

JAPAN DENTAL ASSOCIATION
THE FELLOWSHIP OF THE INTERNATIONAL SCIENTIFIC EXCHANGE FUND
RESEARCH ACCOMPLISHMENT REPORT

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| Name of Recipient: LE THI THUY LY | Period of Fellowship: 4/2017 - 9/2017 : 6 months |
| Research Subject: Treatment effects and stability for Mandibular incisor intrusion by minicrew anchorage in class II Malocclusion | |
| Host Institution in Japan: Prof. KAMIOKA Hiroshi Professor and Chair of Orthodontic Department | Host Supervisor in Japan: Prof. KAMIOKA Hiroshi, Professor and Chair of Orthodontic Department |
| Accomplishments during your stay in Japan: (If this space is not enough, please attach a report) <ol style="list-style-type: none"> 1. The first 3-month : - Complete training programs for basic Orthodontics 2. 3 months later : - Complete the study " Treatment effects and stability for Mandibular incisor intrusion by minicrew anchorage in Class II Malocclusion", supervisor: PhD, DDS. Masahiro Nakamura. | |
| Publications: None | |
| Presentations at Academic Meetings: - Presentation " Treatment effects and stability for Mandibular incisor intrusion by minicrew anchorage in Class II Malocclusion" at Orthodontic Department Meeting. | |
| Contact Address after the Period of this fellowship: <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> Haiphong University of Medicine and Pharmacy No. 72 Nguyen Binh Khiem St., Ngo Quyen Dist., Haiphong </div> <div style="width: 35%; text-align: right;"> Haiphong University of Medicine and Pharmacy </div> </div> | |
| E-mail Address: [REDACTED] | |





Signature of Applicant: _____



Date: _____

30/09/2017

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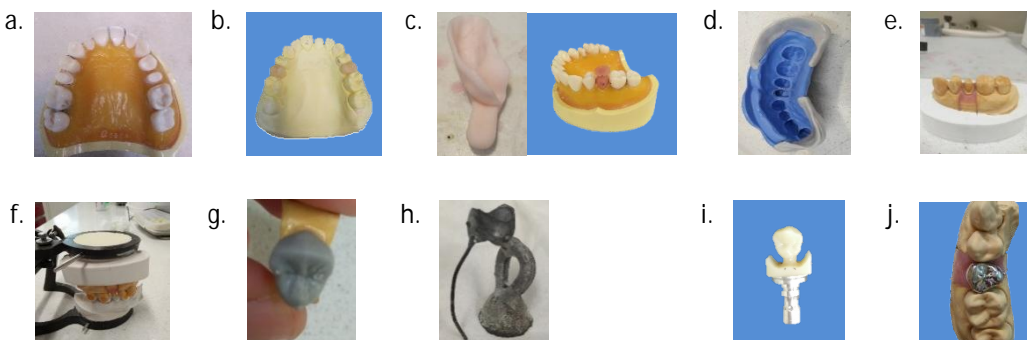
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| Name of Recipient: Fitria Rahmitasari, drg., M.Kes. | Period of Fellowship: 01 July - 31 October 2017 |
| Research Subject: Polyetheretherketone (PEEK) as a substitutional material for dental metal alloy Practical training in Dental Laboratory | |
| Host Institution in Japan: Tetsuo Ichikawa, DDS., PhD. | Host Supervisor in Japan: Yuichi Ishida, DDS., PhD. |
| <p>Accomplishments during your stay in Japan: (If this space is not enough, please attach a report)</p> <p>During 4-month stay in Japan, I have experienced and studied many things as listed below at Department of Oral and Maxillofacial Prosthodontics, Tokushima University. There were my activities including:</p> <ol style="list-style-type: none"> 1. Experiment on shear bond strength test between PEEK and acrylic resin. <p>The topic of research project was about developing the versatility of PEEK as a substitutional material beside metal alloy for denture clasp. I have already known about PEEK as a high performance thermoplastic polymer which has excellent properties and biocompatibility. PEEK material is one of the substitutional materials for metal alloys because it has good esthetic and not causing allergenic effects. Before making denture clasp of PEEK, basic research, i.e. adhesive strength to resin is required. We evaluated the shear bond strength between PEEK and acrylic resin. In this research, I got new knowledge and studied many things, like:</p> <ol style="list-style-type: none"> a. Specimen fabrication using vacuum drying machine and ion coater machine b. Shear bond strength test with universal testing machine (UTM), c. Observations of specimen surface using scanning electron microscopy (SEM) <p>During the experiments, I got experiences to use the kinds of machines that I cannot find in my university at my country, such as:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><i>Vacuum Drying Machine</i></p> </div> <div style="text-align: center;">  <p><i>Ion Coater Machine</i></p> </div> <div style="text-align: center;">  <p><i>Universal Testing Machine (UTM)</i></p> </div> <div style="text-align: center;">  <p><i>Scanning Electron Microscopy (SEM)</i></p> </div> </div> | |
| <ol style="list-style-type: none"> 2. Preparation of a review article about PEEK material <p>Based on this activity, I studied how to make the review article step by step. These were my learning of the review process:</p> <ol style="list-style-type: none"> a. Keyword setting b. Article research using "Pubmed" and "Google scholar" | |

- c. Reference selection
- d. Article reviewing
- e. Discussion
- f. Preparation of article

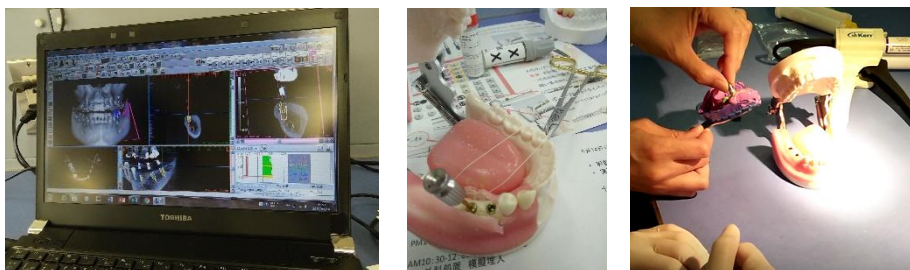
3. Practical training on dental laboratory work in Tokushima University Hospital

- a. Tooth preparation of artificial tooth for metal crown, hybrid resin crown, and zirconia crown
- b. Fabrication of provisional crown with self-curing acrylic resin
- c. Fabrication of individual tooth tray and individual tray
- d. Impression using silicone material
- e. Fabrication of working models and dies with artificial gingiva
- f. Installation of the models on the articulator
- g. Waxing up
- h. Casting to full metal crown
- i. Making of hybrid resin crown with CAD/CAM system
- j. Polishing and finishing

Based on the kind of practical training above, these were the results of my productions :



4. Join implant lecture and practice: implant installation with Computer Assisted Technology (iCAT), impression procedure on dental implant (close tray method and open tray method), and Clinical Association of Light and Laser (CALL).



5. Join journal reading meeting class: (Research, case report, and review articles)

6. Experience to join the interim presentation class for PhD students.

These are great experiences which I was got in Tokushima University. I have learned many things about Japanese cultures here. They have spend much time to focus their study and research. Usually in my country, working time is finished by 4 p.m, but in here they sometimes spend time for the studying and doing the research until night time. I think they have quality daily time that I can't found in my country. Good and kind lectures in Japan make me have positive spirit to finished my research project. They always support and give some suggestions and also attentions to monitoring our studying process. Four months have been doing research project in Japan, I became more respect to spend my daily time than ever before. Very great collaboration through this kind of exchange program between Japan and Indonesia can give many advantages for both countries. We can share the culture, knowledge, technology which all of that can give valuable goal in the future. Big thanks to Japan Dental Association (JDA) and Dental Faculty of Tokushima University for all the support, attention, and the opportunity to me in 4 months period. I am very honored to be here and feel glad to be in Tokushima University. In the future, I wish all of my new knowledges that I got from here can be useful and can be transferred to my colleagues and students in my country. Hopefully there is a next chance for me to study in Japan someday.

Publications:

Under preparation on a review paper regarding PEEK material. I will submit the review article to an international journal by this year by incorporating of Prof. Tetsuo Ichikawa and Dr. Yuichi Ishida.

Presentations at Academic Meetings:

No

Contact Address after the Period of this fellowship:


Home: Jl. Tuban 2 No.73 Surabaya, Indonesia. Postal code: 60171. Phone: +6281230174765

Office: Dental Material Department - Dentistry Faculty of Hang Tuah University

Jl. Arief Rahman Hakim No.150 Surabaya, Indonesia. Postal code: 60111. Phone: +62315912191

E-mail Address:

[REDACTED]

Signature of Applicant: Fitria Rahmitasari, drg., M.Kes.  **Date:** 11 October 2017