 86	PDF

- [Association between Parenting and Malnutrition in Children Under Five in Dili, Timor Leste](#)

Adriana Fonseca da Silva, Stefanus P. Manongga, Frans Umbu Datta (Author)	
https://doi.org/10.26911/the6thicph.01.52	
Page: 75	PDF

- [Obesity, Parity, and the Incidence of Cervical Cancer at Vina Estetika Hospital, Medan](#)

Hendrika A Silitonga ¹), Catherine Arrigo Saachie ²) (Author)	
https://doi.org/10.26911/the6thicph.01.51	
Page: 74	PDF

- [Associations between Smoking and Other Factors with Emotional Mental Disorders among Adolescents](#)

Nova Dwi Astuti ¹), Tri Yunis Miko Wahyono ²) (Author)	
https://doi.org/10.26911/the6thicph.01.32	
Page: 55	PDF

- [Host and Environment Influences on the Occurrence of Diarrhea in Children Under Five at Naioni Community Health Center, Kupang, East Nusa Tenggara](#)

Kurnia Bend Yunita Pellondou, Anderias Umbu Roga, Pius Weraman (Author)
https://doi.org/10.26911/the6thicph.01.31
Page: 54 PDF

- [Determinants of the Incidence of Dengue Hemorrhagic Fever in the Work Area of Kunciran Health Center, Tangerang, Banten](#)

Jumaina, Ascobat Gani (Author)
https://doi.org/DOI%20:%2010.26911/the6thicph.01.30
Page: 53 PDF

- [Determinants of Coronary Heart Disease among Outpatients in Kupang, East Nusa Tenggara](#)

Intje Picauly (Author)
https://doi.org/10.26911/the6thicph.01.03
Page: 26 PDF

- [The Association between Organophosphate Pesticide Exposure and Erythrocyte Sedimentation Rate among Farmers in Sumberejo Village, Magelang, Central Java](#)

Desi Putri Utami ¹), Onny Setiani ²), Hanan Lanang Dangiran ²), I Made Djaja ³) (Author)
https://doi.org/10.26911/the6thicph.01.02
Page: 25 PDF

- [Investigation of Food Poisoning Outbreak at Munjungan Wedding Party in Congkoak Village, Cirebon District, Indonesia](#)

Cecep Heriana ¹), Dwi Nasititi Isawarawanti ^{1, 2}), Tati Latifah ³), Asep Bambang Suhendar ³), Ad
https://doi.org/10.26911/the6thicph.01.54
Page: 77 PDF

- [Sorting and Recycling Effort as a Solid Waste Management Solution an Hospital](#)

Warouw Sonny ^{1, 2}), Nurali Imran ¹), Nevawan Iwan ¹), Suryati Tati ³), Purba Ivan ²) (Author)
https://doi.org/10.26911/the6thicph.01.60
Page: 83 PDF

- [Agreement, Sensitivity, and Specificity of Tuberculin Skin Test and T-Spot TB Examination, in Detecting Latent TB Infection among Patients with Diabetes Mellitus](#)

Nur Amalia Santang ¹), Pribadi M Sebayang ¹), Reviono ¹), Supriyanto Kartodarsono ²), Yusup Suk
https://doi.org/10.26911/the6thicph.01.59

	Page: 82	PDF
•	Factors Associated with Household Waste Management in Nelayan Indah Subdistrict, Medan, North Sumatera	
	Linda Hernike Napitupulu1), Vivi Eulis Diana2), Veronica Anggreni Damanik3), Agnes Ferusgel G (Author)	
	https://doi.org/10.26911/the6thicph.01.58	
	Page: 81	PDF
•	Path Analysis on the Determinants of Diabetic Peripheral Neuropathy among Patients with Type 2 Diabetes Mellitus in Surakarta, Central Java	
	Akhmad Azmiardi1), Didik Tamtomo2), Bhisma Murti2) (Author)	
	https://doi.org/10.26911/the6thicph.01.68	
	Page: 91	PDF
•	Association between Self Efficacy and Myth with Pulmonary Tuberculosis in Centro Saude Becora and Gleno in Timor Leste	
	Joaninha C. de Jesus, Anderias Umbu Roga, Jacob M. Ratu (Author)	
	https://doi.org/10.26911/the6thicph.01.57	
	Page: 80	PDF
•	Family Empowerment Model in the Prevention of Type II Diabetes Mellitus at Kalipare, Malang, East Java	
	Fiashriel Lundy (Author)	
	https://doi.org/10.26911/the6thicph.01.56	
	Page: 79	PDF
•	The Relationship between Behavioral and Environmental Factors with the Incidence of Malaria at Elopada Health Center, South-East Sumba, East Nusa Tenggara	
	Marni Tangkelangi, Wilhelmus Olin (Author)	
	https://doi.org/10.26911/the6thicph.01.62	
	Page: 85	PDF
•	Risk Factors of Diarrhea Incidence in Children Aged 6-24 Months at Mangulewa and Koeloda Community Health Centers, Ngada, Kupang, East Nusa Tenggara	
	Dafrosa Luni, Imelda Febuati Ester Manurung, Mareta Bakale Bakoil, Marylin Susanti Junias, Sa	
	https://doi.org/10.26911/the6thicph.01.09	
	Page: 32	PDF

- [Factors Associated the Occurance of Hypertension in High School Students](#)

Mayasari Kurnianingsih1), Yulia Lanti Retno Dewi2), Eti Poncorini Pamungkasari2) (Author)
https://doi.org/10.26911/the6thicph.01.06
Page: 29 PDF

- [Biological, Social Economic, and Environmental Determinants of Child Pneumonia after Earthquake: An Evidence from West Nusa Tenggara](#)

Nur Isniani Ningsih1), Harsono Salimo2), Setyo Sri Rahardjo3) (Author)
https://doi.org/10.26911/the6thicph.01.04
Page: 27 PDF

- [Effect of Hypertension on Cognitive Function Disorder among the Elderly in Medan, North Sumatera](#)

Mayang Sari Ayu1), Faisal Balatif1), Mahdiah2), Meri Susanti3), Dewi Pangestuti4), Makmur Sin
https://doi.org/10.26911/the6thicph.01.01
Page: 24 PDF

- [Psychological and Social Factors Affecting the Risk of HIV Infection in Jepara, Central Java](#)

Ita Fijanah Puspita1), Uki Retno Budihastuti2), Vitri Widyaningsih3) (Author)
https://doi.org/10.26911/the6thicph.01.05
Page: 28 PDF

- [Meta-Analysis on the Effect of Probiotics on Reducing Diarrhea Episode in Children Under Five](#)

Purwika Widayati1), Setyo Sri Rahardjo2), Vitri Widyaningsih2) (Author)
https://doi.org/10.26911/the6thicph.01.36
Page: 59 PDF

- [Effectiveness of Chronic Disease Control Club on Blood Sugar Level Control in Sukoharjo, Central Java](#)

Fajar Alam Putra1), Dono Indarto2), Ruben Dharmawan2) (Author)
https://doi.org/10.26911/the6thicph.01.08
Page: 31 PDF

- [Biological and Social Economic Factors Affecting Treatment Complaint and Cure among Tuberculosis Patients in Yogyakarta](#)

Tri Godha Fitriani1), Setyo Sri Rahardjo2), Hanung Prasetya3) (Author)
--

https://doi.org/10.26911/the6thicph.01.07	
Page: 30	PDF

- [Risk Factors of Cervical Cancer in Patients at the Oncology Polyclinic, Prof. Dr Wz Johannes Hospital, Kupang](#)

Agnes Taran Pira (Author)	
https://doi.org/10.26911/the6thicph.01.53	
Page: 76	PDF

- [Association between Environmental Factors and Tuberculosis among Children Aged 0-14 Years in Kupang, East Nusa Tenggara](#)

Merina Regifana Loak, Imelda F.E. Manurung, Jacob M. Ratu Pius Weraman, Anderias Umbu Ro	
https://doi.org/10.26911/the6thicph.01.12	
Page: 35	PDF

- [Opportunity of Mobile Telemedicine Technology for Cervical Cancer Screening in Developing Countries: A Systematic Review](#)

Rizka Arviliana ¹), Atfiana Nur Afifah ¹), Tris Eryando ²) (Author)	
https://doi.org/10.26911/the6thicph.01.69	
Page: 92	PDF

- [Prevalence and Risk Factors of Hypertension among Adolescents Aged 18 to 21 Years in Indonesia](#)

Lydia Gresari Br Sembiring, Diah Mulyawati Utari (Author)	
https://doi.org/10.26911/the6thicph.01.67	
Page: 90	PDF

- [Factors Affecting the Incidence of Acute Respiratory Tract Infection in Children Under Five at Betungan Community Health Center, Bengkulu](#)

Eka Triana, Rachmadhi Purwana (Author)	
https://doi.org/10.26911/the6thicph.01.28	
Page: 51	PDF

- [Sodium Consumption and Obesity as Risk Factors of Hypertension among Coastal Communities in North Minahasa, North Sulawesi](#)

Grace Debbie Kandou, Budi Tarmady Ratag, Priscilla Caroline Kandou (Author)	
https://doi.org/10.26911/the6thicph.01.29	
Page: 52	PDF

- [Contents and Waste Handling of Green Shell Skin in Cilincing, North Jakarta](#)

Tjipto Rini (Author)
https://doi.org/10.26911/the6thicph.01.61
Page: 84 PDF

- [Effect of Noise Exposure and Use of Ear Protection Equipment on Hearing Impairment among Stone Cutting Workers in Cirebon, West Java](#)

Dewi Laelatul Badriah1), Fitri Kurnia Rahim2) (Author)
https://doi.org/10.26911/the6thicph.01.27
Page: 50 PDF

- [Evaluation of the Waste Disposal Prohibition Policy in Brantas River, Kediri, East Java](#)

Reny Nugraheni, Vivien Dwi Purnamasari, Nadia Maida Istnaini (Author)
https://doi.org/10.26911/the6thicph.01.34
Page: 57 PDF

- [Evaluation of Inputs in Surveillance System of Suspect Tuberculosis Case Finding at Community Health Centers, Palu, Central Sulawesi](#)

Putri Intan Purnamasari1), Ascobat Gani1), Yuyun Yulianti2), Muh. Ryman Napirah2) (Author)
https://doi.org/10.26911/the6thicph.01.33
Page: 56 PDF

- [Relationship between Unsafe Action and Condition with Work Accident among Production Unit Workers at the Jaya Sentrikon Indonesia Company, Padang, West Sumatra](#)

Devina Lenggo Putri1), Sumihardi2), Asep Irfan2), I Made Djaja1) (Author)
https://doi.org/10.26911/the6thicph.01.26
Page: 49 PDF

- [Management of Medical Waste in Developing Countries: A Systematic Review](#)

Asriyanti Bandaso, Dumilah Ayuningtyas (Author)
https://doi.org/10.26911/the6thicph.01.25
Page: 48 PDF

- [Use of Geographic Information System for Dengue Hemorrhagic Fever Outbreak Mapping in North Sulawesi](#)

Miranda Senduk, Angela Fitriani Clementine Kalesaran (Author)
https://doi.org/10.26911/the6thicph.01.24
Page: 47 PDF

- [Association between Playing Gadget and the Risk of Overweight in Children Under Five](#)

Santy Irene Putri (Author)
https://doi.org/10.26911/the6thicph.01.23
Page: 46 PDF

- [Environmental Sanitation, Family Income, and other Factors Associated with Stunting in Children Under Five in Klaten, Central Java](#)

Anna Mariyana1), Yulia Lanti Retno Dewi2), Setyo Sri Rahadjo2) (Author)
https://doi.org/DOI%20:%2010.26911/the6thicph.01.35
Page: 58 PDF

- [PM10 Exposure and Respiratory Tract Disorders around the Industry: A Systematic Review](#)

Lilian Susanti Nova (Author)
https://doi.org/10.26911/the6thicph.01.22
Page: 45 PDF

- [Risk Factors of Breast Cancer in South-East Asia: A Systematic Review](#)

Hindun Rahim (Author)
https://doi.org/10.26911/the6thicph.01.21
Page: 44 PDF

- [Family Role in Elderly Care: A Systematic Review](#)

Guriti, Ismarwanti, Sri Ratna Ningsih (Author)
https://doi.org/10.26911/the6thicph.01.20
Page: 43 PDF

- [Factors Associated with Diabetic Peripheral Neuropathy among Patients with Type 2 Diabetes Mellitus in Surakarta, Central Java](#)

Akhmad Azmiardi1), Didik Tamtomo2), Bhisma Murti1) (Author)
https://doi.org/10.26911/the6thicph.01.44
Page: 67 PDF

- [Effect of Work Environment on the Risk of Breast Cancer in Indonesia](#)

Ika Dharmayanti, Dwi Hapsari Tjandrarini (Author)
https://doi.org/10.26911/the6thicph.01.19
Page: 42 PDF

- [Dental and Oral Care to Reduce the Incidence of Ventilator Associated Pneumonia among Patients with Ventilator in Intensive Care Unit: A Systematic Review](#)

Fiki Kusumasari, Anhari Achadi (Author)
https://doi.org/10.26911/the6thicph.01.18
Page: 41 PDF

- [Perception and Readiness of Health Workers in the Implementation of the Collaborative TB-DM Program at the Community Health Center in Semarang](#)

Dea Amarilisa Adespin, Hari Peni Julianti, Aras Utami, Diah Rahayu Wulandari, Arwinda Nugraha
https://doi.org/10.26911/the6thicph.01.55
Page: 78 PDF

INVESTIGATION OF FOOD POISONING OUTBREAK AT MUNJUNGAN WEDDING PARTY IN CONGKOAK VILLAGE, CIREBON DISTRICT, INDONESIA

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ABSTRACT

Background: Outbreak incident was reported by Plumbon Health Center Staff to Cirebon District Health Office. Two cases were reported with symptom of diarrhea, stomachache and weak due to dehydration after consumed foods provided in the wedding party. This study aimed to describe the investigation results including the possible cause of the outbreak occurred in the party.

Subjects and Method: An observational study with cohort retrospective design was conducted in Cangkoak village, Dukupuntang Sub-district, Cirebon District, West Java, on 27 December 2018. The independent variable was the consumption of *Bistik daging sapi*, *sambal goreng*, *botok roti*, *kentang mustopa*, *ikan goreng*, *sayur tahu*, and *telur asin*. The dependent variables were clinical symptoms of diarrhea, heartburn, and weakness. A total sample of 60 visitors was selected for this study. All the visitors were interviewed by investigation team from District Health Office of Cirebon and Health Center of Plumbon using structured questionnaires. Attack rate (AR) and relative risk (RR) were analyzed to estimate the possible source of the incident.

Results: The visitors' age were 15 to 44 years. Number of cases were 29. Symptoms were developed 5 to 16 hours with average of 11 hours after consumed the food prepared in the party. Foods were cooked one day prior to the wedding party in unhygienic open area and then reheated before given to the visitors. The consumption of *Bistik daging sapi* (AR=64.1; RR=2.44; 95%CI=0.94 to 6.30; p=0.450), *sambal goreng* (AR=56.2; RR=1.27; 95%CI=0.68 to 2.37; p=0.440), *botok roti* (AR=57.14; RR=1.21; 95%CI=0.48 to 2.64; p=0.768), *kentang mustopa* (AR=33.30; RR=0.75; 95%CI=0.21 to 2.58; p=0.640), *ikan goreng* (AR=23.81; RR=0.50; 95%CI=0.21 to 1.17; p=0.110), *sayur tahu* (AR=33.30; RR=0.71; 95%CI=0.35 to 1.47; p=0.340), and *telur asin* (AR=7.69; RR=0.19; 95%CI=0.02 to 1.29; p=0.080) increased the possibility of food poisoning outbreak.

Conclusion: The consumption of *Bistik daging sapi*, *sambal goreng*, *botok roti*, *kentang mustopa*, *ikan goreng*, *sayur tahu*, and *telur asin* increasing the possibility of food poisoning outbreak, but they were not statistically significant.

Keywords: Outbreak, food poisoning, wedding party/*Munjungan*, Cirebon

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