



PhD in Global Oral Health Science

Niigata University Graduate School of Medical and Dental Sciences
Course for Oral Life Science

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1 General Information

1. Goal and Objective

- To educate global oral health science workforce who are prepared to manage with the global oral disease burdens bringing a better quality of life of diverse communities throughout the world.
- To provide knowledge, attitude and skill in global oral health science at postgraduate level (doctoral degree) to dental workforce who will be able to plan and provide the most appropriate, acceptable, accessible, affordable and available of oral healthcare services to all communities in the world in the following learning outcomes.

2. Learning outcomes

1) Ethics and Attitudes

- To effectively apply skills as a team leader in global oral health promotion.
- To respect community's choices, values and need for confidentiality
- To collaborate, share information with multidisciplinary team
- To design community-based research responding to important cultural and global issues
- To communicate and elaborate effectively with all stakeholders in promotion of oral health
- To have leadership mind and be role model in good manner
- To apply knowledge, skills and values learned from the coursework and life experience adapted to diverse global situation

2) Knowledge

- To identify and solve the global oral health burdens
- To identify the needs for promoting global oral health
- To write a manuscript for publication in peer review international journal
- To assess and analyze the oral health status, needs and demands and their determinants in a community comparing to the global situation.

3) Skills

- To establish goals and set priorities of oral health programs
- To develop and apply evidence-based preventive as well as curative approaches and strategies in delivery oral health promotion services appropriate, accessible, affordable to the community's oral health problems,

lifestyle, social and economic condition

- To translate evidence-based oral health science constructively to evidence-based oral health practice
- To ethically implement, monitor and evaluate effectiveness of the planned community oral health care program.
- To administer and control quality of oral health promotion program under limited resource situation
- To conduct research in promotion of global oral health
- To be a lifelong learner in continuous develop and revise the global oral health promotion program for the better and more appropriateness

3. Global Oral Health Competency



2 Program Specific Information

1. Total credits hour and period of study by plan and base of study

Origin	Based	Plan	Degree holding			Total credit hours	Total study years
			Degree		Publication		
			DDS	Master			
International/ Japanese	Research based (dissertation)	1	✓	✓	X	36	4(3)
			X	✓	✓		
	Didactic coursework + dissertation	2	✓	X	X	48	4
			X	✓	X		

2. Structure of Curriculum

- Plan 1: Master degree holders

(Some credits of the didactic coursework would be recognized)

Didactic coursework (18 credits) + Dissertation (14 credits) + Extramural Externship (4 credits)
= 36 credits

If the candidate is recognized as a high achiever, he/she can graduate the course for 3 years.

- Plan 2: Bachelor degree of dentistry holders

Didactic coursework (30 credits) + Dissertation (14 credits) + Extramural Externship (4 credits)
= 48 credits

3. Teaching and Learning Mode

- Classroom (global classroom & e-learning)
- Group discussion
- Seminar, conference
- Self-directed learning
- Diverse communities at local and/or international public health office

3 Educational Management System, Implementation and Curriculum Structure

1. Credit hours by study plan and years to complete

			Plan	
			1	2
			Year to complete	
			4(3)	4
			Credits	
			36	48
Didactic Courses (30 credits)	Compulsory	English proficiency	-	4
		Basic statistics	-	2
	Required for GORH major area		-	6
	Required elective for GORH major area		8	8
	Elective for dissertation		10	10
Dissertation (14 credits)	Dissertation proposal development and Implementation for Global Oral Health Science		14	14
	Interim presentation			
	Presentation at international congress			
	Dissertation Defense(Global Oral Health Science)			
Extramural Externship (4 credits)	Stay and study/experience at collaborating institutes and organization (approx. 6 months)		4	4

2. Didactic Course (30 credits)

① Compulsory (6 credits)

No.	Title	Credit
140N5603	Academic reading and writing "A"	2
140N5604	Academic reading and writing "B"	2
140N5601	Basic course for Research and Statistics	2

② Required for GORH major area (6 credits)

No.	Title	Credit
140N5627	Course for Global Oral Health	4
New	Professionalism and Ethics in Oral Health Research	1
New	GORH seminar	1

③ Required and Elective for GORH major area (More than 8 credits)

No.	Title	Credit
140N5129	Global Oral Epidemiology "A" – Current Concepts in Prevention of Oral Diseases	2
140N5130	Global Oral Epidemiology "B" – Advance Oral Epidemiology, Oral Health Science and Socio-behavioral Science	2
(130N5133)	Practical Global Oral Health Science "A" – Oral Health Promotion and Information System/Technology	2
(130N5134)	Practical Global Oral Health Science "B" – Oral Health Care Delivery System and Workforce Development	2
140N5197	Seminar on Oral Health Policy "A"	2
140N5198	Seminar on Oral Health Policy "B"	2

④ Elective(Free) Concentrated to Dissertation Topic (More than 10 credits)

Example of Courses:

No.	Title	Credit
140N5137	Preventive Dentistry "A"	2
140N5138	Preventive Dentistry "B"	2
140N5205	Public Health Dentistry "A"	2
140N5206	Public Health Dentistry "B"	2
140N5125	Seminar on Cariology "A"	2
140N5126	Seminar on Cariology "B"	2
140N5185	Clinical Cariology "A"	2
140N5186	Clinical Cariology "B"	2
140N5189	Clinical Seminar and Practice Training for Treatment of Dental Caries "A"	2
140N5190	Clinical Seminar and Practice Training for Treatment of Dental Caries "B"	2
140N5141	Dentistry for Child Health and Development "A"	2
140N5142	Dentistry for Child Health and Development "B"	2
140N5145	Practice of Pediatric Dentistry: Treatment of Children's Oral Disease "A"	2
140N5146	Practice of Pediatric Dentistry: Treatment of Children's Oral Disease "A"	2
140N5357	Seminar on Diagnosis of Periodontitis "A"	2
140N5358	Seminar on Diagnosis of Periodontitis "B"	2

More courses are available in "SYLLABUS".

3. Dissertation (14 credits)

No.	Title	Credit	
New	Dissertation proposal development and Implementation for Global Oral Health Science	8	14
New	Interim presentation	1	
New	Presentation at international congress	1	
New	Dissertation Defense(Global Oral Health Science)	4	

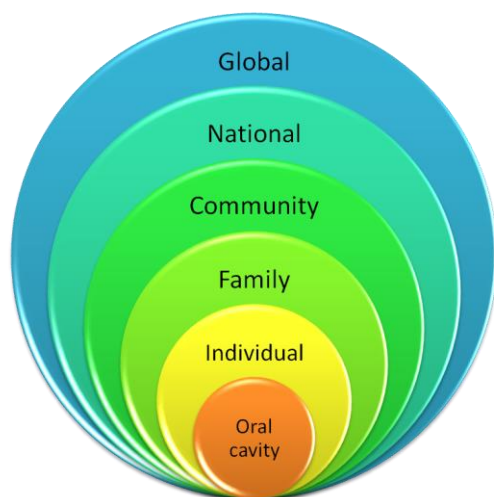
4. Extramural Externship (4 credits)

No.	Title	Credit
New	Externship	4

Candidates should transfer temporarily to collaborating institutes or organizations for approx. 6 months and undergo practical experience as externship. He/she could broaden experience from individual oral cavity level to global level.

Learning outcome of the extramural externship :

- Communication skills for different culture → Debate skill at global level
- Taking leadership → Competency as a global leader
- Implementation skill of survey and research → Skill of planning oral health policy



So far, candidates could experience Global Oral Health Programme at WHO headquarters and WHO collaborating center networks(New Castle University, Otago University, Michigan University and etc). Other candidates joined the project of oral health promotion in Asia (Cambodia, Sri Lanka and etc). It means the externship program contributes to develop human resources who have both of internationality and ability of implementation.

The students are required to establish an extramural project, plan or scope of work based upon the community's needs, work, or institutional mission. The project should include externship location, date and period, list of works to be done and achieved, travelling plan, proposed budget and possible financial support.

1. Main learning outcomes of the extramural externship will allow the student a significant chance to utilize knowledge and skills from the classroom to real setting where global oral health burdens in terms of inequality and disparity exists in the followings.
 - 1.1. Practicing as a member/leader of the global oral health team in actual settings.
 - 1.2. Assimilating and applying all related sciences and technologies in the promotion of oral health of the global citizen to cover all levels of the scopes of global oral health concern regarding to the existing political, economic, social and organizational contexts.
 - 1.3. Systematically collecting baseline information for planning and implementing oral health promotion program appropriate to the all levels of scopes of local situation on the externship site.
 - 1.4. Implementing and evaluating oral health promotion program within under limited resources.
 - 1.5. Presenting the outcomes of oral health promotion program to the local authorities with the suggestions of the follow-up and sustainable activities.
 - 1.6. Presenting/publishing the learning experience at an international scientific meeting or peer-reviewed journal.
2. Plans for developing or improving the extramural externship experience activities.
 - 2.1. Conducting a pilot program to assess the effectiveness and management of varying scheduling arrangements for the extramural externship experience.
 - 2.2. Improving communication and understanding of the extramural externship activities by groups of faculty working in cooperation with site supervisors and the student.
 - 2.3. Periodic on-site visiting and observing the training logistics and facilities.
 - 2.4. Revisiting and updating of the training program and administration according to the feedback from the student, course responsible person, site supervisor and collaborating institution.

【Study method/attention】

1. The extramural externship training will occur when:
 - 1.1. All required coursework has been taken and passed.
 - 1.2. Dissertation proposal and defense has been completed, passed and approved for implementation.
 - 1.3. Incorporated with the dissertation implementation period or after dissertation implementation has been completed.
 - 1.4. During the Year 2, 3 or final year.

2. Organizational structure
 - 2.1. Discuss the proposed externship location and schedule with course instructor, student's supervisor and site supervisor.
 - 2.2. The externship period is under supervision six-week full time or incorporated with the dissertation implementation period by adding another six weeks to the allocated time under supervision.

3. Student Activities
 - 3.1. Discussing and seeking advice from individual advisor for the training schedule and location.
 - 3.2. Being professional in appearance, both in dress and conduct.
 - 3.3. Adhering to the schedule predetermined with the site supervisor.
 - 3.4. Completing the specified tasks as agreed and planned.
 - 3.5. Preparing and presenting the extramural externship project proposal to be approved for practice. The externship project must be developed based on mutual interests and benefits of the training location's stakeholders and the student's learning objectives.
 - 3.6. Preparing is travelling and living on the externship site with the cooperation and advice of the assigned site supervisor.

4. Student Assignments or
 - 4.1. Preparing an individual extramural externship proposal with approval at least three months prior to the externship period for pragmatic arrangement.
 - 4.2. Maintaining and updating individual practice logbook during the externship for self monitoring and site supervisor formative assessment.
 - 4.3. Periodic meeting, communicating and reporting to the site supervisor and course instructor.
 - 4.4. Oral presentation of the project report, receiving comments and feedbacks from the community and local authorities before departing from the externship site back to the Niigata University.
 - 4.5. Three copies of the externship portfolio (final report) describing four fundamental experience of what and how the externship project has been achieved, what substantive knowledge and skills have been developed and learned, how the externship experience has helped gaining mastery of global oral health issues, what changes would be made to have better results of the externship achievement and feedback of the externship program, submitting to the faculty advisor/course director within one week after the externship has been completed.
 - 4.6. Oral presentation of the externship experience at an international scientific meeting.

5. Follow up Activities with Students
 - 5.1. Position and career after graduation.
 - 5.2. Employer satisfaction of the graduate.
 - 5.3. Publication(s) in national and/or international peer-reviewed journal.

6. Responsibilities of Supervising Staff in the extramural externship setting
 - 6.1. Close communication with the faculty and site supervisors and advisors in preparation of the externship site and time, including giving advice on travelling and getting visas to the externship site
 - 6.2. Site supervisor(s) is/are member of the student's extramural externship committee.
 - 6.3. Giving advice on preparation of the externship proposal.
 - 6.4. On-site observation and supervision.
 - 6.5. Prepare written evaluation of the student's performance during the externship period with specific comments on the externship plan of study and behavior.

7. Responsibilities of the Course Director and Academic Advisor from the Niigata University
 - 7.1. Giving advice in the selection of the externship date and location.
 - 7.2. Supervising and guiding the preparation and development of the externship proposal.
 - 7.3. Orientating the student to Site Supervisor, community staff the student will work with.
 - 7.4. Preparing travelling and implementation grant for the student's externship.
 - 7.5. Setting up a site visit date and time for the faculty extramural externship advisor to visit the externship site.
 - 7.6. Regularly communicating with the student and the site supervisors.
 - 7.7. Giving advice on the implementation and evaluation of the externship project.
 - 7.8. Giving feedback and assess the student behaviors and externship project achievement.
 - 7.9. Revision of student and site supervisor's guidelines.
 - 7.10. Serving as point of contact of externship collaborating institutions in mentoring students through the extramural externship period.

8. Arrangements made for student guidance and support
 - 8.1. Informally and formally contact and select the externship location with the collaborating institutes in site selection, assigning site supervisor and preparation of the accommodation.
 - 8.2. Seeking and providing financial support for the externship.
 - 8.3. Providing a telephone number or email address for communication and emergency assistance.
 - 8.4. Preparing health insurance for the student.

9. Facilities and support required at the extramural externship location
 - 9.1. Accommodation or lodging at/nearby the externship site.
 - 9.2. Office space with telecommunication and network access at the externship site and/or collaborating institutes.
 - 9.3. Other facilities as required to implement the proposed externship project.

4. Student Evaluation Criteria

1. Admission Qualifications

	Plan 1	Plan 2
1. Academic Degree		✓
● DDS	✓	
● DDS+Master degree in related area of life science		✓
● Non-DDS+Master degree in related area of life science		
● Non-DDS+Master degree in related area of life science+On(<5yrs)publication in international peer review journal as the first author	✓	
2. Academic achievement	✓	✓
● GPA of the latest degree at 3.00 ("B") or higher	✓	✓
● English transcript	✓	✓
● Letters of recommendation	✓	✓
3. English proficiency(within 2 yrs prior the application)		
● TOEIC > 730		
● TOEFL > 550 (paper-based) or > 213 (CBT) or > 79 (internet-based)		
● IELTS > 6.5		
4. At least one year working experience after receiving the latest degree	✓	✓
5. Ability in self-learning	✓	✓
6. Having research experience	✓	✓*
7. Having passion and enthusiasm in population-based health/oral health area	✓	✓
8. Have confirmation of financial support throughout the study period	✓	✓
9. Have been approved by the Graduate Study Administrative Committee in the Dept. of Preventive Dentistry	✓	✓

* For Non DDS degree

2. Course Evaluation

- ① Evaluation of candidates' performance in each course is based on:
 - Final evaluation of each course:- written examination, oral presentation, special assignment or cumulative of conduct throughout the course.
 - Course Evaluation Form
- ② Minimum grade requirements
 - At least a good level "B" (3.00) grade for all courses.
 - At least a very good level "B+" (3.25) cumulative grade of the whole curriculum

3. Graduation Requirements

- - completed all credits required in the curriculum of study Plan
- - proof of English Proficiency at a middle advanced level by having a minimum of the test score.
- - completed the qualified examination (dissertation proposal defense).
- - Completed the final dissertation defense
- - presented part of the dissertation in an international scientific conference at least once.
- - whole or part of the dissertation published or obtained an acceptance for publication in an international peer review journal.
- - obtained a cumulative grade point average of at least 3.25 ("B+")
- - obtained library and financial clearance from the Faculty and Department.
- - demonstrated good behaviour and discipline.