

# PROCEEDING

INTERNATIONAL MULTIDISCIPLINARY  
CONFERENCE AND CALL  
FOR PAPERS

# ADRI<sup>7</sup><sub>th</sub>

## OPPORTUNITIES AND CHALLENGES TOWARDS ASEAN INTEGRATION

(Workshop As An Organization Profession,  
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## PREFACE

I would like to express our deepest gratitude to Allah the Almighty God for all the grace and guidance that has been given to all of us. This is the 5<sup>th</sup> time the ADRI International Conference is being held. I extend a warm welcome to all members of ADRI, invited speakers and guests. I sincerely hope you will find the programme that has been put together satisfactory and the presentations useful to you. I urge you to make use of the opportunity here provided to establish useful networks.

We have chosen to focus on “Opportunities and Challenge Towards ASEAN Integration” as the theme of the conference. There will be MoU Multi Campus and OJS (Open Journal Systems) Training. The Abstract book ADRI 2017 contains 180 selected articles from 208 participants. The participants come from academia such as lecturers, teachers and researchers.

This conference is the series of the International Conference organized by P-ADRI (Perkumpulan Ahli dan Dosen Republik Indonesia). The first was held in Lombok, Mataram; The second was held in Denpasar, Bali, on October 15 to 17, 2016; The third was held in Surabaya, East Java, on November 10, 2016; the fourth was held in Pontianak, West Kalimantan on November 6 to 7, 2016, and The fifth was held in Padang, West Sumatera, on February 4 to 5, 2017. The fifth International Conference in Padang's speakers come from 5 countries; United Kingdom, Japan, Malaysia, Brunei Darussalam, and Indonesia. Call papers participated in an International conference in Padang as much as 180 papers come from Sumatera, Java, and Kalimantan province.

The International conference has been made to be held as the realization of cooperation between ADRI, and Universiti Sains Malaysia, and all the universities participating in the MoU/MoA multicampus

On this occasion, let us give awards and gratitude to:

- Dra. Khofifah Indar Parawansa (MENSOS RI)
- Dr. Paristiyati (Direktur Pembelajaran Kemenristek Dikti RI)
- Prof. Dr. H. Irwan Prayitno, S.Pi, M.Sc (Gubernur Sumatera Barat)
- Prof. Hywel Coleman, OBE, M.A. Ph.D (University of Leeds, United Kingdom)
- Yudi Fernando Ph.D (University Science Malaysia)
- Dr. H. Asri Lubis (UTHM Malaysia)
- Dr. Anton Muhibbudin (Core to core Japan)

In special award and we thanks to :

- Dr. H. Achmad Fathoni Rodli (General Chairman DPPP-ADRI)
- Prof. Dr. Atmazaki, M. Pd ( Chairman of the Council ADRI Sumbar)
- The board of trustees and Governing ADRI DPD Sumbar
- Rector and Leadership College participants MoU Multicampus
- Board of Editor, Executive Editors, and Organizing Committee in ADRI Multidisciplinary International Conference and Call for Papers in Padang
- The sending of papers and parallel scientific conference speaker.

In addition, to the International conference, at the same time as a multi-campus realization cooperation activities, as well as activities carried out:

1. Inauguration of ADRI West Sumatera.

2. Training Open Journal System (OJS), as we know that from 2017 Kemenristek Dikti already requires all scientific journal should be based online by implementing OJS and scientific work

for the maintenance of mandatory functional academic journals published in the OJS.

Proceeding books are published after the conference, and distributed to participants in the form of compact disk (full papers).

[www.p-adri.co.id](http://www.p-adri.co.id)

Hopefully, these abstract books may give benefit to all of us for the development of science, technology, education, art, and culture. In addition, it is also expected to be a reference for the nation and state-building efforts so that science and technology becomes a strong pillar in the face of the ASEAN Economic Community.

Lastly, we would like to acknowledge our hard-working friends from the committees who have been so enthusiastic in ensuring the detail of the conference. We do appreciate the whole lot you have worked on and look forward to the successful conference.

Sincerely yours,  
Padang, January 29, 2017  
Chief Executive,

Ir.Rudi Kusuma, MP, Ph.D.  
Chairman Committee ADRI Sumbar

# Role of Palatal Rugoscopy in Disaster Victims Identification

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**Abstract.** The Republic of Indonesia is located in the area which is prone to disasters. In international hazard maps, natural disasters Indonesia occupies the highest position for tsunamis, landslides and volcanic eruptions. In this condition, the forensic medical team and forensic odontology is needed to identify victims. Dental records, fingerprint and DNA comparisons are probably the most common techniques used in this context, allowing fast and reliable identification processes. However, under certain circumstances, they cannot always be used; but interestingly palatal rugae patterns are preserved. Palatal rugae (PR), are asymmetrical and irregular elevations of the oral mucosa in the anterior third of the palate, arranged in a transverse direction from the palatine raphe located in the mid-sagittal plane. Study of palatal rugae (rugoscopy) can lead us to important information and help in a person's identification. Various investigators have implied that palatal rugae are unique to each individual and they can be used successfully in human identification.

Keyword : rugae palatina, rugoscopy

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## I. INTRODUCTION

The Republic of Indonesia is located in disaster prone areas. Indonesia high vulnerability to disasters because of the geographical position of Indonesia on the end of three world slabs movement, i.e. Eurasia, Indo Australia and the Pacific. Other conditions that affect Indonesia geographically is the position in the volcanic ring. Natural disasters are disasters caused by changes in natural conditions of the universe (wind: hurricanes, storms, cyclones; soil: erosion, sedimentation, landslides, earthquakes; water: floods, tsunami, drought, soil water infiltration; and fire: fires and volcanic eruptions. United Nations (UN) International Strategy for Disaster Reduction (UN - ISDR) put Indonesia in the category of countries with the greatest risk of natural disasters. In international hazard maps, natural disasters Indonesia occupies the highest position for tsunamis, landslides and volcanic eruptions [1].

In this condition, the forensic medical team along with forensic odontology is necessary to aid in the identification process of victims. According Pederson, forensic odontology is a branch of dentistry which studies ways of handling and examination of dental evidence objects and ways of evaluation and presentation of the findings of the tooth to the interests of justice. Identification of an individual is a prerequisite for certification of death and for personal, social and legal reasons. Human identification is based on scientific principle mainly involving fingerprints, dental records and DNA analysis. Limitations to the use of fingerprints occur in situations where the hands are charred or mutilated [2]. Dental records, fingerprint and DNA comparisons are probably the most common techniques used

in this context, allowing fast and reliable identification processes [3]. However, under certain circumstances, catastrophic accidents involving plane crashes, fires and explosions can destroy the finger prints so they cannot always be used; but interestingly palatal rugae patterns are preserved [4].

Palatal rugae are irregular asymmetric ridges of mucous membrane extending lateral from the incisive papilla and the anterior part of the median palatal raphe, which is just behind the maxillary central incisor teeth [5]. In the literature there is consensus opinion that palatal rugae remains fairly stable in number and do not undergo any change due to growth, ageing, tooth extraction and disease. Van der Linden proved that the anterior rugae do not increase in length after 10 years of age [6,7,8].

## II. RESULT AND DISCUSSION

### Palatal Rugoscopy

Palatoscopy or palatal rugoscopy is the name given to the study of palatal rugae in order to establish a person's identity. The use of palatal rugae was suggested as one of the methods of identification in 1889 by Harrison Allen. Various investigators have implied that palatal rugae are unique to each individual and they can be used successfully in human identification [9]. Palatal rugoscopy is the name given to the study of palatal rugae. Palatal rugoscopy was first proposed in 1932, by a Spanish investigator named Trobo Hermosa.

### Analyzing Palatal Rugae

Calcorrugoscopy is the most common method to analyze palatal rugae using dental cast. To record the rugae, alginate impression material prepared as instructed by the manufacturer. The dental cast were made using type IV

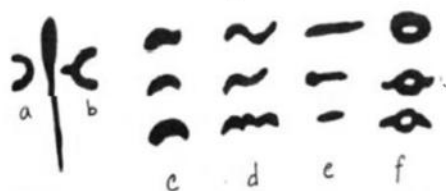


dental stone to obtain greater strength and accuracy. A plaster base was positioned for each cast to preserve the cast model. The rugae outlines were delineated under spotlight using magnifying glass and sharp 0.1 HB graphite pencil. All rugae pattern were then assessed and measurements were conducted using a digital sliding calliper and a protactor (for angles) [10,11].

#### Classification of Palatal Rugae

The most common method which is used is Lysel [12] classification in 1955 is the most important, and has been used widely in research involving rugae. Rugae are measured in a straight line between the origin and termination and are grouped into three categories: Primary 5 mm or more; secondary 3 to 5 mm; fragmentary 2 to 3 mm; rugae smaller than 2 mm are disregarded. This is rather a simplified picture of the intricate form that rugae usually present.

Morphology varies from wavy, curved, circular, straight to unified. Curved: a crescent shape that is curved gently. Wavy: if there is a slight curve at the origin or termination of curved rugae. Straight: They run directly from their origin to termination. Circular: Rugae that form a definite continuous ring. Unification occurs when two rugae join at their origin or termination. Diverging: If two rugae had the same origin from the midline but immediately branched. Converging: Rugae with different origins from midline, but which joined on their lateral portion [13].



Picture 1. Morphology of Palatal Rugae [20]

a. divergent; b. convergent; c. curved; d. wavy; e. Straight; f. circular

#### Role of Palatal Rugoscopy

Kocher et al study found out that palatal rugae are a sufficient characteristic to indicate identity through discrimination. In view of previous findings, palatal rugae can be used as a personal print and an additional method of differentiation between Indian male and female children. Based on the shape of rugae, curved and sinuous forms are frequently seen in males, while in females, curved and line forms are more common [14]. Saraf et al report that palatal rugae were statistically different in the sexes [15]. A significant gender difference was noticed in the circular type, which is higher in males. Subha concluded that north Indian males have more number of rugae than females. The determination that males have more primary rugae than females can be attributed to the extra period of growth among males yielding broader palates [16].

Although there are recognizable racial variations, the pattern of rugae is obviously very useful for personal and racial identification because of the varying shape, proportion, and sequences. Study by Kolude et al observed several rugae similarities and no significant differences in the primary rugae shapes of the Igbos and Yoruba ethnicities that are domiciled in south eastern and south western Nigeria [17].

In Indonesian research, a study conducted on the palatal rugae pattern of differences in population Deutero Malay descent with the Chinese in the Middle Javanese by Eva Tri in 2013, with the result that there is a significant difference in the pattern of the palatal rugae of a descendant resident of Second Malay and Chinese ancestry. This indicates that the palatal rugae also can be used to identify a person's race or offspring [18].

There is a hereditary role in the palatal rugae pattern, so it can be an important tool in the identification of a person and determine one's family lineage. On a study to patients (30 individuals) attending the Narsinhbhai Patel dental college and hospital, each palatal rugae pattern of the 30 offspring were compared with the corresponding palatal rugae patterns of their respective parents. The present study has shown a strong positive and significant correlation of the direction pattern of palatal rugae between offspring and their parents [19]. Study by Patel was carried out to assess whether there is any hereditary pattern in palatal rugae patterns between the offspring's and their parents. The correlation of palatal rugae patterns, father, offspring, and mother respectively, which suggest a positive correlation in shape pattern between offspring and their parents [4].

### III. CONCLUSIONS

It is sufficiently characteristic to discriminate between individuals because no two palatal rugae are identical. Palatal rugae can be one of the tools for personal identification in forensic odontology. Palatoscopy is one of the easiest, and cheapest methods in disaster victim identification because of uniqueness, stability, and postmortem resistance.

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