



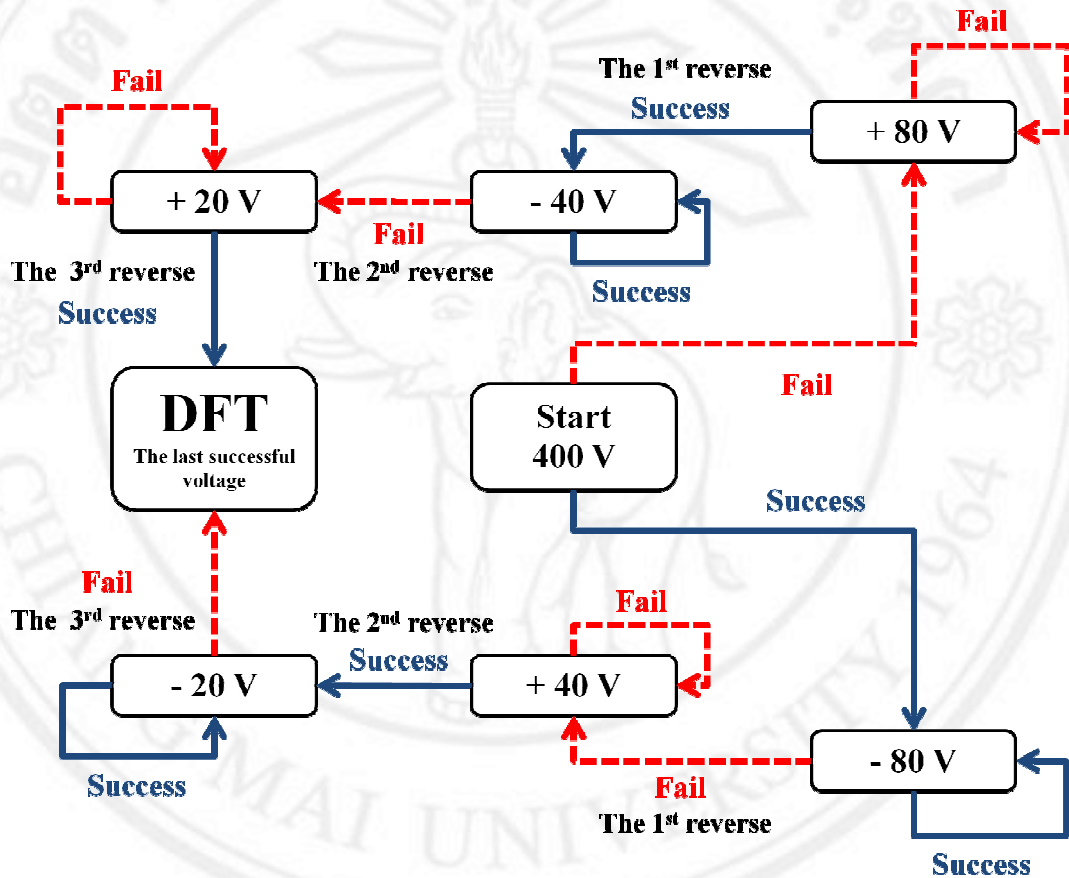
APPENDICES

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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APPENDIX A

Three reversals up/down protocol diagram



APPENDIX B

The ECG parameters determination

At the end of the study, P-R interval, QRS complex, R-R interval, and Q-T interval from ECG recordings were analyzed by averaging 5 intervals immediately before VNS, during VNS, and after VNS termination.

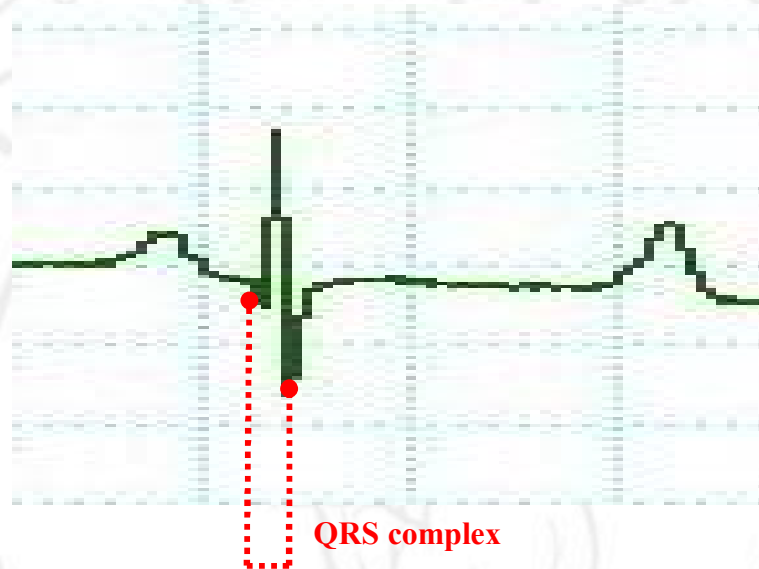
P-R interval

The P-R interval measured at the beginning of the P wave until the beginning of the QRS complex.



QRS complex

The QRS complex measured at the beginning of the Q wave until the end of the S wave



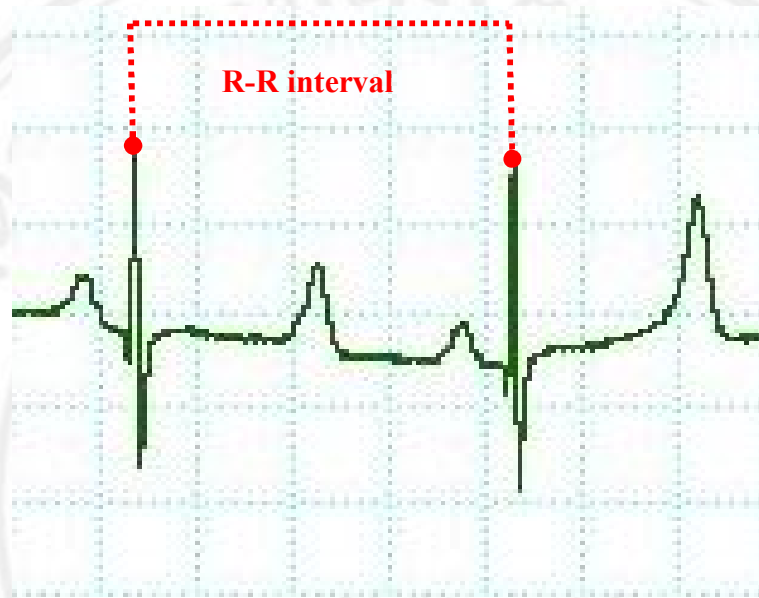
Q-T interval

The Q-T interval measured at the beginning of the beginning of Q wave (or R wave if Q is absent) to the end of the T wave.



R-R interval

The interval between 2 successive R waves



CURRICULUM VITAE

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Educational Background

2006 Bachelor of Engineering (Mechanical) (B.Eng)
Faculty of Engineering, Burapha University
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Honors and awards

2012 *Short term exchange scholarship*, Ritsumeikan University,
Japan, Japan Student Service Organization (JASSO)
scholarship under the Ministry of Education, Culture, Sports,
Science and Technology (Monbukagakusho)

2013 Best Student Presentation Award at the 20th Tri-University
International Joint Seminar and Symposium 2013 at Mie
University, Japan

2013 A Merit Award for Oral Presentation at International Graduated
Research Conference 2013 at The Empress Convention Center,
The Empress Hotel, Chiang Mai, Thailand.

Conference presentations at international meetings

November 2013 The 20th Tri-University International Joint Seminar and Symposium 2013 at Mie University, Japan

December 2013 International Graduated Research Conference 2013 at The Empress Convention Center, The Empress Hotel, Chiang Mai, Thailand.

Peer Reviewed Article

1. Shinlapawittayatorn K, Chinda K, Palee S, Surinkaew S, **Thunsiri K**, Weerateerangkul P, Chattipakorn S, KenKnight BH, Chattipakorn N. Left Vagus Nerve Stimulation Significantly Attenuates Ventricular Dysfunction and Infarct Size Through Prevention of Mitochondrial Dysfunction During Acute Ischemia-Reperfusion Injury in Swine. Heart Rhythm. 2013 Nov;10(11):1708-9. (IF=5.045) **(With editorial comment)**:Laurita KR, Hirose M. Electrical vagal stimulation and cardioprotection. Heart Rhythm. 2013 Nov;10(11):1700-7.

Peer Reviewed Abstract

1. Shinlapawittayatorn K, Chinda K, Palee S, Surinkaew S, **Thunsiri K**, Weerateerangkul P, Chattipakorn S, KenKnight BH, Chattipakorn N. Left Vagus Nerve Stimulation Significantly Attenuates Ventricular Dysfunction and Infarct Size Through Prevention of Mitochondrial Dysfunction During Acute Ischemia-Reperfusion Injury in Swine. J Am CollCardiol 2013. (IF = 14.086)

Conference short papers and abstracts

1. **Thunsiri K**, Li LH, Hatsuda R, Theera-Umpon N, Sugiyama S. Determination of plasma uric acid by porous polymer filter and electrochemical detection. The 20th Tri-University International Joint Seminar and Symposium 2013 at Mie University, Japan. (Best Student Presentation Award)
2. **Thunsiri K**, Chinda K, Palee S, Surinkaew S, Weerateerangkul P, Shinlapawittayatorn K, Chattipakorn S, Kenknight BH, Chattipakorn N. Effects of Vagal Nerve Stimulation on Ventricular Defibrillation. International Graduated Research Conference 2013 at The Empress Convention Center, The Empress Hotel, Chiang Mai, Thailand. (A Merit Award for Oral Presentation)

Area of academic experiences

1. Defibrillation threshold measuring
2. Electrocardiological recording
3. Vagal nerve stimulation
4. Electrode design for electrical stimulation
5. Basic micro electro-mechanical system fabrication
6. Basic micro/nanopolymer structure fabrication