Entrance Requirements for

GRADUATE SCHOOL of LIFE DENTISTRY

AT NIIGATA

2016 – 2017

THE NIPPON DENTAL UNIVERSITY
CONTENTS

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1. ACADEMIC CALENDAR

1) Academic Year Calendar

2016~2017

Registration....................... March 31, 2017
1st Semester......................... April 1, 2017~September 30, 2017
or October 1, 2016 ~March 31, 2017
2nd Semester ...................... October 1, 2017~March 31, 2018
or April 1, 2017~September 30, 2017

2) Holidays and Vacation

Every Saturday and Sunday
National Holidays
Spring Recess ...................... April 1~10
Summer Vacation .................. July 11~August 31
Winter Vacation .................... December 25~January 4
Foundation Day .................... June 1
2. REGENT BOARD AND COUNCIL

Administration of the Graduate School of Life Dentistry at Niigata
The Nippon Dental University

NAKAHARA Sen, DDS, PhD
   Chairman of the Regent Board
   President
   Professor

SEKIMOTO Tsuneo, DDS, PhD
   Dean of School of Life Dentistry at Niigata
   Professor

SHINKAI Koichi, DDS, PhD
   Dean of Graduate School of Life Dentistry at Niigata
   Professor
3. MEMBERS OF THE COMMITTEE

Dept. Anatomy
   Prof. KAGEYAMA Ikuo, DDS, PhD

Dept. Histology
   Prof. ISHIYAMA Mikio, PhD

Dept. Physiology
   Prof. IWASAKI Shin-ichi, PhD

Dept. Biochemistry

Dept. Pathology
   Prof. OKADA Yasuo, DDS, PhD

Dept. Microbiology
   Prof. KATSURAGI Hiroaki, DDS, PhD.

Dept. Pharmacology
   Prof. NAKAMURA Kenjirou, DDS, PhD.

Dept. Preventive and Community Dentistry
   Prof. KOMATSUZAKI Akira, DDS, PhD.

Dept. Dental Materials Science
   Prof. MIYAGAWA Yukio, DDS, PhD

Dept. Endodontics
   Prof. IGARASHI Masaru, DDS, PhD

Dept. Operative Dentistry
   Prof. SHINKAI Koichi, DDS, PhD

Dept. Periodontics
   Prof. SATO Soh, DDS, PhD

Dept. Removable Prosthodontics
   Prof. KOIDE Kaoru, DDS, PhD

Dept. Crown and Bridges
   Prof. WATANABE Fumihiko, DDS, PhD

Dept. Oral and Maxillofacial Surgery
   Prof. TANAKA Akira, DDS, PhD

Dept. Dental Anesthesiology
   Prof. SANO Kimito, DDS, PhD
Dept. Orthodontics
  Prof. ENDO Toshiya, DDS, PhD

Dept. Pediatric Dentistry
  Prof. SEKIMOTO Tsuneo, DDS, PhD

Dept. Oral and Maxillofacial Radiology
  Prof. TSUCHIMOCI Makoto, DDS, PhD

Dept. Internal Medicine
  Prof. OHKOSHI Shogo, M.D., PhD
4. EDUCATIONAL COMMISSION AND OBJECTIVES

The main objective of the graduate school is to educate prospective researchers with ability, knowledge and humanity in the dental and basic science fields. They will pursue both extensions of dental medicine and improvement of medical welfare.

5. NUMBER OF STUDENTS TO BE ADMITTED

A maximum 18 students will be accepted each year.

6. MAJOR SUBJECTS AND DIRECTORS IN THE DOCTORAL COURSE

Dental Doctoral Research is divided into 3 courses:
1. Basic Science, 2. Applied Science and 3. Clinical Science. Each course includes 3 fields and has 2 main subject programs as listed in the following table.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Fields</th>
<th>Major Subject Programs</th>
<th>Directors</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Histology</td>
<td>ISHIYAMA Mikio</td>
</tr>
<tr>
<td></td>
<td>Oral &amp; Maxillofacial Functions Science</td>
<td>Physiology of Mastication and Salivation</td>
<td>IWASAKI Shin’ichi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Molecular Biology of Saliva and Salivary Glands</td>
<td></td>
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<tr>
<td></td>
<td>Oral &amp; Maxillofacial Infection and Environmental Health Sciences</td>
<td>Oral Infection and Immunity</td>
<td>KATSURAGI Hiroaki</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral Environment and Community Dental Health</td>
<td>ROMATSUZAKI Akira</td>
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<tr>
<td>Courses</td>
<td>Fields</td>
<td>Major Subject Programs</td>
<td>Directors</td>
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<tr>
<td></td>
<td></td>
<td>Functional Occlusal Treatment</td>
<td>KOIDE Kaoru WATANABE Fumihiro</td>
</tr>
<tr>
<td></td>
<td>Oral &amp; Maxillofacial Imaging and Histopathological Diagnostics</td>
<td>Quantitative Diagnostic Imaging</td>
<td>TSUCHIMOKI Makoto</td>
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<tr>
<td></td>
<td></td>
<td>Histopathology of Pathogenic Mechanisms</td>
<td>OKADA Yasuo</td>
</tr>
<tr>
<td></td>
<td>Oral &amp; Maxillofacial Bio-response and Anesthesiology</td>
<td>Pharmacodynamics of Hard Tissue and Salivary Glands</td>
<td>NAKAMURA Kenjiro</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anesthesiology and Resuscitation</td>
<td>SANO Kimito</td>
</tr>
<tr>
<td>3. Clinical Science</td>
<td>Advanced Conservative Dentistry and Periodontology</td>
<td>Advanced Operative Dentistry · Endodontics</td>
<td>IGARASHI Masaru SHINKAI Koichi SATO Soh</td>
</tr>
<tr>
<td></td>
<td>Oral &amp; Maxillofacial Growth and Development</td>
<td>Pediatric Oral Behavior Science</td>
<td>SEKIMOTO Tsuneo</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Orthodontics and Dentofacial Orthopedics</td>
<td>ENDO Toshiya</td>
</tr>
<tr>
<td></td>
<td>Oral &amp; Maxillofacial Surgery and Systemic Medicine</td>
<td>Oral and Maxillofacial Surgery</td>
<td>TANAKA Akira</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oral and Maxillofacial Surgery Clinical Examination</td>
<td>OHKOSHI Shogo</td>
</tr>
</tbody>
</table>
# 7. MAIN STUDY CONTENTS

<table>
<thead>
<tr>
<th>Major Subject Programs</th>
<th>Theme of the Study</th>
</tr>
</thead>
</table>
| **Comparative Morphology of Oral Hard Tissue and Mucous Membranes** *(KAGEYAMA Ikuo)* | 1. Dental Anthropology  
2. Morphogenesis of the head and neck  
3. Clinical anatomy of the maxillofacial region |
| Historical Study *(ISHIYAMA Mikio)* | 1. Comparative histology of the gustatory organ  
2. Morphological analysis of taste transmission  
3. Intracellular localizations of secretory relevant proteins in the parotid gland |
| **Physiology of Mastication and Salivation** *(IWASAKI Shin’ichi)* | 1. Central mechanisms of mastication and salivary secretion  
2. Central transmission mechanisms of oral sensory information  
3. Developmental and evolution biological of oral function |
| **Molecular Biology of Saliva and Salivary Glands** | 1. Mechanism of membrane-fusion in exocytosis  
2. Pathological biochemistry on saliva and salivary glands in animal models |
| **Oral Infection and Immunity** *(KATSURAGI Hiroaki)* | 1. Analyses of host response against periodontal pathogens  
2. Studies of aminopeptidase on oral bacteria  
3. Identification of cariogenic and periodontopathic bacteria by DNA analysis |
| **Oral Environmental Community Dental Health** *(KOMATSUZAKI Akira)* | 1. The evaluation of a community-based oral health care program for prevention effectiveness  
2. A field study of oral health public services associated with health promotion  
3. Development of a new masticatory function assessment system employing a laser beam for oral health |
| **Developmental Science of Oral Biomaterials** *(MIYAGAWA Yukio)* | 1. Development of magnetic metal-resin composites  
2. Study on restoration using zirconia  
3. Study on corrosion, tarnishing and abrasion of dental materials |
| **Functional Occlusal Treatment** *(KOIDE Kaoru)* | 1. Study on the occlusal forms for denture wear  
2. Study on the position of the condyle under various conditions  
3. Development and clinical examination of the condyle position using the side examination of stomatognathic function |
| **Functional Occlusal Treatment** *(WATANABE Fumihiko)* | 1. Development and clinical evaluation of implant materials and bone augmentation materials  
2. Study on tooth reduction device and method  
3. Torsional strength of dental restorative materials |
| **Quantitative Diagnostic Imaging** *(TSUCHIMOCHI Makoto)* | 1. Fundamental research for the development of radiopharmaceuticals for oral cancer  
2. Development and clinical use of the small high resolution gamma camera  
3. Gene therapy for oral squamous cell carcinoma |
| **Histopathology of Pathogenic Mechanisms** *(OKADA Yasuo)* | 1. Comprehensive study on genesis, proliferation, invasion, metastasis, diagnosis and treatment of oral cancer  
2. Study on tumorous property acquisition of the lining epithelium of odontogenic cyst  
3. Study on histopathological malignancy grade, angiogenesis and metastasis of malignant tumor of salivary gland |

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7
<table>
<thead>
<tr>
<th>Major Subject Programs (Director)</th>
<th>Theme of the Study</th>
</tr>
</thead>
</table>
| Pharmacodynamics of Hard Tissue and Salivary Glands (NAKAMURA Kenjirou) | 1. Study on secretory mechanisms in the salivary gland  
2. Study on substances suppressing cariogenicity  
3. Mechanisms of adrenal catecholamine secretion |
| Anesthesiology and Resuscitation (SANO Kimito) | 1. Study of localization of anesthetics  
2. Study of qualitative comparison of sedation  
3. Study of preemptive analgesia |
| Advanced Operative Dentistry · Endodontics (IGARASHI Masaru) | 1. Study on healing of dental pulp and periapical tissue  
2. Study of biomechanical and biochemical root canal preparation  
3. Research on biological properties of cells related to pulpal and periapical diseases |
| Advanced Operative Dentistry · Endodontics (SHINKAI Koichi) | 1. Study on tooth adhesion of dental restorative materials  
2. Study on prevention and control for dental root caries  
3. Development of dental adhesive materials with a calcification promoting function |
| Periodontology (SATO Soh) | 1. Study on the periodontal tissue regeneration  
2. Study of the periodontal-systemic connection  
3. Study on esthetics in periodontal treatment |
| Pediatric Oral Behavior Science (SEKIMOTO Tsuneo) | 1. Study of oral diseases and the underlying pathomechanisms  
2. Study of the factor of tooth eruption  
3. Study of salivary protein and dental caries prevention |
| Orthodontics and Dentofacial Orthopedics (ENDO Toshiya) | 1. Biomechanical analysis of orthodontic treatment  
2. Early treatment for malocclusion  
3. Characteristics of orthodontic adhesive |
| Oral & Maxillofacial Surgery (TANAKA Akira) | 1. Experimental study on anti-cancer drug sensitivity test for oral cancer chemotherapy  
2. Experimental study on regeneration of salivary gland, nerve and tooth  
3. Clinical and experimental study on oral candidiasis |
| Clinical Examination (OHKOSHI Shogo) | 1. Research on the interrelation between oral diseases and systemic diseases from the viewpoint of the clinical laboratory  
2. Sleep apnea syndrome and fatty liver  
3. Differentiation of dental pulp stem cell |
8. COMPLETION OF THE DOCTORAL COURSE

The doctoral course normally takes four years to complete, but it is possible to complete it in three years.

9. ADMISSION FOR ENROLLMENT TO THE GRADUATE SCHOOL

1) General Statement
   Applications for admission are selected on the basis of their qualifications, regardless of race, color, sex or nationality.
   Qualities such as interest, intellectual curiosity, perception and ability to reason, are the prime requirements in addition to a record of academic competence. Candidates for a degree are admitted only on a full time resident basis.

2) Requirement for Admission
   ① Regular graduate students from a dental or medical school
      An applicant who intends to become a candidate for a degree is expected to have graduated from a dental or medical school in March of this year, or has already graduated. Applicants from a medical school are restricted to the clinical science course and part of the applied science course.
      Please check before applying. In order to practice clinical treatment you need a certificate of at least 3 years clinical experience.
   ② Graduate students besides those from dental and medical schools
      The major general requirement is an approved master degree or equivalent education as determined by the qualification screening committee.

Note: Applicants are expected to be able to converse in Japanese.

10. DOCUMENTS REQUIRED FOR APPLICATION

1) Two application forms from the office should be completed, and two photographs of the applicant's face (4 x 5 cm, front view, no cap, black and white, and taken within 3 months; color photos are also accepted) should be attached to the forms. A second choice of program may be selected.
   The completed forms should be returned to the Admission Office by September 1, 2016 or February 20, 2017.

2) A copy of the diploma or a certificate of expected graduation.

3) A sealed transcript issued from the president of the university.
   It is accepted only when the seal is opened at our office. A transcript is able to replace the graduate examination. Applicants may also provide two letters of recommendation from faculty members familiar with their academic qualification.

4) A health examination record which includes details of eyesight, color, sense, auditory-sense tuberculosis, psychopathic and other disorders needs to be submitted.
11. EXAMINATION FEE

1) ¥20,000.

2) Procedures necessary for the examination
   Present the documents with the examination fee to the Admission Office. Application must be received no later than September 1, 2016 or February 20, 2017.
   Numbered admission tickets will be sent by airmail or facsimile to other countries from Japan.
   Please include your facsimile number, if you (or your school) have one.

12. SUBJECT OF EXAMINATION

1) Essay about 600 words in English or 1600 words in Japanese.

2) An interview is requested by members of the graduate program committee concerning the individual’s program.

3) Time Schedule of Examination
   You should bring your numbered admission ticket to the examination.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 6, 2016</td>
<td>From 11:00 to 12:00</td>
<td>Essay</td>
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<tr>
<td>or February 24, 2017</td>
<td>From 14:00〜</td>
<td>Interview</td>
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</table>

4) Place of the Examination
   The Nippon Dental University School of Life Dentistry at Niigata is located at 1-8 Hamauracho, Chuo-ku, Niigata, Japan, 951-8580
   Tel. +81-25-267-1500  Fax. +81-25-267-1134

5) Announcement of the Result of the Examination
   The results will be announced on September 8, 2016 or February 28, 2017 on the Bulletin board of the Niigata Faculty, or a letter of success will be sent by e-mail or fax.

13. EXPENSES

Expenses                     To be paid at the time of
Entrance fee                ¥200,000...............Admission
Tuition                     ¥550,000...............Beginning of the year
General insurance           ¥8,000...............Beginning of the year
Total                       ¥758,000...............Total expense for the first year

Notice!
No costs mentioned above are refundable for any reason.
Students whose universities participate in the mutual science promotion program are entitled to a 20% discount on their tuition.
Following is a list of member universities:
Chung Shan Medical University
University of Michigan
University Paris 7 DENIS-DIDEROT
Sichuan University, West China College of Stomatology
University of Bern
The Hebrew University
The University of British Columbia
University of Manchester
Mahidol University
University of Turku
University of the Philippines
The University of Pennsylvania
The University of Adelaide
University of Otago
Health Sciences University of Mongolia
Baltimore College of Dental Surgery, University of Maryland
The University of Hong kong
Faculty of Medicine/Dentistry, The Danube Private University
(in the order of joining as members of sister schools)

1) Registration for Admission

Registration for admission must be received by the last day of March or September. Please transfer all expenses (tuition and other fees) into the school account.

Sponsorship or bank certification for the full expenses of the four years is required.
14.ACADEMIC REGULATIONS AND PROFESSIONAL REQUIREMENTS

1) Financial Requirements
   Tuition fee, studying and living expenses have to be fully prepared by students. In addition they need financial certification of sponsorship during the four years or bank certification.

2) Student Curriculum
   Students plan their curriculum in consultation with their Program Director and Research Advisor.

3) Credit Requirement
   Credit is granted only for those courses that have been approved by the Committee of Program Directors as listed in the bulletin. The time required to achieve 1 credit is the total time for lectures, seminars and practices. Lecture units are 45 minutes, seminar units are 45 minutes x 2 and practical units are 45 minutes x 3, and they all run for approximately 15 weeks each.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td><strong>Comparative Morphology of Oral Hard Tissue and Mucous Membranes</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
<tr>
<td><strong>Histology</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
<tr>
<td><strong>Physiology of Mastication and Salivation</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
<tr>
<td><strong>Molecular Biology of Saliva and Salivary Glands</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
<tr>
<td><strong>Molecular Biology of Saliva and Salivary Glands</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
<tr>
<td><strong>Oral Infection and Immunity</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
<tr>
<td><strong>Oral Environmental and Community Dental Health</strong></td>
<td>Lecture 3, Seminar 3, Practice 4, Thesis Submission 6</td>
</tr>
</tbody>
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## ② Applied Science

<table>
<thead>
<tr>
<th>Subject</th>
<th>Lecture</th>
<th>Seminar</th>
<th>Practice</th>
<th>Thesis Submission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmental Science of Oral Biomaterials</td>
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<tr>
<td>Functional Occlusal Treatment</td>
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<td>Anesthesiology and Resuscitation</td>
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### Clinical Science

<table>
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<th>Subject</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Advanced Operative Dentistry · Endodontics</td>
<td>Lecture 3.0, Seminar 3.0, Practice 4.0, Thesis Submission 6.0</td>
</tr>
<tr>
<td>Periodontology</td>
<td>Lecture 3.0, Seminar 3.0, Practice 4.0, Thesis Submission 6.0</td>
</tr>
<tr>
<td>Pediatric Oral Behavior Science</td>
<td>Lecture 3.0, Seminar 3.0, Practice 4.0, Thesis Submission 6.0</td>
</tr>
<tr>
<td>Orthodontics and Dentofacial Orthopedics</td>
<td>Lecture 3.0, Seminar 3.0, Practice 4.0, Thesis Submission 6.0</td>
</tr>
<tr>
<td>Oral and Maxillofacial Surgery</td>
<td>Lecture 3.0, Seminar 3.0, Practice 4.0, Thesis Submission 6.0</td>
</tr>
<tr>
<td>Clinical Examination</td>
<td>Lecture 3.0, Seminar 3.0, Practice 4.0, Thesis Submission 6.0</td>
</tr>
<tr>
<td>All Courses / Core Classes</td>
<td>Lecture 1.5, 1.5, 1.5</td>
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<tr>
<td>Common Subject I</td>
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<td>Common Subject II</td>
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<tr>
<td>Common Subject III</td>
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</tbody>
</table>
15. PROGRAM REQUIREMENTS FOR THE DOCTORAL COURSE

1) Each student must complete a major subject, associated subjects and other subjects totaling at least 30 credits, under the guidance of the Director. With permission of the Committee of the Graduate Course, students are able to take graduate level lectures at other universities and any credits achieved may be approved for addition up to a maximum of 10 credits.

2) After completion of all course requirements, candidates must demonstrate adequate mastery of their field, through both a written and comprehensive oral examination.

3) The dissertation will be based on original experimental research performed under the guidance of the Program Director.

16. PRESENTATION OF THE DISSERTATION

Students wishing to obtain a doctorate by presenting a thesis must submit the necessary forms to the Graduate Office. The dissertation will be preliminarily inspected by the inquiry committee comprised of three members. It will be evaluated in accordance with the standards deserving of a doctoral degree. At this time the student’s ability to comprehend the major significance of the chosen field will be tested by an oral examination. After clearing the preliminary examination, the dissertation will be advanced to a full meeting of all committee members who will discuss the qualifications of academic competence.

Acceptance is determined by more than two-third approval of all members of the committee. A graduate degree (PhD) is awarded by The Nippon Dental University School of Life Dentistry at the Niigata graduation ceremony in March.

17. DISCIPLINE

The following may be cause for disciplinary action:

1) Students who do not pay school expenses by the due date.

2) Students who conduct themselves unsocially or immorally.

3) Students who find it impossible to graduate.

4) Students who stay over 8 years.

5) Students who do not attend class regularly.

Punishment for the aforementioned will be decided by members of the committee. Discipline may consist of cautioning, suspension or expulsion from school.
Application for Admission of The Nippon Dental University
Graduate School of Life Dentistry at Niigata.
1-8 Hamauracho, Chuo-ku, Niigata, 951-8580 Japan.
Tel: +81-25-267-1500
Fax: +81-25-267-1134

1. Full name (Capitalize Family Name). family first middle

漢字 (in Kanji) if available.

□ Male □ Female

2. Date, Place of Birth and Nationality.
Month Day Year

Nationality/Citizenship

3. Marital Status □ married. □ unmarried

If you are married and will be accompanied by family members, indicate their name(s) and date(s) of birth, and nationality

4. Mailing addresses
1）Home Tel:

Fax:

2）Office Tel:

Fax:

5. University education:
Period (from/to) Name of Univ.

Place Subject. Degree.
6. Graduate course (major subject) you wish to study.
   1st choice. 2nd choice

7. Previous employment (if any)
   Institution Location Position From/To

8. Academic awards (please indicate title and year)

9. Language ability (Evaluate using Excellent, Good, or Fair)
   Writing Reading Speaking
   Japanese
   English
   Others

10. Previous Stay in Japan
    Place Year and duration Purpose

11. Sponsor or Financial Guarantor
    Name Position or title
    Relationship
    Address:
    Tel: Fax:
    Signature

12. Contact in Case of Emergency
    Full name
    Address:
    Tel: Relationship
    Date Signature