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Hibah Kompetitif Penelitian untuk Publikasi Internasional Batch 1

The Dental Traits of Javanese



Peneliti:

Dra. Myrtati Dyah Artaria, MA., Ph.D.

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Reply | myrta artaria to Maciej, Maciej show details Oct 13

Dear Prof. Henneberg, Chief Editor of HOMO,

I would like to enquire if there is any news regarding the manuscript I submitted, within the topics of dental anthropology that I submitted. Are there any revision I should do?

Thank you for your information

Best regards, Myrtati Dyah Artaria (Mita) for "Homo" journal InboxX

Reply | Maciej Henneberg to me show details Oct 6

Dear Myrta

I have already sent your paper for preliminary assessment to my co-Editors. Format is not precisely compatible with our Instructions for Authors, but this can be fixed if, following reviews, we ask you for revisions. Your paper has been formally submitted to HOMO.

Best wishes

Maciei

On 5 Oct 2009, at 03:36, myrta artaria wrote:

Dear Chief Editor,

I am sending an article that I would like you to consider to be published in the journal that you are managing.

I hope that this article will be accepted.

Best regards, Myrtati D. Artaria (Mita)

<the dental traits of Javanese.doc>

(Professor) Maciej Henneberg, PhD, DSc, FAIBiol. Wood Jones Professor of Anthropological and Comparative Anatomy University of Adelaide, Medical School Adelaide, SA 5005 Editor-in-Chief, Journal of Comparative Human Biology "HOMO", Elsevier

1.JCHB_Instructions.pdf 1506F. View Download Re: the article

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Reply |Diane Hawkey to myrta show details Aug 4

Hi Myrta,

30 people for sample is OK, but I don't know much about the people in your sampling area, just in case they have much variation, you will be able to see them in a bigger number of sample.

It's a good idea that you have a look at the dental plaques made by ASU. They cost \$70 each.

All best wishes, Diane myrta artaria to Diane show details Jul 16

Dear Dr. Diane Hawkey,

I recently observe the teeth of 30 individuals from Java, and the result is like in this attachment. What improvement can I make for this result? I have sent this to a journal, but I haven't gotten the feedback from the editor. Perhaps, you as the expert of this field, can give me suggestions?

Thank you for your time.

myrta artaria

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Thu, Oct 15, 2009 at 6:50 PM

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Dear Dr Artaria

Your paper THE DENTAL TRAITS OF JAVANESE has been reviewed by the Editors of JCHB Homo and found acceptable for the journal.

With best wishes

Maciej Henneberg Editor-in-Chief

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Naskah Artikel

Title page

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- 6. Grant sponsorship: -
- 7. Abbreviated title (running headline): Dental Traits of Javanese

ABSTRACT

This study describes the dental crown morphology of 30 Javanese of known sex and age, in Surabaya, East Java. The purpose was to compare the dental traits to the Sundadont and Sinodont Dental Traits, for indication of admixtures in the area of East Java, especially in Surabaya. The traits being observed were shovel shape, double shovel, winging, tuberculum dentale, interruption groove, canine distal accessory ridges, Carrabelli's cusp, odontomes, premolar accessory ridge, and uncommon shape/place of lateral incisors. The results showed that the sample matched the descriptiom of the dental traits of Sundadont, but they also showed evidence of Sinodont types, such as double shovel. The Sundadont is characterized by conservative pattern, trait retention, and less elaboration. The results may lead to the conclusion that native Indonesian, especially those who live in the coastal area, practice mix-marriage or exogamous marriages in the past.

KEY WORDS: Jawa, Sundadont, Sinodont, shovel shape, double shovel, Carrabelli's Cusp.

INTRODUCTION

Studies in dental anthropology have never been conducted on Indonesians even though the area has a rich variety of peoples and cultures. The variety of populations may provide valuable data regarding human evolution (Hillson, 2002), migration patterns (Scott and Turner, 2000), and for solving forensic cases (Brown, 1992), so it is useful to initiate studies in dental anthropology in this area.

MATERIAL AND METHODS

The sample was 30 individuals (22 females, 8 males) from the Surabaya, East Java (Indonesia), whose sex and age were known (age range 15 to 26 years). The dental traits examined were shovel shape, double shovel, winging, tuberculum dentale, interruption groove, canine distal accessory ridges, Carrabelli's cusp, odontomes, premolar accessory ridge, and uncommon shape/place of lateral incisors. Dental traits were scored using the descriptions in Scott and Turner (2000).

RESULTS AND DISCUSSION

Shovel shape was very common, although the expressions were mostly from 0 to 3 (Table 1) of ASU shovel shape dental plaques. This is expected given the Asian ancestry of the group, especially the Sundadont. The most frequent degree of expression for upper first incisor was 2, and 0—no shoveling—for the lateral incisors. According to Scott and Turner (2000), the frequency of winging in recent Southeast Asian people is around 20% to 50%. It was also noteworthy that the frequency of the sample who did not have shovel shape upper incisor were quite high (Table 1), implying that shovel shape was not a good trademark for deciding the "race" of an unknown skeletonized individual. In this sample, the males exhibit less degree of shoveling thatn the females.

Table 1. The Frequencies of Shovel Shape Incisors

	Upper teeth				Lower teeth
Shovel	Rig	ht	Left		
	UI2	UI1	UII	UI2	I and C
0	0.55	0.24	0.29	0.50	0.90
1	0.21	0.31	0.32	0.27	0.10
2	0.17	0.34	0.32	0.23	0.00
3	0.07	0.10	0.07	0.00	0.00
	1.00	1.00	1.00	1.00	1.00

UI1: upper central incisor, UI2: upper lateral incisor, I: incisor, C: canine

Some samples (24% or 7 out of 29 individuals) demonstrated double shovel on the upper first (central) incisors (Table 2). The frequency of double shovel in recent Southeast Asia predicted by Scott and Turner (2000) was only 5% to 18%. The result of this research may as well imply the admixture of the Surabayan people, who live in the coastal area of northern East Java, with the Sinodont—people from the continent of China who migrated to the Indonesian areas during the past centuries. All of the double shovel was found in the upper central incisors, but only in a weak expression—scored 1.

Moreover, the samples who have the double shovel demonstrated fair skin and straight hair, typical of Mongoloid from the Asian continent.

Table 2. The Frequencies of Double Shovel Shape Incisors

Double Shovel	Right		Left		
	UI2	UI1	UII	UI2	
0	0.90	0.76	0.78	0.90	
1	0.10	0.24	0.22	0.10	
	1.00	1.00	1.00	1.00	

UI1: upper central incisor, UI2: upper lateral incisor

Incisor winging occurred in 18% to 21 % of the sample (Table 3). Very high frequencies of winging are usually found in Sinodont dentitions, especially living in northeast Siberia and north America. The people of Java are labeled Sundadont, and these data suggest that Sundadont groups may also have quite high frequencies of winging, around 15% to 25% of the recent Southeast Asian people, according to Scott and Turner (2000).

Table 3. The Frequencies of Tuberculum Dentale (TD), Interruption Groove (IG), Winging, and Uncommon shape/place of Lateral Incisors

-	TI)	IC	j	Wing	ging	L	I
	RI1	LI1	RI1	LII	RI1	LI1	RI2	LI2
0	0.79	0.82						
1	0.10	0.04		141				
2	0.07	0.14						
3	0.03	0.00						
Absent			0.93	0.93	0.79	0.82	0.90	0.87
Present			0.07	0.07	0.21	0.18	0.10	0.13
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

RI1: right central Incisor, LI1: left central incisor, RI2: right lateral incisor, LI2: left lateral incisor

Expression of tuberculum dentale was weak to moderate, but most individuals lacked a tuberculum dentale on their central incisors (Table 3). Only one individual showed a pronounced tuberculum dentale. This was typical of Sundadont dentition that mostly did not have elaboration of dental traits. In this sample, the males exhibit less degree of expression than those of females.

According to Scott and Turner (2000), the Sunda-Pacific people—including the Southeast Asians—may have 20% to 40% of the population exhibiting interruption groove. However, interruption groove on the upper first incisors occurred in only 7% of the sample of this current research (Table 3).

The uncommon shape/place of lateral incisors were found in some of the sample. Some upper lateral incisors (10% to 13%) were undergoing rotation, crowding, or reduced size. Reduces size lateral incisor is especially interesting because this is typical of European descent dental traits.

Canine distal accessory ridge was uncommon, 72% to 73% of the upper canine did not show any distal accessory ridges (Table 4). This was to be expected as the low to moderate frequencies of robust type teeth were typical of the Sundadont. The occurrence of distal accessory ridges in the lower canine were even less common, as expected in most mandibular dentition. Similar to shoveling and tuberculum dentale, males also showed less degree of expression in distal accessory ridge.

Table 4. The Frequencies of Distal Accessory Ridge (DAR)

	Upper		Lower		
DAR	RC	LC	RC	LC	
0	0.72	0.73	0.93	1.00	
1	0.03	0.00	0.03	0.00	
2	0.03	0.07	0.00	0.00	
3	0.14	0.13	0.03	0.00	
4	0.07	0.07	0.00	0.00	
	1.00	1.00	1.00	1.00	

RC: right canine, LC: left canine

Carabelli's trait complex was expressed in almost half of the cases (Table 5). The degree of expression ranged from 0 to 7. It is notable that the expression of Carrabelli's cusp on the right and left first molar in this sample may be assymetrical.

Table 5. The Frequencies of Carrabelli's Cusp

	RM1	LM1
0	0.52	0.58
1	0.00	0.00
2	0.04	0.00
3	0.00	0.00
4	0.20	0.15
5	0.20	0.27
6	0.00	0.00
7	0.04	0.00
	1.00	1.00

RM1: right first molar, LM1: left first molar

The frequencies of odontomes on the premolar were quite surprising in this sample, it was exhibited in 2 out of 30 (7%) individuals (Table 6). Scott and Turner (2000) predicted that 1% to 3.5% of recent Southeast Asian people have the traits. Other dental traits found in premolar was the accessory ridge, which were found in 50% of the sample, on the second of upper premolar.

Table 6. The Frequencies of Odontomes

Odontomes		Up	per			Lov	wer	
	RP2	RP1	LP1	LP2	RP2	RP1	LP1	LP2
Absent	1.00	1.00	1.00	1.00	0.92	0.92	0.93	0.92
Present	0.00	0.00	0.00	0.00	0.08	0.08	0.07	0.08
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

RP2: right premolar distal. RP1: right premolar mesial, LP1: left premolar mesial, LP2L left premolar distal.

CONCLUSION AND SUGGESTIONS

Sundadont people who have higher frequency of derived traits is thought to have evolved on Sundaland during Upper Pleitocence. Based on the dental traits, the sample matched the description of Sundadont people—"exhibits more conservative pattern, typified by trait retention rather than elaboration" (Scott and Turner, 2000). However, some of the samples demonstrated typical Sinodont dentition, such as double shovel, although in weak expression.

For the Indonesian people, although they have Sundadont type of dentition, a great deal of variation may occur due to the mix-marriage with Chinese, European and Arabs who often came to the Indonesian area a few centuries ago. The variation would depend on the local culture, whether they follow more of endogamous or exogamous type of marriage.

The results may lead to the conclusion that native Indonesian, especially those who live in the coastal area, are more willing to have mix-marriage than it was thought. Therefore, it is suggested to do more dental traits research in this area so that comparation can be made with the people who live in mountainous area, or people in this area who are keener to abide endogamous type of marriage.

It would also be interesting to do research in the Chinese people who live in this area. They might have more Sundadont type of dentition compared to the Chinese in the Continent, due to mix-marriage with the native people. Chinese in Indonesia follow patriarchy type of family, so that the mix-marriage with the native people may not show in the name of the family of the male line. This result may give an implication to the

local, regional and national law of Indonesia which often segregate the Chinese in Indonesia from the native people.

There was an indication of differences between males and females in the degree of expression in shoveling, tuberculum dentale, and distal accessory ridge. It would be useful to do more studies in comparing the males and females children and the parents, to see how the dental traits are pass down to the offsprings. It would also be useful to study the possibility of sexual dimorphism in the dental traits of people in this area, although results in other areas did not support the consistent occurrence of sexual dimorphisme in most dental traits (e.g. Rothhammer et al., 1968; Aas and Risnes, 1979).

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Example:

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R. Kidd a,*, C. Oxnard b

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1).']. The author may mark in the manuscript where figures and tables are to be inserted.

Example:

Table 1. Distances between four hypothetical family clusters at the Pizzica cemetery based on 18 non-metric dental traits.

	Family			Clusters		
Cluster	No6 - No8	No6 - No 10	No6 - No11	No 8 - No 10	No 8 - No 11	No 10 - No 11
MMD	0.0464	0.2304	0.0376	0.3027	0.0863	0.1679
SD	0.0632	0.0509	0.0661	0.0188	0.0923	0.0886
Standardized MMD	1.5274	2.8272*	0.3605	2.3035*	3.9349*	1.8927

MMD - mean measure of divergence

SD - Standard deviation

difference statistically significant at 0.05 level (MMD greater than 2.0)

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Ukuran antropometris anak sekolah di Malang dibandingkan dengan NCHS (USA)	Ketua Peneliti	2005
Dental traits suku bangsa Jawa	Ketua Peneliti	2006
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Morfologi telinga Jawa dan Cina di Surabaya	Anggota Peneliti	2007
Studi Minimalisasi Dampak Pembangunan dan Pengembangan Kawasan Pesisir Lamongan	Anggota Peneliti	2007
Faktor Sosial-Ekonomi dalam Tumbuh Kembang Anak	Ketua Peneliti	2008
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SKRIPSI, THESIS, dan DISERTASI

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- Artaria, M. D. (2009) Antropologi Dental. Yogyakarta: Graha Ilmu

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2006	 GAYa Nusantara, Surabaya. "Jenis Kelamin Manusia: Ditinjau dari Perspektif Biologis" PGRI, Surabaya. "Manusia Indonesia dalam Pandangan Antropologi Budaya dan Sejarah Indonesia, Guna memperkuat Rasa Kebangsaan dan Nasionalisme"
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