









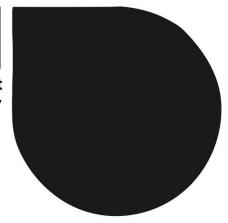








"Nurses at The Forefront Transforming care, Science, and Research" Surabaya, April 7th - 8th 2018





The 9th INC 2018

Published by Faculty of Nursing Universitas Airlangga

THE PROCEEDING OF

THE 9TH INTERNATIONAL NURSING CONFERENCE 2018 "NURSES AT THE FOREFRONT IN TRANSFORMING CARE, SCIENCE, AND RESEARCH"



FACULTY OF NURSING UNIVERSITAS AIRLANGGA 2018 The Proceeding of 9th International Nursing Conference: Nurses at The Forefront in Transforming Care, Science, and research

Fakultas Keperawatan Universitas Airlangga



Hak Cipta © 2018, Fakultas Keperawatan Universitas Airlangga Surabaya Kampus C Mulyorejo Surabaya 60115

Telp.: (031)5913754, 5913257

Faks.: (031)5913752

Website: http:/ners.inair.ac.id Email: dekan@fkp.unair.ac.id

Hak cipta dilindungi undang-undang. Dilarang memperbanyak sebagian atau seluruh isi buku ini dalam bentuk apa pun, baik secara elektronis maupun mekanis, termasuk tidak terbatas pada memfotokopi, merekam, atau dengan menggunakan system penyimpanan lainnya, tanpa izin tertulis dari Penerbit.

UNDANG-UNDANG NOMOR 19 TAHUN 2002 TENTANG HAK CIPTA

- Barangsiapa dengan sengaja dan tanpa hak mengumumkan atau memperbanyak sutu Ciptaan atau memberi izin untuk itu, dipidana dengan pidana penjara paling lama 7 (tujuh) tahun dan/atau denda paling banyak Rp. 5.000.000.000,00 (lima miliar rupiah)
- 2. Barangsiapa dengan sengaja menyiarkan, memamerkan, mengedarkan, atau menjual kepada umum suatu Ciptaan atau barang hasil pelanggaran Hak Cipta atau Hak Terkait sebagaimana dimaksud diatas, dipidana dengan pidana penjara paling lama 5 (lima) tahun dan/atau denda paling banyak Rp 500.000.000,00 (lima ratus juta rupiah).

Penerbit: Fakultas Keperawatan Universitas Airlangga

The Proceeding of 9th International Nursing Conference: Nurses at The Forefront in Transforming Care, Science, and research

433 hlm, 21 x 29,7 cm

ISSN: 1413536244

CONTENT

Different Of Asthma Control Level In Suburban And Urban Areas
The Influence Of Age And Coping Mechanism On The Resilience Of Cancer Patients Undergo Chemotherapy
Effectiveness Of Mirror Therapy Against Upper Limb Muscle Strength In Ischemic Stroke Patients With Hemiparesis: Systematic Review
Nurse Performance Analysis Based On Gibson Performance Theory On Voluntary Nurse In Sampang Regency Community Health Center
Model Of Reward System Development Based On Performance Of Nurse Working Satisfaction47
Nursing Discharge Planning For Patient With Diabetes Mellitus
Effect Of Diaphragm Breathing Exercise And Electric Fan To Dyspnea, And Pulmonary Function In Clients Copd; A Systematic Review
Factors That Affect The Cognitive Function In Elderly
At Jetak Public Health Center Of Tuban Regency
Patient Between Satisfaction Related With Patient Loyalty
Effect Of Health Education Methods Against Sorogan Intention In The Theory Of Planned Behavior In Santri Nurul Jadid
Description Of Adherence Of Diabetes Mellitus Type 2 Patient At Universitas Airlangga Hospital71
Foot Massage To Treat Pain In Patients Post Laparatomy Surgery
A Systematic Review Of The Predictors Of Perceived Autonomy By Patient With Chronic Kidney Disease
Emotional Freedom Technique (Eft) For Physiological Symptoms, Pain, Anxiety Disorders And Depression: A Systematic Review
Effect Of Pursed Lips Breathing For Peak Expiratory Flow Rate, Oxygen Saturation, Dynamic Hyperinflation: Systematic Review
Description Of Coping On Tuberculosis Patient In Community Health Center (Puskesmas) In Jember
Effect Of Pursed Lips Breathing And Distract Auditory Stimuli Against Dyspnea97
Evaluation Of Discharge Planning Implementation In Pamekasan Hospital100
Systematic Review Knowledge, Attitude And Smoking Practice On Adolescent
Effects Of Electrical Stimulation On Swallowing Function In Stroke Patients With Dysphagia: A Systematic Review
The Effectiveness Of Deep Breathing Relaxation Technique And Guided Imagery To Decrease Pair Intensity On Postoperative Fracture Patients In Bougenvile Ward Of Dr Soegiri Hospital Lamongar
Telenursing Using Mobile Phone Features For Medication Adherence Tuberculosis Patients: A Systematic Review
The Effect Of Resistance Exercise On Blood Glucose And Hba1c Of Patient With Type 2 Diabetes Mellitus: Systematic Review
Management Of Adjunctive Therapy On Diabetic Foot Ulcers: A Systematic Review
Efectivity Clinical Supervision In Integrated Patient Development Records Of Compliance And Nursing Performance: Systematic Review

The Effectiveness Of Telemonitoring In Treatment Adherence Cardiovascular Disease: A Systematic Review148
Yoga As An Alternative And Complementary Approach For Controlling Type 2 Diabetes Mellitus : A Systematic Review
Factors Related To Decubitus In Patient With Bed Rest And Physical Immobilization : A Systematic Review166
Job Satisfaction In Nurses Perspective, Its Antecedent And Its Outcome A Systematic Review171
Information Technology Helps Self-Management Among Chronic Kidney Disease (Ckd) Patients174
The Effectiveness Of Diabetes Self-Management Education: A Systematic Review178
Effect Of Isoflavones On Hot Flushes Women Menopause: A Systematic Review186
The Use Of Negative Pressure Wound Therapy For Treatment Surgical Wound Arthroplasty A Systematic Review194
Comparative Effectiveness Of Internet Cognitive Behavioral Therapy For Insomnia (Icbt-I) With And Without Therapist Support: Systematic Review201
The Effect Of Music Therapy For Elderly With Dementia: A Systematic Review Music Therapy For Elderly With Dementia206
Analysis Of Patient Dependence Level Based On Triage Classification214
Evaluation Intervention In Improving Breastfeeding Self Efficacy: A Systematic Review217
The Effect Of Prenatal Yoga On Mental Health In Pregnant Women: A Systematic Review221
Regulation Of Blood Sugar Through Psycological Control To Type-2 Dm: A Systematic Review227
Pressure Ulcer Prevention With Application Of Silicone Foam Dressing In Intensive Care Unit: A Systematic Review232
Relaxation Techniques For Patients With Chronic Obstructive Pulmonary Disease (Copd): A Systematic Review237
The Multivariants Of Physical Activity For Cognitive Impairment Among Elderly: A Systematic Review243
The Effectiveness Of Cognitive Behavioral Therapy (Cbt) For Chronic Schizophrenia Patiens: A Systematic Review
The Efficacy Of Stabilization Exercises For Chronic Low Back Pain: A Systematic Review256
Correlation Of Coping Mechanisms Towards Fulfillment Capabilities Daily Activities Of Elderly 260
Neglect Elderly In Family: A Systematic Review264
Patient Satisfaction Using Health Insurance To Nurse Communication268
Efficacy Of The Ginger On Chemotherapy-Induced Nausea And Vomiting (Cinv): A Systematic Review
The Effect Of Psychoeducation On Family Functions In Treating Schizophrenia Patients In Home: Systematic Review
Job Satisfaction On Nursing Staff At Hospital: A Systematic Review289
Shenmen, Neiguan And Yongquan Acupoints To Improving Sleep Quality Of Hemodialysis Patients: Systematic Review292
Application Of Cognitive Therapy And Thought Stopping Therapy In Clients With Depression: Systematic Review
Effectiveness Of Therapeutic Non-Operative Management Of Wound Healing In Diabetic Foot Ulcer: A Systematic Review

Effect Of Progressive Muscle Relaxation Techniques To Blood Glucose Levels On Patients With Type 2 Diabetes Melitus; Systematic Review311
Description Of Factors Affecting Anxiety On End Stage Renal Disease Patients Which The Hemodialysis At Lavalette Hospital In Malang
The Use Aromatherapy For Symptom Management In Hemodialysis: A Systematic Review323
The Correlation Between Nursing Therapeutic Communication With Patient Satisfaction335
Cervical Cancer Screening Barriers Among Women In Developing Countries: A Systematic Review339
Preceptorship Program To The Achievement Of New Nursing Competency: Systematic Review346
Parenting The Teen: A Review Of Parents' Role In Preventing Problematic Behavior Of Adolescent
The Development Of The Uks Holistic Program In Preventing Aggressive Behavior And Low Self Esteem In Elementary School
Preparatory Intervention To Reduce Anxiety In Patient Who Will Undergo Endoscopy: A Systematic Review362
Differences In The Level Of Knowledge After Health Education On The Handling Of Dysmenorrhoea In Teenager Women In Smp Muhammadiyah 4 Surabaya366
The Effectiveness Of Slow Deep Breathing To Decrease Blood Pressure In Hypertension: A Systematic Review
Effectiveness Social Skills Training With Peers Programs For Individuals Autism Spectrum Disorder: A Systematic Review
Caregiver Experiences Of Schizophrenia Patients With Self Care Deficit: A Systematic Review381
English For Nursing Strategies To Encourage Students Achievement In Speaking Skill387
Self-Management Education Program For Reduce Blood Glucose Type 2 Diabetes Mellitus: A Systematic Review390
Effect Of Oral Hygiene In Improving The Health Of Elderly People: A Systematic Review399
A Systematic Review Of Outcomes Of Self Management Education On Self Efficacy And Behavior In Cronic Disease
The Effect Of Psychoeducation On Family Functions In Treating Schizophrenia Patients In Home: Systematic Review407
Faster Learning Organization (Flo) Model In Developing Health Professional Skill In The Hospital 412
The Comparison Of Elderly Life Quality Index Of Urban And Coastal Societies In Surabaya423
Zea Mays L To The Decreasing Blood Glucose Levels In Animal Trial (Rat) With Diabetes Mellitus: Systematic Review428
Psychoeducation Family Patients Mental Disorders (A Systematic Review)
Influence Of Nursing Information Management System Applications Based On Information Technology Toward Nursery Knowledge About Child Nursing Management In Lavalette Hospital Room Malang
Prevalence of Burnout Syndrome in Nursing: A Systematic Review450
The Mook-Up Metode for Disaster Education on the of People Improvement and Attitude in Landslide Preparedness455
Effectivity Of Pursed-Lips Breathing To Decrease Respiration Rate (RR) in Patient with COPD: A Systematic Review461

Model Supervision Fair, Feedback, Follow Up Against Nurses Compliance in the Application of Prevention of Infection Control as Efforts to Reduce Flebitis Occurrence
Nurse Performance in Infection Prevention and Control in Hospital Pamekasan472
Is It True that CPR Fraction mostly Caused by Physical Fatigue?475
The Effect of Massage Therapy and Reflexology agains Level of Anxiety on Preoperative Patient 477
Effectiveness Of Standard Ora 1 Hygiene Standard Using Brush a nd Chlorhexcidine 0.12% To Decrease Associated Pneumonia In Intensive Care Unit: A Systematic Review485
Relationship of Working Stress with the Performance of ICU Nurse in Hospital Tk. II dr. Soepraoen Malang
Sensory Stimulation (Audio, Visual, and Affective) to Enhance The Level of Consciousness Among Brain Injury Patients
Chlorhexidine-Alcohol is Better Than Chlorhexidine and Povidone Iodine for Reducing Surgical Site Infection
The Effectiveness of Slow Deep Breathing to Decrease Blood Pressure in Hypertension: a Systematic Review
Effectiveness of Hyperbaric Oxygenation Therapy in the Management of Chronic Diabetic Foot Ulcers: a Systematic Review
How is the Effect of Peer Support on Type 2 Diabetes Mellitus Patients?511
Aromatherapy for The Management and Control Effect of Chemoterapy521
Self-Care Adherence Experience in Patient with Diabetes Mellitus Type 2: A Systematic Review530
The effectiveness of yoga on blood glucose and anxiety reduction in T2DM clients: A Systematic Review
Methods of Preventing Sexually Transmitted Disease (STD): a Systematic Review556
Effect of School-Based Interventions in the Prevention of Child and Adolescent Obsesity to Behavioral Health, Physical Activity, and Body Mass569
Evaluation The Effect of Child Health Care Center on Physical Activity of Children575
The of Mixing Oralit and Honey to Defecate Frequency in Children with Gastroenteritis in Balung 579
Faal Risk Prevention in Elderly with Physical Exercise : A Systematic Review582
Spirotif Relaxation Improve Anxiety and Sleep Quality in Elderly
The Hipertension Corelation with Ankle Brachial Index, and Anxiety Level in Elderly With Hipertension590
Aromatherapy as The Intervention of Anxiety: Systematic Review
Chronic Sorrow in the Elderly with the Loss of a Spouse
An Overview of Lenolines, Anxiety and Depression Level of Elderly Suspected Relocation Stress Syndrom
The effect of physical activity to decreased of dementia (mild,moderate and severe) in elderly: A Systematic Review613
Systematic Review Depression and Relationships to the Quality of Life of Menopause Women618
The Psychological Burden of Caregiver with a Family Members of Schizophrenia: A Systematic Review
The Effectiveness of CBT in Reducing Depression: a Systematic Review630
Effect of Play Therapy With Puzzle On The Level Concentrations of Mental Retardation Children In SLB C Ruhui Rahayu Samarinda

Effectiveness Psychoeducation Parenting Support for Stress Mother of Childern with Autism Spectrum Disorder: A Systematic Review
The Effectiveness of Community Mental Health Nursing (Cmhn) to Improve Mental Health in Community: A Systematic Review
Systematic Review On The Effectiveness of Music Therapy on Anxiety and Vital Signs of Patients with Mechanical Ventilation
Family And Counsellor Experience For Schizophrenic A Research Based On Community Health Mental Policy
Effectiveness of Family Psychoeducational to Improve Quality of Life Patients with Bipolar Disorder: A Systematic Review
Diabetes Self Management Education (Dsme) Through Calendar Media Increase of Foot Care Adherence of Type 2 Diabetes Mellitus (Dm) Clients
Correlations Between Age, Gender and Medical History to Colonization of Candida Albicans in Cerebrovaskular Accident Patients in Jombang666
Mindfulness-based on Eating Improving Dietetic Measure Outcomes: Systematic Review670
Role of Family Members in the Treatment of Tuberculosis Patients: A Systematic Review680

GREETING FROM STEERING COMMITTEE

Assalamualaikum Warahmatullahi Wabarakatuh

Honorable Rector of Universitas Airlangga Honorable Dean of Faculty of Nursing, Universitas Airlangga Honorable Head of Co-Host Institutions Distinguished Speakers and all Participants

Praise the presence of God Almighty, for his mercy so that Faculty of Nursing Airlangga University can organized The 9th International Nursing Conference 2018 "Nurses at The Forefront in Transforming Care, Science, and research". Welcome in Surabaya, City of Heroes Indonesia.

This international nursing conference is conducted by The Faculty of Nursing Universitas Airlangga with cooperation of two nursing schools throughout the nation. These institutions including, Poltekkes Kementerian Kesehatan Surakarta, and STIKES Hang Tuah Surabaya. Once more aims to elaborate with the aforementioned institutions and international universities through holding an international nursing conference. The international universities include: La trobe University (Australia), University of Collegue Cork (Irlandia), University of Malaya (Malaysia), and Naresuan University (Thailand).

Proceeding of this International Nursing Conference will be submitted to SCOPUS. The selected papers will be submit at Journal Ners and online ISSN proceeding.

Participants of this conference are lecturers, nurses, students both from clinical and educational setting, regional and overseas area.

Finally, I would like to thanks to all speakers, participants, and sponsors so that this conference can be held successfully.

Please enjoy the international conference, I hope we all have a wonderful time at the conference.

Wassalamualaikum Warahmatullahi Wabarakatuh

Steering Committee

OPENING REMARK FROM THE DEAN OF FACULTY OF NURSING

Assalamualaikum Warahmatullahi Wabarakatuh

Honorable Rector of Universitas Airlangga Distinguished speakers and all Participants

First of all, I would like to praises and thanks to God for the blessing and giving us the grace to be here in a good health and can hold this conference together. Secondly, it is a great privilege and honor for us to welcome every one and thank you very much for your participation and support for The 9th International Nursing Conference 2018 "Nurses at The Forefront in Transforming Care, Science, and research".

Research and education into practice is very important to enhance nursing competencies with nurse colleagues in the international sphere. Indonesia face problems such low frequency of nursing conference, number of researches, also international publications. This problem can hinder quality improvement of nursing services.

The demand of health care services including nursing care will increase continously not only the quality but also the affordability and the service coverage. Facing this society's demands, particularly in the field of nursing, we should make a change in various aspects such as in nursing education, nursing practice and nursing research. The science of nursing has philosophy and nursing paradigm that underlying the various aspects to improve professional in education, practice, and nursing research. As a science, nursing can grow continously through research and education.

The interaction among education, practice, and nursing research are interrelated and affect the development of science in nursing. Nursing practice has interactions with nursing education and research. Practice can be used as a source of nursing phenomena that occurs, so it can become a nursing model in accordance with the theory developed in education and has been proven through nursing research. In addition, nursing research become a substance of the development of nursing science, because of through nursing research may prove the theory which developed in education so it is useful and can be practiced in the health service. So, it can be concluded that education, nursing practice and research have interaction each other that cannot be separated.

Along with Universitas Airlangga vision to become a world class university and enter top World University Ranking, Faculty of Nursing, participates actively in reaching the vision. To achieve World Class University ranking, faculty needs to meet the standards of World's top Universities such as Academic reputation, employer reputation, publication, faculty standard ratio, international students and exchange. International Nursing Conference is one of the few strategies that have been implemented by the faculty to increase Publication standard.

Finally, I would like to thanks to all speakers, participants, and sponsorships that helped the success of this event. I hope that this conference having good contribution in increasing the quality of nursing and nursing care.

Please enjoy the international conference. I hope, we all have a wonderful time at the conference.

Wassalamualaikum Warahmatullahi Wabarakatuh

Prof. Dr. Nursalam, M.Nurs (Hons) Dean, Faculty of Nursing Universitas Airlangga

OPENING SPEECH FROM THE RECTOR OF UNIVERSITAS AIRLANGGA

Assalamu'alaikum wa-rahmatullahi wa-barakatuh. May the peace, mercy and blessings of Allah be upon you.

Alhamdulillah! Praise be to Allah, The Almighty for giving us the opportunity to gather here in The 9th International Nursing Conference 2018 "Nurses at The Forefront in Transforming Care, Science, and research". Let us also send *shalawat* and *salam* to our Prophet Muhammad SAW (Praise Be Upon Him): *Allaahumma shalli 'alaa Muhammad wa 'alaa aali Muhammad*. May Allah give mercy and blessings upon Him.

Ladies and gentlemen,

Nursing is a dynamic science and profession. It can be seen from the relentless efforts made to optimize either the scientific or practical aspects of Nursing. These efforts towards excellence are absolutely needed.

Innovations in providing nursing care are possible to be introduced through education, practice and research. In this regard, we believe that those innovations are from "new concepts" formulated in the field of Nursing to provide the best service. If we can do this, there will be more benefits we can get such as gaining reputation for nursing profession and the education institution.

Ladies and gentlemen,

Higher education of Nursing has a strategic role towards excellent healthcare service. Therefore, the education format should be ready anticipating any developments. This readiness is needed to accelerate the realization of "Healthy Global Citizen".

So, let us exploit these changes around us, and consider this improving healthcare service as our success towards welfare. Let us always be consistent to improve quality in the field of Nursing. This field of science is expected to respond and voice concern about all aspects of healthcare service development in any communities.

At this point, the organization of The 9th International Nursing Conference 2018 "Nurses at The Forefront in Transforming Care, Science, and Research" as the theme is important. We cannot deny that through the upgrade and transformation of Care Science by Research we will get valuable findings for Nursing science development.

In education, students' questions can start new discourses towards Nursing science development. In its practice, various problems and solutions found in the field will broaden the scientific scope of Nursing. In research, through this activity we are developing the science in a well-planned and scientific manner.

Therefore, let us use this wonderful occasion to present research findings, either from the education, practice and research. We believe that this event will take on the challenges in providing quality healthcare service in the society.

Ladies and gentlemen,

Finally, I would like to express my gratitude to the committee, all nursing education institutions, either domestic or overseas, for participating in this event, and other people contributing to make this event a success. May everything run well and every objective achieved. Have a great conference and workshop. Good luck!

Wassalamu'alaikum wa-rahmatullahi wa-barakatuh.

Rector of Universitas Airlangga, Prof. Dr. Moh. Nasih, SE., MT., Ak., CMA. NIP. 196508061992031002

COMMITEE OF INTERNATIONAL NURSING CONFERENCE FACULTY OF NURSING UNAIR TAHUN 2018

Patron : Rector Universitas Airlangga

Advisor : Prof. Dr. Nursalam, M.Nurs (Hons)

Dean of Faculty of Nursing, Universitas Airlangga

Steering Committee : Dr. Kusnanto, S.Kp., M.Kes.

Vice Dean 1, Faculty of Nursing, Universitas Airlangga Eka Mishbahatul Mar'ah Has., S.Kep., Ns., M.Kep. Vice Dean 2, Faculty of Nursing, Universitas Airlangga

Person in Charge : Dr. Ah. Yusuf, S.Kp., M.Kes.

Vice Dean 3, Faculty of Nursing, Universitas Airlangga

Chairperson : Dr. Esti Yunitasari, S.Kp.,M.Kes Secretary : Iqlima Dwi Kurnia, S.Kep. Ns.M.Kep Treasury : 1. Ilya Krisnana, S.Kep. Ns.M.Kep

2. Sri Agustianningsih, S.Sos

Publication, Indexing and Editor

: 1. Ferry Effendi, S.Kep., Ns., M.Sc., P.hD

2. University Task Force Team3. Dimas Dwi Arbi, S.Kom

4. Gading Ekapuja Aurizky, S.Kep.,Ns 5. Praba Diyan, S.Kep.,Ns.,M.Kep

6. Retnayu Pradanie, S.Kep.,Ns.,M.Kep 7. Lingga Curnia Dewi, S.Kep.,Ns.,M.Kep

8. Nadia Rohmatul, S.Kep., Ns., M.Kep

Scientific Team

: 1. Prof. Dr. Nursalam, M.Nurs (Hons)

2. Dr. Tintin Sukartini, S.Kp.M.Kes.

3. Dr. Joni Haryanto, S.Kp.M.Kes

4. Dr. Ah Yusuf, S.Kp., M.Kes

5. Dr. Kusnanto, S.Kp., M.Kes.

6. Dr. Esti Yunitasari, S.Kp., M.Kes

7. Dr. Retno Indarwati, S.Kep.Ns., M.Kep

8. Dr. Abu Bakar, S.Kep.Ns., M.Kep.Sp Kep MB

9. Dr. Makhfudli, S. Kep.Ns.,M.Ked.Trop

10. Dr. Hanik Endang Nihayati, S.Kep.Ns.,M,Kep

11. Ni Ketut Alit A, S.Kp.,M.Kes

12. Laily Hidayati, S.Kep. Ns.M.Kep

13. Elida Ulfiana, S.Kep. Ns.M.Kep

14. Harmayetty, S.Kp., M.Kes

Event Team : 1. Tiyas Kusumaningrum. S.Kep. Ns.M.Kep

2. Rista Fauziningtyas, S.Kep. Ns.M.Kep.

Public Relation and Documentation

: 1. Setho Hadisuyatmana, S.Kep. Ns.M.S

2. Ika Nur Pratiwi, S.Kep. Ns.M.Kep

3. Candra Panji A, S.Kep. Ns.M.Kep

4. Tsuwaibatul Islamiyah, S.Kep.Ns

The 9th International Nursing Conference 2018

Secretarial : 1. Dr. Andri Setiya Wahyudi, S.Kep.Ns.,M.Kep

2. Hakim Zulkarnain, S.Kep.Ns

3. Lingga Curnia Dewi, S.Kep.Ns.,M.Kep

4. Akhmad Tirmidzi, A.Md.Kep

Sponsorship : 1. Dr. Retno Indarwati., S.Kep. Ns.M.Kep

2. Erna Dwi Wahyuni, S.Kep. Ns.M.Kep

Transportation and Accomodation

: 1. Dr. Makhfudli, S.Kep., Ns., M.Ked. Trop

2. Aria Aulia, S.Kep., Ns., M.Kep.

3. Achmad Efendik4. Luthfi Rahman

Consumption : 1. Dr Hanik Endang N, S.Kep. Ns.M.Kep

2. Suyatik

Equipment : 1. Rahmad Affandi.,SE

2. Moch Anwari, S.Pd

3. Hakim Zulkarnain S.Kep. Ns.

4. Sodikin

TIME SCHEDULE

9TH INTERNATIONAL NURSING CONFERENCE

"Nurses at the Forefront Transforming Care, Science, and research" Surabaya, 7 – 8 April 2018 DAY 1, SATURDAY 7th April 2018

TIME	ACTIVITY	VENUE		
07.00 - 08.30	Open Registration			
08.30 - 08.45	Opening Remarks			
	Indonesia Raya: National Anthem			
	Hymne Airlangga			
08.45 - 09.15	- Welcoming Show (Traditional Dance): Sparkling			
	Surabaya			
	- Speech from Dean of The Faculty of Nursing,			
	Universitas Airlangga			
	- Speech from Rector Universitas Airlangga	Ballroom Isyaana		
	- Opening ceremony: Hit the Gong	Hotel Bumi		
	- Pray			
09.15 - 09.45	Keynote Speaker			
	Vice Rector I Universitas Airlangga			
	(Development of Nursing Faculty to Word Class			
	University)			
09.45 - 09.50	- Certificate Conferment & Giving Souvenir			
00.50 10.00	Coffee Ducels and Onewing Destay Duccentation			
$\frac{09.50 - 10.00}{10.00 - 10.20}$	Coffee Break and Opening Poster Presentation Speaker 1			
10.00 - 10.20	Dr. Muhammad <i>Hadi</i> , SKM., M.Kep (Universitas			
	Muhammadiyah Jakarta, Indonesia) "The Role of AINEC to Improve Quality of Nursing			
	The Role of ATNEC to Improve Quality of Nursing Through Education, Clinical Practice and Research"			
	Through Education, Clinical Fractice and Research			
10.20–10.40	Speaker 2			
10.20 10.40	Professor Lisa McKenna (La Trobe University,			
	Australia)			
	"Challenges in research publication in nursing"			
10.40 – 10.55	Speaker 3			
	Elsi Dwi Hapsari, B.N., M.S., D.S (Universitas Gajah	Ballroom Isyaana		
	Mada, Indonesia)	Hotel Bumi		
	"Improving Image of Nurses in Indonesia: Role of			
	INNA"			
10.55 – 11.15	Speaker 4			
	Dr. Aileen Burton (University College Cork, Ireland)			
	"Diabetes and psychological wellbeing: a neglected			
	aspect of care"			
11.15 – 11.45	Plenary Discussion			
	Conferment of certificates			
11.45 – 12.45	Poster Presentation 1			
	Pray Time & Lunch Break			
12.45 – 13.05	Speaker 5			
	Professor Eileen Savage (University College Cork,			
	Ireland)			
	"Online versus paper based screening for anxiety and	Ballroom Isyaana		
	depression in adults with cysticfibrosis in Ireland"	Hotel Bumi		
13.05 – 13.25	Speaker 6	110th Dullii		
	Dr. Bill McGuiness (La Trobe University, Australia)			
	"Evidenced based update on wound management"			
13.25 - 13.40	Speaker 7			

TIME	ACTIVITY	VENUE
121122	Yuni Sufyanti A, S.Kp., M.Kes (Universitas Airlangga,	VEITEE
	Indonesia)	
	"Family Centered Empowerment Model as a Effort to	
	Increase Family's Ability to Caring Children with	
	Leukemia"	
13.40 – 13.55	Speaker 8	
	Addi Mardi Harnanto, M.Nurs (Poltekes Kemenkes	
	Surakarta, Indonesia)	
	"The Effort to Improve the Competency and Softskill of	
	Disaster Preparedness Management for Graduates of	
	Nursing colleges in Indonesia"	
13.55 - 14.25	Plenary Discussion	
	Conferment of certificates	
14.25 - 14.45	Speaker 9	
	Assist. Prof. Dr. Supaporn naewbood (Naresuan	
	University, Thailand)	
	"The Role of Nurses in Palliative Care Program and	
14.45 15.05	Development"	
14.45 – 15.05	Speaker 11 Dr. Vimele A/B Remon (University Malaya, Malaysia)	
	Dr. Vimala A/P Ramoo (University Malaya, Malaysia) "Palliative Care in Intensive Care: Malaysian	
	Perspective"	
15.05 – 15.20	Speaker 12	
13.03 13.20	Dr. Retno Indarwati, S.Kep., Ns., M.Kep (Universitas	
	Airlangga, Indonesia)	
	"Peer Group Support Toward Stress Relocation Among	
	Elderly in Nursing Home"	
15.20 – 15.35	Speaker 13	
	Dya Sustrami, S.Kep., Ns., M.Kes. (STIKES Hang Tuah	
	Surabaya, Indonesia)	
	"The Comparation of Elderly life Quality index of	
	Urban and Coastal Societies in Surabaya"	Ballroom Isyaana
15.35 - 16.00	Plenary Discussion	Hotel Bumi
	Certificate Conferment	Hotel Builli
16.00 – 16.30	Coffee Break and Opening Poster Presentation	
16.30 – 16.50	Speaker 14	
	Dr. Sonia Reisenhofer (La Trobe University, Australia)	
	"Using the World Health Organisation (WHO)	
16.50 – 17.05	guidelines to support women exposed to violence" Speaker 15	
10.30 - 17.03	Dr. Abu Bakar, S.Kep., Ns., M.Kep., Sp. KMB	
	(Universitas Airlangga, Indonesia)	
	"Decreased Cortisol Coronary Heart Patient Who	
	Received Islamic Nursing Care: A pilot Study"	
17.05 - 17.20	Speaker 16	
	Dr. Mundakir, S.Kep., Ns., M.Kep (Universitas	
	Muhamaddiyah Surabaya, Indonesia)	
	"Strategy Model Faster Learning Organization (FLO)	
	as Improvement Effort a Holistic Nursing Services	
	Based on Modelling-Role Modelling Therapy (MRM)"	
17.20—17.50	Plenary Discussion	
	Certificate Conferment & Closing Day 1	

Comparison of Stress Level and Quality of Life in Elderly Who are Living with Chronic Illness in Bangkok and Surabaya

Ni Putu Wulan Purnama Sari¹ and Jintana Artsanthia²

¹Faculty of Nursing, Widya Mandala Catholic University Surabaya (WMCUS), Jl. Raya Kalisari Selatan 1, Pakuwon City, Surabaya, Indonesia

²Faculty of Nursing, Saint Louis College (SLC), 19 Sathorn Road, Yannawa, Bangkok, Thailand

Chronic Illness, Elderly, Quality of Life, Stress Level. Keywords:

Elderly with chronic illness, such as hypertension (HT) and diabetes mellitus (DM), was prone to stress that Abstract:

> potentially decrease quality of life (QOL). This study aimed to compare and analyze the differences of stress level and QOL in hypertensive and/or diabetic elderly between Bangkok and Surabaya. This cross-sectional study involved 100 and 96 elderly with HT and/or DM in communities of Bangkok and Surabaya respectively (n=196). There were 60 DM, 68 HT, and 68 DM&HT cases compiled from both sites. Instrument used were SPST-20 and WHOQOL-BREF. Independent sample T test and Kolmogorov-Smirnov Z test were used for data analysis (α=.05). There were 6% and 0% mild stress, 64% and 29.17% moderate stress, 24% and 67.71% high stress, 6% and 3.13% severe stress were found in Bangkok and Surabaya respectively. Stress level was differ significantly between Bangkok and Surabaya (p=.000). Coping strategy tends to be more adaptive in Bangkok. There were 25% and 0% poor QOL, 52% and 91.67% moderate QOL, 23% and 8.33% good QOL were found in Bangkok and Surabaya respectively.

> QOL was also differ significantly between Bangkok and Surabaya (p=.000). Elderly in Surabaya had higher stress level, but elderly in Bangkok had lower QOL.

BACKGROUND

Non-communicable disease (NCD) or chronic diseases are not passed from person to person. They are of long duration and generally slow progression. The four main types of NCD are cardiovascular disease (e.g. hypertension/HT), cancer, chronic respiratory disease, and diabetes mellitus (DM). 80% of all NCD deaths occur in low- and middleincome countries. Almost three quarters of NCD deaths - 28 million - occur in low- and middleincome countries. 16 million NCD deaths occur before the age of 70; 82% of these "premature" deaths occurred in low- and middle-income countries (WHO, 2015).

In Thailand, the burden of disease is gradually shifting from communicable diseases to NCD, injuries, and mental illness. Greatest public health benefits are gained through prevention of NCD (particularly cardiovascular disease, cancer, and DM), injuries, and mental health disorder. These benefits can be achieved if risk factors are identified and mitigated through appropriate interventions. If NCD and mental illnesses are detected at an early stage and appropriate controls initiated, their severity can be significantly reduced. The burden of NCD usually falls disproportionately on the lower socio-economic groups who often face higher exposure to risk factors and have limited access to health services. Diseases such as DM, cancer, and cardio-vascular diseases are often not detected until they reach advanced levels (WHO Thailand, 2014). In response to the increasing impact of NCD, the Royal Thai Government has increasingly directed its attention on prevention and control initiatives. The Bureau of Non-Communicable Diseases responsible for NCD, injury prevention, tobacco and alcohol control programs. The Bureau has made steady progress in monitoring the burden of NCD and injuries in addition to identify major behavioural risk factors classified by province. The Bureau also plans to improve the collection and analysis of NCD and injury mortality and morbidity data. This is being done in efforts to monitor trends and evaluate the success of interventions. The Bureau of Policy and Strategy notes that due to the unreliability of incidence data for selected NCD, injuries, and

mental illnesses, cases of hospitalization with more accurate diagnosis are needed to ascertain trends as well as strengths/weaknesses of current programs.

In Indonesia, the burden of disease is gradually shifting from communicable diseases to NCD also. Over the past decades, Indonesia has made phenomenal progress. Per capita income has been increasing at a blistering pace, up to around \$3,000 per capita in 2010. At the same time, fertility has dropped dramatically, while life expectancy has increased steadily. From an individual perspective, these developments are clearly welcome. DM is of particular concern – by 2030, the number of people with DM will nearly double, from 7.6 million in 2013 to 11.8 million. With an annual growth in DM prevalence of 6%, this far exceeds the country's overall annual population growth rate (Blueprint for Change Program, 2013). The costs associated with NCD in Indonesia are substantial. According to our calculations. the five domains of NCD (cardiovascular disease, cancer, chronic obstructive pulmonary disease, DM, and mental illness) will cost Indonesia \$4.47 trillion (or \$17,863 per capita) from 2012 to 2030 (data for total health expenditure is obtained from the Global Health Expenditure Database (GHED) of WHO, updated in 2014).

Not only because of adjustment to the new role as an elderly in the family and age-related physical changes, elderly with NCD are also get stressors from the disease burden, such as disturbing signs and symptoms, diet restriction, continuous physical exercise requirement, etc. Chronic illnesses or NCD can create stress in elders, both physically and psychologically. Apart from impairing physical and mental health, chronic illnesses may also have negative impact on occupational and social functioning and thus affecting the quality of life (QOL). Positive thinking and an optimistic attitude are needed to increase the compliance to treatment regime and can motivate them to adjust their lifestyle (e.g. quit smoking and alcohol use, giving up fatty foods), thus help to promote healthy living

This study aimed to compare and analyze the differences of stress level and QOL in elderly who are living with chronic illness especially HT and/or DM between Bangkok and Surabaya.

2 METHODS

This was a comparative study involving 196 elderly with Diabetes Mellitus (DM) and/or Hypertension (HT) in communities in Surabaya and Bangkok. There were 96 and 100 cases compiled from

Surabaya and Bangkok respectively. Sample distribution between 2 sites is presented in Table 1.

Sample was chose by criteria then totally included in the study (total sampling). Inclusion criteria consist of (1) elderly who are willing to participate in the study, and (2) consume medication from medical doctor to treat the disease. Exclusion criteria were cannot communicate using Pasa Thai or Bahasa Indonesia.

Instrument used were valid and reliable questionnaire. SPST-20 was used to measure stress level (IOC=.78; Cronbach's Alpha=.94). It consisted of 20 items assessed in Likert scale format: 1 = no stress, 2 = mild stress, 3 = moderate stress, 4 = high stress and 5 = severe stress. The category of stress level was 0-23 = mild stress, 24-41 = moderate stress, 42-61 = high stress, and >62 = severe stress.

WHOQOL-BREF was used to measure QOL (IOC=.83; Cronbach's Alpha=.84). It consisted of 26 items assessed in Likert scale format from 1 to 5, various terminologies were used to define the score of Likert in each item. Transformation score of 0-100 was used in this study context. The category of QOL is presented in Table 2.

Descriptive statistic, independent sample T test, and Kolmogorov-Smirnov Z test were used for data analysis (α = .05). Ethical clearance was issued by Ethical Committee of Saint Louis College (SLC), Bangkok, Thailand (November 17th, 2016), Number: E. 038/2559.

Table 1: Sample distribution

Case	Bangkok	Surabaya	Total
DM	30	30	60
HT	35	33	68
DM&HT	35	33	68
Total	100	96	196

Table 2: Category of QOL

Domain	Poor	Moderate	Good
Physical	7-16	17-26	27-35
Psychological	6-14	15-22	23-30
Social	3-7	8-11	12-15
Environment	8-18	19-29	30-40
Overview	26-60	61-95	96-130

3 RESULTS

In total, the study respondents composed of 15.82% male and 84.18% female. Age range was 60 – 78 years old. The educational background of sample in Bangkok was mostly primary school (53%), while in Surabaya was mostly secondary school (64.58%). The income of sample in Bangkok was mostly 43% at THB 2000-6000 per-month (43%), while in Surabaya was mostly less than IDR 800 thousand per month (53.13%). In Bangkok, most respondents has relative who suffered from DM/HT (66%), while in Surabaya no family background was reported (69.79%). Table 3 will explain demography characteristic of study respondents.

There were 6% and 0% mild stress, 64% and 29.17% moderate stress, 24% and 67.71% high stress, 6% and 3.13% severe stress were found in Bangkok and Surabaya respectively. Majority, we

Table 3: Demography characteristic

Characteristic	Bangkok (100)		Surabaya (96)	
	1/0/		0/	
	n	%	n	%0
Sex	20	20	11/	11.45
Male	20	20	11	11.45
Female	80	80	85	88.54
Age (years old)				
60-69	48	48	75	78.13
>70	52	52	21	21.87
Education				
Primary school	53	53	25	26.04
Secondary school	25	25	62	64.58
Bachelor degree	8	8	9	9.38
No study	14	14	0	0
Occupation				
Farmer	1	1	0	0
Businessman	10	10	12	12.50
Government officer	2	2	1	1.04
Other (retire,	87	87	83	86.46
housewife)				
Monthly income				
THB <2,000				
(IDR <800,000)	18	18	51	53.13
THB 2,000-6,000				
(IDR 800,000-2.4	43	43	31	32.29
million)				52.25
THB 6,000-10,000	19	19	10	10.42
(IDR 2.41-4 million)				102
THB >10,000	20	20	4	4.17
(IDR >4 million)	20	20		1.17
Family background				
of HT/DM				
Yes	66	66	29	30.21
			-	
Y es No	34	34	29 67	30.21 69.79

Table 4: Table of frequency and descriptive statistic of Stress Level

Category	Bangkok (100)		Surabaya (96)	
	n	%	n	%
Mild	6	6	0	0
Moderate	64	64	28	29.17
High	24	24	65	67.71
Severe	6	6	3	3.13
Mean	36.82		48.42	
Std. Deviation	13.29		8.89	

Table 5: Table of frequency and descriptive statistic of overview QOL

Category	Bangkok (100)		Surabaya (96)	
	n	%	n	%
Poor	25	25	0	0
Moderate	52	52	88	91.67
Good	23	23	8	8.33
Mean	78.83		60.91	
Std. Deviation	18.96		8.15	

found moderate stress in Bangkok and high stress in Surabaya. 25% and 0% poor QOL, 52% and 91.67% moderate QOL, 23% and 8.33% good QOL were found in Bangkok and Surabaya respectively. Majority, we found moderate QOL in both site. Table 4 and 5 will explain the result of descriptive statistical analysis of measured variables.

The value of stress level in Bangkok was more various than Surabaya. The data of stress level was not normally distributed and not homogenous ($p<\alpha$). Kolmogorov-Smirnov Z test showed that there was significant difference of stress level between Bangkok and Surabaya (p=.000). After deeper analysis of each item in SPST-20 instrument, there were 11 items determined this significant difference. They were item 1, 2, 4, and 5 about anxiety, 6 about finance, 7 about muscular pain, 10 about appetite, 11 about headache, 14 about anger, 18 about concentration, and 19 about fatigue.

The value of overview QOL was also more various in Bangkok. All data of QOL was normally distributed and homogenous (p>α). Independent sample T test showed that there was significant difference of QOL between Bangkok and Surabaya (p=.000). After deeper analysis of each item in WHOQOL-BREF instrument, there were 14 items determined this significant difference. They were Q1 about overview QOL, Q2 about health satisfaction, Q5 about enjoyment of life, Q6 about life meaning, Q7 about concentration, Q9 about living environment, Q18 about working satisfaction, Q19 about

self-satisfaction, Q20 about personal/social relationship, Q21 about sexual life, Q22 about social support, Q24 about access to health care facility, Q25 about transportation, and Q26 about negative feeling. All domains was affected by the difference, especially social domain in which all items were affected (Q20, Q21, Q22), and psychological domain (Q5, Q6, Q7, Q19, Q26).

4 DISCUSSION

4.1 Stress Level Differences

Results showed that there was significant difference of stress level in elderly who are living with chronic illness between Bangkok and Surabaya. This difference was influenced by physical, psychology-cal/emotional, and financial aspect. Physical aspect relates to muscular pain, headache, appetite loss, and fatigue. Psychological aspect relates to anxiety, anger, and decreased concentration. Financial aspect relates to low monthly income.

Muscular pain is frequently found in elderly. Muscular pain in elderly usually happens because of osteoporosis and osteoarthritis (Urban et al., 2010; Camacho-Soto et al., 2011). An exploratory study in Ghana showed that musculo-skeletal pain in elderly is psychological, will worsen when they think too much because of retirement, especially without a house or enough money; also when the elderly left alone at home and not doing anything, at times they feel so bored (Aziato et al., 2016). The elderly experience mild, moderate or severe pain and the severity of pain increases with advancing age (Herr et al., 2010). Pain also impairs sleep among the elderly (Jacobson et al., 2009). Lack of sleep could induce headache, along with hunger because of low appetite. Chronic pain leads to a high incidence of depression and anxiety among the elderly (Cino, 2014). Pain and aches were frequent stressors found in elderly; therefore pain in various area of the body could increase their stress level.

Appetite loss and the lack of hunger related to aging have been termed as the anorexia of aging. The etiology is multi-factorial and includes a combination of physiological changes associated with aging (decline in smell and taste, reduced central and peripheral drive to eat, delayed gastric emptying), pathological conditions (depression, dementia, somatic diseases, medications and iatrogenic interventions, oral-health status), and social factors (poverty, loneliness). The anorexia of aging is associated with protein-energy malnutrition,

sarcopenia, frailty, functional deterioration, morbidity, and mortality. Loss of appetite may lead to protein-energy malnutrition and weight loss (Wysokinski et al., 2015). Appetite loss with weight loss becomes a stressor for elderly because of its bad consequences for health.

Fatigue is one of the most common symptoms experienced by older people, both with and without chronic disease. It is unpleasant and distressing and can affect functioning and QOL (Egerton, 2013). Fatigue can be an overwhelming and distressing experience that constrains capacity for physical functioning and social participation as well as worsens morbidity and mortality outcomes (Yu et al., 2010). A prospective study results focused on the correlation between subjective fatigue, cognitive function, and everyday functioning in elderly showed that all domains of cognitive function and everyday functioning declined significantly over five years; and the decline rates differed by the latent class of subjective fatigue. Except for the decreased fatigue class, there were different degrees of significant associations between the decline rates of subjective fatigue and all domains of cognitive function and everyday functioning in other classes of subjective fatigue (Lin et al., 2013). Fatigue could be a serious stressor for elderly because of its consequences for everyday functioning impacted on OOL.

The anxiety disorders are a prevalent mental health problem in older age; it has a particular comorbidity and risk factor profile (Sami & Nilforooshan, 2014). Anxiety disorders in the elderly have been associated with neurotic personality trait, cognitive decline, and increased burden on physical health including frailty, worsening physical functioning, increased disability and increased taking of medications (Gale et al., 2011; Ní Mhaoláin et al., 2012). Physical activity is associated with lower levels of depression and anxiety in elderly; female gender and lower educational background had higher values of anxiety and depression (Teixeira et al., 2013). Anxiety could influence stress level in elderly because of its effect on physical function in everyday life.

Anger could be an ordinary reaction to life situations or indicative of emotional illness. Anger can be healthy, and this should be recognized. For some elders, anger correlates with good mental health. Depression is regarded as an alternative to anger — anger turned inward. Anger in elderly correlates with the quality of their past relationships with parents, siblings, children, and friends; conflict management, coping strategy, work history, sexual

history, and life view. The elder's anger response has become conditioned over time. The elder could be trying to gain attention or to distance himself from others through the use of anger. The rechanneling of anger in elderly can be promoted through the use of physical activity, resident councils, recreation activities, and other socially acceptable means (McKinnon, 1998). By using these means, coping strategy could be influenced.

Concentration is the ability to maintain attention in a longer period. One of acute stress reaction is concentration disorder (Idrus, 2016). A study towards 74 elderly concluded that chronic stress and coping strategies may be modulated by the presence or absence of cognitive impairment, where memory deficit awareness constitutes an additional potential factor involved in high stress severity (Souza-Talarico et al., 2009). Concentration disorder may affect stress level in elderly because of its effect on cognitive function impairment.

Financial problem is one of great stressor for elderly, especially for those who had permanent job previously. Study results showed that some elderly already retire, and respondents in Surabaya had lower monthly income than Bangkok. Financial stress or strain which is presumably frequently experienced by elderly in low socioeconomic status or low income resulted in lower personal control associated with distress (Caplan & Schooler, 2007). Although financial strain is associated with actual income and poverty, it is also associted with cognitive capacity, depression, and self-esteem in elderly, resulted in adverse effects on subjective health (Angel et al., 2003). Economic security is the key element that in a straightforward manner affects people's quality of life (Drobnic et al., 2010). Financial problem in elderly needs to be addressed by the family in which the elders live; therefore stress level and subjective health status could be perceived better.

During the aging process, there is evidence that global perceived stress is associated with greater reported exposure to daily stressor in older adults (Stawski et al., 2008). These experiences of aging and chronic illness symptoms may lead to continuous anticipation of negative consequences, triggering high levels of perceived stress symptoms and cortisol levels. Stress symptomps are dependent to coping strategy (Souza-Talarico et al., 2009). The more adaptive coping strategy implemented, the lower stress level perceived. Lower stress level found in study respondents in Bangkok showed that the elders there implemented more adaptive coping strategy than the study respondents in Surabaya.

4.2 **QoL Differences**

Results showed that there was significant difference of QOL in elderly who are living with chronic illness between Bangkok and Surabaya. This difference was mostly existed in psychological and social domain of QOL. The difference was influenced by working satisfaction (physical domain); enjoyment of life, life meaning, concentration, self-satisfaction, and negative feeling (psychological domain); personal/social relationship, sexual life, and social support (social domain); living environment, access to health care facility, and transportation (environmental domain).

Working satisfaction in elderly relates to physical capacity needed for performing daily live activities or household works; most study respondents already retire, or being a housewife for now. Work is an important economic, social, and psychological ingredient of human life. Higher work intensity may lead to deterioration of health and simultaneously less likely to be able to afford the time needed for health care due to work obligation (Zajc & Kohont, 2017). Time of health care in elderly with chronic illness needs to be sufficient for monitoring their health status and providing long-term vare needed based on current health conditions. Less amount of free time also affects life satisfaction, happiness, depressed feeling, problem solving capacity, and self-confidence of individual (Zajc & Kohont, 2017). Elderly needs sufficient free time and leisure aktivities to increase their life satisfaction and OOL.

Enjoyment of life were found to be lesser in individual with limiting and long standing illness, such as DM and HT resulted in stroke, smoking, physical inactivity, and alcoholic. Enjoyment of life could predict a reduced risk of functional impairment at older ages impacting QOL. Independent predictors of functional impairment are greater age, less wealth, having limiting - long standing illness; baseline diabetes, arthritis, and stroke; having a single impaired activity of daily living at baseline, and physical inactivity (Steptoe et al., 2014). Enjoyment in later life may also affect cognitive health in elderly. Lack of cognitive health in elderly results in decreased independence and well-being, increrased health care costs, and wellbeing. increased healthcare costs. institutionalization and high levels of caregiver burden (Hughes & Ganguli, 2009). Enjoymeny of life needs to be adressed by elderly and the people around them, along with adaptive coping strategy implemented, so that better QOL could be achieved.

Life meaning, together with hope, have significant correlation with positive mental health. Life meaning explained 8% of variance of life satisfaction. Life meaning is an independent predictor of life satisfaction and self-esteem (Halama & Dedova, 2007). For a single living older woman, low living standard assessed by economic and housing conditions seems to be a more serious obstacle than poor health, making it difficult to obtain a reasonable life satisfaction (Horstmann et al., 2012). Generally, QOL is influenced by living standard. Reasonable standard of living has changed with time and cultural settings. In a society with inequalities in living standard, there is elevated stress level, especially in the lowest socio-economic status, leading to poorer health and even lower life satisfaction (Marmot, 2005). Poor QOL found in Bangkok and lower QOL found in Surabaya potentially because of inequalities in living standard in the society, or unmatched status between expectations and ambitions of respondents and the possibility to reach their goals in life.

Self-satisfaction was associated with self-image. Negative self-image is associated with various psychological problems such as psychiatric disturbance, low self-esteem, depression, and behaviour problems. Self-image could predict mental health in adulthood. The chronological age influences the self-perception about self image. The level of satisfaction indicates the assessment of the quality of the resources that individuals hold in order to face the challenges of age. Interpersonal relationships and the reference cultural system, where the individual acts, significantly contribute to the definition of the idea of self (Diana et al., 2014). Self-image in elderly is influenced by the construct of self developed by values and culture in the family and community. Better understanding of physical changes and self-realization related to age could promote positive self-image and psychological wellbeing in elderly.

Negative feeling sometimes experienced by elderly, such as loneliness and feeling abandon. Loneliness was widespread among elderly widows. Many felt isolated, dislocated from former social circulation and missed being relevant (Nyanzi, 2011). A study conducted in rural Thailand towards 212 elderly showed that 9% were found to live alone, 20% stated that they felt abandoned to some degree. Feelings of abandonment do appear to result in lower QOL in terms of psychological factors, including one's overall enjoyment of life, having a meaningful life, and feelings of despair, anxiety or depression (Sudnongbua et al., 2010). Abandonment

or loneliness of elderly, especially in rural area, usually is a result of children emigration to other area/city because of work and job obligations. But, in city like Bangkok and Surabaya this condition also exists, also mainly because of job obligations. Adult children these days should pay more attention to their elderly parents to promote better QOL.

Sexual life for elderly is difficult matter, especially related to widower, negative body image, depression, and erectile dysfunction due to chronic illness. Sexuality impacts elderly's QOL by mechanism of spouse/family support, enjoyment, and secure feeling. Most study respondents were women elderly, marital status and widower were not identified. Post-menopausal widows have less sexual appeal than younger widows for whom reproduction is a viable outcome of sexuality. Adult children usually control the sexuality of their elderly parents often by discouraging sexual liaisons. Adult children may also arrange for new spouses with utilitarian value, such as providing healthcare for ill elders (Nyanzi, 2011). QOL showed significant positive correlations with body image and sexuality, but a significantly negative correlation with depression. Body image, depression, education level, sexuality, and stressor were significant predictors influencing QOL in middle-aged adults in the community (Kim & Kang, 2015). Erectile dysfunction was associated with higher level of diabetes-specific health distress and worse psychological adaptation to DM, related to worse metabolic control. Erectile problem was also associated with a dramatic increase in the prevalence of severe depressive symptoms, less satisfactory in sexual life, lower scores in the mental component of QOL assessed by SF-36 (Berardis et al., 2002).

Social support gained from the family or neighborhood is important to increase the value of social domain of QOL in elderly because communication with other person could add life experiences that are stress relieving and cognitively stimulating. A study in Turkey towards 108 older adults concluded that QOL correlated with social support from subgroups of family (spouse and childrern), friends, and special friend (Unsar et al., 2016). Social environment comprised of social relationships and interpersonal interaction. Social relationships can provide protection to life stresses depression, loneliness, cognitive decline, risk of institutionalization. Interpersonal interactions promote psychological well-being and decreased rates of morbidity and mortality (Smith & Christakis, 2008). Socially active older adults tend to have better cognition. Maintaining social networks

in later life may be beneficial as it provides several social opportunities (Flatt & Hughes, 2013). Social support gained from several social activities in later life could promote cognitive health, life enjoyment, adaptive coping strategy, and QOL.

Environmental factors also affect QOL. The factors which are important in maintaining a good QOL are being safe, overall living conditions, having sufficient money, access to health services, access to information for everyday living, leisure activities, physical environment, and transport (Sudnongbua et al., 2010). Living arrangement was associated with health among older adults. Living arrangement concordance increases the likelihood of rating self-rated health as good, with concordance having a greater impact for institutionalized elders than for communityresiding elders (Sereny & Gu. 2011). Both living arrangement and home modifications are important for promoting better QOL in elderly who are having physical limitations. Living environment is essential for elderly; it is important to assure their safety, comfort, life enjoyment, and condusive interpersonal relationship with all family member.

Access to health care facility is essential for elderly who are living with chronic illnesses, sufficient time and proper health care service are needed to promote routine check up of elderly's health condition. A poor, aging service design exerts a negative effect on the QOL of elderly people. This usually happens because government agencies have limited resources, so that improvement items cannot be implemented simultaneously. A comprehensive aging place policy and increases effective use of resources are needed to meet elderly people demands, provide a clear design, and improve service quality to match the demands and expectations of elderly people (Chen, 2016).

Transportation is also important for promoting better QOL in elderly. Currently, there are about 8.4 million senior citizens who depend on others for their transportation. Shortly, the number of older drivers will be more than double, making the issue of senior transportation even more critical. In fact, according to the Administration on Aging, by the year 2030 the number of drivers over age 85 will be 4–5 times what it is today. The use of private vehicle is not easy in older age, because of eye problems, musculo-skeletal pain, tremor, and restriction; and because the skills and abilities associated with driving tend to diminish with ageviable alternate forms of transportation for the elderly will continue to be an important issue for years to come (FamilyCare America, 2018).

Therefore, elderly really need an easily accessible public transportation developed by government or private agencies to promote the use of medical care, especially in urban life presented in Bangkok and Surabaya.

5 CONCLUSIONS

There was significant difference of stress level in elderly who are living with chronic illness between Bangkok and Surabaya. This difference was influenced by physical, psychological/emotional, and financial aspect. Physical aspect relates to muscular pain, headache, appetite loss, and fatigue. Psychological aspect relates to anxiety, anger, and decreased concentration. Financial aspect relates to low monthly income. Coping strategy tends to be more adaptive in Bangkok.

There was significant difference of QOL in elderly who are living with chronic illness between Bangkok and Surabaya. This difference was mostly existed in psychological and social domain of QOL. The difference was influenced by working satisfaction (physical domain); enjoyment of life, life meaning, concentration, self-satisfaction, and negative feeling (psychological domain); personal/social relationship, sexual life, and social support (social domain); living environment, access to health care facility, and transportation (environmental domain). Inequalities in living standard tends to happen in Surabaya's society.

ACKNOWLEDGEMENTS

This study was funded by Saint Louis College (SLC) and Widya Mandala Catholic University Surabaya (WMCUS). This publication was supported by Faculty of Nursing, WMCUS. We thanked all respondents for participating in this study.

REFERENCES

Angel, R.J., Frisco, M., Anghel, J.L., Chiriboga, D.A. 2003. Financial strain and health among elderly Mexican-origin individuals. *Journal of Health and Social Behavior*, 44: 536-551.

Aziato, L., Ohene, L.A., Norman, L. Antwi, H.O. 2016. Ageing with aches and pains': lived experiences of the elderly in Ghana.

- *International Journal of Caring Sciences*, 9(2): 551-560.
- Berardis, G.D., Franciosi, M., Belfiglio, M., Nardo, B.D., Greenfield, S., Kaplan, S.H., Pellegrini, F., Sacco, M., Tognoni, G., Valentini, M., Nicolucci, A. Erectile dysfunction and quality of life in type 2 diabetes patients. *Diabetes Care*, 25(2): 84-291.
- Camacho-Soto, A., Sowa, G. & Weiner, D. K. 2011. Chapter 58 - Geriatric pain. *In:* Candido, K et al., (ed.) *Essentials of Pain Medicine (Third Edition)*. Saint Louis: W.B. Saunders.
- Caplan, L.J., Schooler, C. 2007. Socioeconomic status and financial coping strategies: the mediating role of perceived control. *Social Psychology Quarterly*, 70(1): 43-58.
- Cino, K. 2014. Aromatherapy hand massage for older adults with chronic pain living in long term care. *Journal of Holistic Nursing*, 32: 304-313.
- Chen, S-H. 2016. Determining the service demands of an aging population by integrating QFD and FMEA method. *Qual Quant.*, 50: 283–298.
- Diana, P., Bottoni, G., Ferrari, G. 2014. Self-image and self-satisfaction: a research among southern Italian students using a battery of OSIQ items. *Italian Sociological Review, 2014, 4, 1, pp. 51-70.*
- Drobnic, S., Beham, B., Prag, P. 2010. Good job, Good life? Working conditions and quality of life in Europe. *Soc Indic Res.*, 99: 205–225.
- Egerton, T. 2013. Self-reported aging-related fatigue: a concept description and its relevance to physical therapist practice. *Physical Therapy*, 93(10): 1403-1413.
- Family Care America. (2018). *Transportation and The Elderly*. Retrieved from: http://www.caregiverslibrary.org/caregivers-resources/grp-transportation/transportation-and-the-elderly-article.aspx
- Flatt, J.D., Hughes, T.F. 2013. Participation in social activities in later life: does enjoyment have important implications for cognitive health?. *Aging Health*,

9(2): 149–158.

- Gale, C.R. *et al.* 2011. Factors associated with symptoms of anxiety and depression in five cohorts of community-based older people: the HALCyon (healthy ageing across the life course) programme. *Psychological Medicine*, 41: 2057–2073.
- Halama, P., Dedova, M. 2007. Meaning in life and hope as predictors of positive mental health: do they explain residual variance not predicted by personality traits. *Studia Psychologica*, 49(3): 191-200.
- Herr, K., Titler, M., Fine, P., Sanders, S., Cavanaugh, J., Swegle, J., Forcucci, C. & Tang,

- X. 2010. Assessing and treating pain in hospices: current state of evidence-based practices. *J Pain Symptom Manage*, 39: 803-19.
- Horstmann, V., Haak, M., Tomsone, S., Iwarsson, S., Gräsbeck, A. 2012. Life satisfaction in older women in Latvia and Sweden—relations to standard of living, aspects of health and coping behaviour. *J Cross Cult Gerontol.*, 27: 391–407.
- Hughes, T.F., Ganguli, M. 2009. Modifiable midlife risk factors for latelife cognitive impairment and dementia. *Curr. Psychiatry Rev.*, 5(2): 73–92.
- Idrus, M.F. 2016. Stress-related disorder (in Bahasa Indonesia). Retrieved from: http://med.unhas.ac.id/kedokteran/wp-content/uploads/2016/10/Gangguan-Terkait-dengan-Stres.pdf
- Jacobson, B. H., Boolani, A. & Smith, D. B. 2009. Changes in back pain, sleep quality, and perceived stress after introduction of new bedding systems(). *Journal of Chiropractic Medicine*, 8: 1-8.
- Kim, J.S., Kang, S. 2015. A study on body image, sexual quality of life, depression, and quality of life in middle-aged adults. *Asian Nursing Research*, 9, 96-103.
- Lin, F., Chen, D-G., Vance, D.E., Ball, K.K., Mapstone, M. 2013. Longitudinal relationships between subjective fatigue, cognitive function, and everyday functioning in old age. *International Psychogeriatrics*, 25(2): 275-285.
- Marmot, M. 2005. Social determinants of health inequalities. *Lancet*, 365: 1099–1104.
- McKinnon, N. 1998. Caring for angry elders: what makes them that way, and what you can do about it. *Nursing Homes*, 47(11): 51-54.
- Ní Mhaoláin, A.M. *et al.* 2012. Frailty, depression, and anxiety in later life. *International Psychogeriatrics*, 24: 1265–1274.
- Nyanzi, S. 2011. Ambivalence surrounding elderly widows' sexuality in urban Uganda. *Ageing Int.*, 36: 378–400.
- Sami, M.B., Nilforooshan, R. 2015. The natural course of anxiety disorders in the elderly:a systematic review of longitudinal trials. *International Psychogeriatrics*, 27(7): 1061–1069.
- Sereny, M.D., Gu, D. 2011. Living arrangement concordance and its association with self-rated health among institutionalized and community-residing older adults in China. *J Cross Cult Gerontol.*, 26: 239–259.
- Smith, K.P., Christakis, N.A. 2008. Social networks and health. *Annu. Rev. Sociol.*, 34: 405–429.
- Souza-Talaricoa, J.N., Chaves, E.C., Nitrini, R., Caramellic, P. 2009. Chronic stress is associated with high cortisol levels and emotional coping mechanisms in amnestic mild cognitive

- impairment. Dement Geriatr Cogn Disord, 28: 465–470
- Stawski, R.S., Sliwinski, M.J., Almeida, D.M., Smyth, J.M. 2008. Reported exposure and emotional reactivity to daily stressors: the roles of adult-age and global perceived stress. *Psychol Aging*, 23(1): 52–61.
- Steptoe, A., de Oliveira, C., Demakakos, P., Zaninotto, P. 2014. Enjoyment of life and declining physical function at older ages: a longitudinal cohort study. *CMAJ*, 186(4): 150-156.
- Sudnongbua, S., LaGrow, S., Boddy, J. 2010. Feelings of Abandonment and Quality of Life Among Older Persons in Rural Northeast Thailand. *J Cross Cult Gerontol.*, 25: 257–269.
- Teixeira, C.M., Vasconcelos-Raposo, J., Fernandes, H.M., Brustad, R.J. 2013. Physical activity, depression and anxiety among the elderly. *Soc Indic Res*, 113: 307–318.
- Unsar, S., Erol, O., Sut, N. 2016. Social support and quality of life among older adults. *International Journal of Caring Sciences*, 9(1): 249-257.
- Urban, D., Cherny, N. & Catane, R. 2010. The management of cancer pain in the elderly. *Critical Reviews in Oncology/Hematology*, 73, 176-183.
- World Health Organization (WHO). 2015. Noncommunicable Diseases Progress Monitor 2015 (September 2015). ISBN: 978 92 4 150945 9
- WHO Thailand. 2014. *Noncommunicable Diseases* (*NCD*) *Country Profiles*. Retrieved from: www.who.int/nmh/countries/tha_en.pdf
- WHO. 2014. WHO Global Health Expenditures Atlas (September 2014). Retrieved from: www.who.int/health-accounts/atlas2014.pdf
- Wysokiński, A., Sobów, T., Kłoszewska, I., Kostka, T., 2015. Mechanisms of the anorexia of aging—a review. *Age*, 37:81.
- Yu, D.S., Lee, D.T., Man, N.W. 2010. Fatigue among older people: a review of the research literature. *Int J Nurs Stud.*, 47:216 –228.
- Zajc, JC., Kohont, A. 2017. Impats of work intensity on employees' quality of work, life and health. *Teorija in Praksa*, 54(2): 209-223.