

Volume 1994 Article 9

1994

# Rowland Clark and Dan Holdeman Site Human Skeletal Remains

Carol J. Loveland *Unknown* 

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#### **Repository Citation**

Loveland, Carol J. (1994) "Rowland Clark and Dan Holdeman Site Human Skeletal Remains," *Index of Texas Archaeology: Open Access Gray Literature from the Lone Star State*: Vol. 1994, Article 9. https://doi.org/10.21112/.ita.1994.1.9

ISSN: 2475-9333

Available at: https://scholarworks.sfasu.edu/ita/vol1994/iss1/9

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## Rowland Clark and Dan Holdeman Site Human Skeletal Remains

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## Appendix 2

# Rowland Clark and Dan Holdeman Site Human Skeletal Remains

Carol J. Loveland

#### INTRODUCTION

The Rowland Clark site was occupied by Caddoan Indian groups from approximately A.D. 1300-1600+. Twenty one of the 39 burials recovered during the Museum of the Red River excavations were assigned to the earliest McCurtain phase occupation (ca. A.D. 1300-1450); 14 burials were ascribed to a later McCurtain occupation between ca. A.D. 1450 and 1600; four burials belonged to the final McCurtain occupation (ca. A.D. 1600+) of the site. Since infants and children were buried under house floors rather than in the cemetery area associated with each time period, their interment does not necessarily follow the assigned time period. Due to poor preservation and small sample sizes all burials were evaluated as a single Caddoan population.

The burials from the Dan Holdeman site were found in a mound and three cemetery areas located on a terrace adjacent to the Red River. Skeletons of 26 individuals were recovered. The remains of an additional 15 individuals could not be retrieved due to their poor preservation. The acidity of the soil at the site contributed to considerable disintegration of the bones, leaving all burials in fragmentary condition.

Three time periods are represented in the burials from the Dan Holdeman site. Burials 22, 23, and 25 were associated with a Formative Caddoan occupation (that Perino designated the Spiro Focus) dating about A.D. 1000. Interments corresponding with the Middle Caddoan Sanders Focus, dated about A.D. 1200, include Burials 1-20 and 24. One subadult, Burial 21, dates to the latter portion of the McCurtain phase (ca. A.D. 1650). The skeletal material that could not be retrieved represented individuals living during the Formative and Middle Caddoan occupations.

Since much of the data on the osteoarcheology of the Clark and Holdeman sites has been presented in Loveland (1987), specifically stature estimates, skeletal anomalies, and caries rates, it is the purpose of this appendix to summarize other aspects of the skeletal biology of the prehistoric inhabitants of the two sites. However, the poor condition of the skeletons recovered from the sites precludes accurately assessing the biological condition and adaptive efficiency of the people who lived at the site. However, the analyses presented here, and in Loveland (1987), present data that provides a fairly complete picture of Caddoan adaptive efficiency on the Red River in Northeast Texas.

#### SKELETAL INVENTORIES

The skeletal remains from the Rowland Clark and Dan Holdeman sites represent Caddoan individuals who lived over a span of several hundred years. Ideally, those burials associated with each site occupation should be treated as a separate sample; however, due to the fragmentary nature of the remains and the small number of burials available for study, the interments from each site were analyzed as single groups. Tables 1 and 2 present a brief description of each burial from the two sites, including sex, age, skeletal elements present, and skeletal anomalies noted. Sex designations in these tables include those

individuals classified as probable males or females. Hereafter, those burials will be grouped with their respective sex.

#### Dentition

Dental pathologies occurred commonly in the Rowland Clark population; those observed included caries, broken teeth associated with caries, and abscesses. Table 3 shows the distribution of these dental problems by tooth type and sex. The dentition of several burials was excluded from this analysis since the teeth and alveolar bone were too fragmentary and broken to permit determination of tooth side and position.

The males exhibited slightly more dental problems than the females: two more caries, one more abscess, and 11 more teeth lost antemortem. This probably reflects their

greater longevity rather than any difference in the use or care of their teeth.

The dentition of six males and three females at Dan Holdeman was sufficiently complete to determine the condition of the teeth based upon type, position, and side. Table 4 presents the distribution of caries, abscesses, and broken teeth among the 229 teeth examined from these nine individuals. Caries were entirely limited to the posterior dentition; however, it is possible that caries may have occurred in some of the missing anterior teeth.

#### Cranial Measurements

Few of the Holdeman or Rowland Clark burials were complete enough to measure. The measurements that were taken are provided in Tables 5 and 6 for comparison with other Caddoan populations.

#### CONCLUSION

Despite the poor preservation of the Clark and Holdeman site burials, the bioarcheological analyses of the skeletons contributes to a better understanding of the prehistoric Caddo Indians and their adaptation to their environment (Loveland 1987). Many questions about the skeletal biology of the Rowland Clark and Holdeman populations remain unanswered because the small sample sizes and fragmentary nature of the remains prohibits a comprehensive analysis. However, analysis of the available skeletal data can contribute to our understanding of the Caddoan people.

Table 1. Description of the Burials from the Rowland Clark Site.

			Interments Dated A.D. 1300-1450		
Burial Number	Sex*	Age	Skeletal Elements Present	Pathology Duserved	Other
1	r	20-36	fragmentary long bones, foot and hand bones, pateliae, clavicle, calvarium, scapula, innominate, mandible		
2	7.3	30-30	Right ilium, fragmentary sacrum, long bones, calvarium	None	
:	H	20-30	Fragmentary bones of most of skeleton including mandable but calvarium missing	Ostecarthritis distal humeri	
4	25	20 - 36	Fragmentary mandable, calvarium,	None	
5	• -	Infant	Fragmentary calvarium	None	
6		Subadult (early to midteen)	3 molars (one deciduous)	None	
•	ž	30+	Fragmentary calvarium, mandible, long bones, vertebrae		Rodent gnawing on long bone fragments
8	7	20-30	Fragmentary calvarium, mandible, vertabrae, distal humerus t	Schmorl's Node, horacic vertebrae	
5	0.00	Subadult	2 permanent molar crowns	None	

A D. 1300-1450

Burtal	Sex*	Age	Skeletal Elements Present	Pathology Observed	Other
10	8	30+	Fragmentary calvarium, mandible, first and second cervical vertebra	None	
11		Subadult (early teen)	Fragmentary Calvarium and mandible	None	
2	?	30+	Fragmentary mandible, calvarium, long bones	None	Rodent gnawing on frontal
13	F?	30+	Fragmentary calvarium, mandible	None	
14	13	20 - 30	Mandible; fragmentary calvarium	Hone	
15	7	30+	Fragmentary calvarium, mandible, upper cervical vertebrae	Large abscess left HI mandible	Pacchionian bodies
16	-	Subadult	Very fragmentary calvarium, teeth	None	
12	ex:	Adult	fragmentary calvarium, cervical vertebrac	None	
۶	M2	30•	Mandible: fragmentary calvarium, cervical vertebrae, femora shafts; hand bones	Slight osteophytosis of cervical vertebrae	
19	?	20-30	Fragmentary calvarium, mandible, first and second cervical vertebrae	Healed depressed fracture on occipital	bone
25	м	30.	fragmentary calvarium, mendible, cervical vertebrae, femora shafts		

# Table 1, cont.

Interments Dated A.D. 1300-1450

Burial	5-100		A.O. 1300-1450  Skeletal Elements	Pathology	
	Sex*	Age	Present	Pathology Observed	Other
71	*	30-	Fragmentary mandible, calvarium, long bones, foot bones, vertebrae	Periosteal reaction tibiae; osteo- arthritis distal femora	Rodent grawing on long bones
			Interments Dated A.O. 1450-1600		
Burial Number	Sex	Age	Skeletal Elements Present	Pathology Observed	Other
22	£	20-36	Fragmentary calvarium, mandible, first and second cervical vertebrae	None	
23	404	Subadult	Loose deciduous and permanent teeth	None	
24	۶	20 - 30	Mandible; fragmentary calvarium	None	
25	H	30~	Mandible; fragmentary calvarium, cervical vertebrae	Moderate osteophytosis of cervical vertebrae	Cremated crantal fragments includes with burial
26	F	20-30	Mandible; fragmentary calvarium, long bones, ribs, vertebrae, clavicle, hand bones	Slight cribra orbitalia both orbits; periosteal reaction tibia and fibula	Pacchionian bodie rodent gnawing
27	?	30+?	Few fragments of calvarium and long bones	None	
28	F	20-36	Fragmentary calvarium, cervical vertebrae; mandible	Right mastoid consider smaller than left	rably
29	P	30+	Mandible; fragmentary calvactum, long bones, vertebrae	Periostitis right dist femur shaft; osteophys cervical vertebrae	
Ú			Right ilium, tibia; left femur, rib fregments	None	Rodent gnawing on femur
31	1	Adult	Fragmentary Tower limb and foot bones	None	
32	(5.7)	Infant	Fragmentary bones of skeleton	None	
33		Subadult (teenager)	Fragmentary lower limb and foot bones	None	
34	19191	Subadult (6-12)	fragmentary calvarium, mandible, cervical vertebrae		3 adult cervical vertebrae includ
35	77	30+	Fragmentary cranium, mandible, long bones, cervical vertebrae	None	
			Interments Dated A.O. 1600		
Burial Number	Sex	Age	Skeletal Elements Present	Pathulogy Observed	Other
36		Subadult	Loose deciduous and permanent teeth	None	
			Interments Dated A.D. 1600-	N 1000	
Burtal Number	Sex	Age	Skeletal [lements Present	Pathology Observed	Other
27	19.5	jū-	Fragmentary cransum, mandible, long bones	Abscess Ml right maxilla	Rodent grawing on long bones
38	45	29-30	Fragmentary remains of most of skeleton	tione	
15		,nfent	Fragmentary Calvarium, post- cranial bones	Nane	
*Sex d	esignal	tion denoted as	i follows: F - lemate F* - probable fem M - male M* - probable mal		THE STATE OF THE S

M1 - male
M1 - probable male
2 - sex undetermined
-- subadult, no sex
determination

Table 2. Description of the Burials from the Dan Holdeman Site.

Burial	Number	Sex*	Age	Skeletal Elements Present	Anomalies Observed	Comments
	1	ATT	20-30	Fragmentary calvarium, mandi- ble, scipula, clavide, humerus, femora	None	
	2A	At.	20-30	Femora: mandible; fragmentary remains of most of skeleton	Kyphasis L5-\$1	intrusive burial; rocent gnawing on fenora and humerus
9	2B	Al	30+	Fragmentary calvarium, mandi- ble, vertebrae, clavicie, tibia, femora, innominate, humeri	Healed depressed fracture left frontal; periosteal reaction shaft left tibia	
	3.	М	20-30	Femur; mandible; fragmentary calvarium, long bones, foot bones, clavicle, ribs, patellae, vertebrae, innominates	Two button osteomas frontal bone	
	4	M	20-30	Fragmentary bones of most of skeleton	None	
	5	M?	20-30	Fragmentary calvarium, mandible, cervical vertebrae, talus, femora shafts	Abscess right maxilla between $M_1$ and $M_2$	
	6	F	20-30	Mandible: fragmentary calvarium, long bones, innominates, scapulae		

Burial	ble		Age	Skeletal Elements Present	Anomalies Observed	Comments
			30+	Tibia; humarus; radius; mandi- ble; fragmentary long bones, foot bones, patella, calvarium	None	Rodent gnawing on long bones: remains of infant (not recovered reported near right humanus
	8	ta .	20-30	Fragmentary celvarium, mandible long bones, foot bones, scapula, ribs, sternam.	Periosteal reaction tible fragments; enamet hypoplasia maxillary incisors	
	9	SA	12-18	Fragmentary calvarium, ribs, vertebrae, secrum, foot bones, femora shafts	None	Rodent gnawing on femora shafts: #9 and 10 buried in common grave over ashpit; bones dis- located and scattered
	10	M	20-10	Left femur: fragmentary long bones, clavicle, hand bones, scapula	None	
	11	7	30+	Fragmentary calvarium, mandi- ble, vertebrae	None	
	12	2	20-30	Fragmentary calkarium, mandi- ble, long bones, ribs, clavi- cle, vertebrae, talus	Fiorous dysplasia on shaft of long bone	Rodent gnawing on long bones

Table 2, cont

Burial Number	Sex*	Age	Skeletal Elements Present	Anomalies Observed	Comments
13	М	20-30	Femora; tibla; patellae; radius; fragmentary remains of most of skeleton	Nane	Burial 13 had intruded upon Burial 12
14	SA	2-6	Fragmentary remains of most of skeleton	Cribra orbitalia right orbit (left orbit missing)	
15	SA	0-1	Fragmentary remains of most of skeleton	None	
16	F	20-30	Mandible: fragmentary calvar- ium, long bones	Periosteal reaction tibiae shafts	
17	F?	30+	Fragmentary calvarium, verte- brae, mandible, long bones, patella	Button osteoma left frontal	
18	M?	30+	Fragmentary calvarium, mandi- ble, long bones	Tempomandibular joint disease	Large pacenon ar bodies
19	ŞA	2-5	Fragmentary calvarium	None	
20	SA	12-18	Alandible; fragmentary remains of most of skaleton	Benign fibrous cortical defect on right distal temur shaft	Rodent grawing on long bone shafts and man-dible
21	SA	2-5	Mandible: fragmentary calvar- ium, long bones, vertebrae, innominate, ribs, clavicle	Cribra orbitalia bath orbits; mild porotic hyper- ostosis frontal	

Burial Number	urial Number Sex		ex Age Skeletal blements Anomalies Present Observed					
22	1	30+	Fragmentary catvarium, molars, premolars	None				
23	?	Adult	Fragmentary calvarium, mandi- ble	None				
24	5A	6-12	Fragmentary calvarium, mandi- tie	Enamel hypopiasia central maxillary incisor				
25	SA	6-12	Fragmentary calvarium	None				

<sup>\*</sup>Sex designation denoted as follows:

<sup>-</sup> Female
- Probable Female
- Male
- Probable Male
- Sex Undetermined
- Subadult, No Sex Determination

Table 3. Frequency of (	Common Dental Pa	athologies in the	Clark Population.

							Mali	es (5)								
			Rig	ht				Left								
	M3	M2	M1	P4	P3	C	LI	CI	CI	LI	С	P3	P4	M1	M2	M3
	2* 1B	2	3	4	4 1 B	4	3	3	3	4	4	1	2	3	2	3
Maxilla	1 AM 1?	2 AM 1?	1AM				1 AM 1 ?				1?	1?	1?	1 AM 1?	2?	2?
Number of			1 C	1 PM		1 PM		3PM	1 C 1 PM	1 PM		1 C 2 PM	1PM 1BC		1C	
Teeth Present	(3)	(2)	(4)	(4)	(5)	(4)	(3)	(3)	(4)	(4)	(4)	(2)	(3)	(3)	(3)	(3)
Mandible	2	3 1 A M	4 1 AM	5	5	5	4	3	3	3	4	4	3	3 1 A M	3 1 A M	2 2 A N
	3PM	10	.,,				1 PM	2PM	2 PM	2 PM	1.PM	10	2 C		1 C	1 PN
							I F IVI	2 1 141	2 1 141	2 F IVI	1.15.141			1 A		IPN
Number of Teeth																
Present	(2)	(4)	(4)	(5)	(5)	(5)	(4)	(3)	(3)	(3)	(4)	(5)	(5)	(4)	(4)	(2)
							Fema	les (6	)							
				ht							Le					
	M3	M2	M1	Р4	P3	С	LI	CI	CI	LI	С	P3	P4	M1	M2	M3
Maxilla	4	4	5	6	6	5	4	3	4	3 1 B	5	6	6	6	4	4
	1 C	1 C	1 C							16					1 C	
								1PM	1PM							
Number of	1?	1 7				1?	2?	1?	1 7	1,	1?				12	1.2

Table 3, cont.

Females (6)

			RI	ght							Le	ft				
	M3	M2	M1	P4	P3	С	LI	CI	CI	LI	С	P3	P4	MI	M2	МЗ
Mandible	5	5	5	5	6	5	6	3	4 1 B	5 1 B	5	6	6	4 1 B	6	4
		1 PM	10	10		1 PM		2 PM	1 PM		1 C			1 C		
	1?							1?			10			10		1? 1AM
Number of Teeth Present	(5)	(5)	(6)	(6)	(6)	(5)	(6)	(3)	(5)	(6)	(6)	(6)	(6)	(5)	(6)	(4)
						Adul	t, Sex	Unde	termin	ed			, s. s.			
	мз	M2	Ri M1	ght P4	Р3	С	LI	CI	CI	LI	C	P3	P4	М1	M2	МЗ
Maxilla	2	2	2	1	1	1	2	2	2	1	2	2	2	2	1	1
				1?	1?	1?				1?					1?	
Number of Teeth Present	(2)	(2)	(2)	(1)	(1)	(1)	(2)	(2)	(2)	(1)	(2)	(2)	(2)	(2)	(1)	1PM (1)
Mandible	2	2	2	2	2	2	2	1	1	1 1 ?	2	2	2	1	2	2
								1 PM	(Fe Street	· · · · · ·				1CA		
Number of Teeth Present	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(1)	-(1)	(1)	(2)	(2)	[2]	(2)	(2)	(2)

<sup>\* -</sup> number of health teeth

A - Abscess

PM - Postmortem loss

BC - Caries, broken

C - Caries

AM - Antemortem loss ? - Bone and tooth missing

CA - Caries, abscess

Table 4. Frequency of Dental Lesions in the Holdeman Population.

						-ผลเล										
	МЗ	MZ	MI	PI	P3	liğli C	LI	CI	CI	LT	C Leli	PJ	פין	MI	A12	м3
Maxitta	n* AMI PMI	ф ЛМ1 С1	2 AM, A PM1 C2	4 1 C1 21	5	5 PM1	3 PM3	6	5	q FM2	6	S PMI	5 C1	5 C1	ћ АМ1	2 Alst PAI C1 ?1
Number of Teeth Present	(4)	(5)	(4)	(5)	(5)	(5)	(3)	(G)	(5)	(4)	(6)	(5)	(6)	(6)	(4)	(3)
Mandible	5 //////	5	5	4 PMZ	6	5 PM1	<b>4</b> PM4	2 PM4	1 PMS	2 P1/4	6	6	5 AMI	5	5	5
		C1	C1			3.344.		•		• 55000				CI	Ct	C1
Number of Teeth Present	(5)	(6)	(6)	(4)	(6)	(5)	(4)	[2]	(1)	(2)	(6)	(6)	[5]	(6)	(6)	(6)
<del></del>					Fe	males				•						
	МЗ	Mz	МІ	P4	P3	ight C	LI	CI	CI	LI	С	Lell P3	P4	мі	A12	A13
Maxilla	2	2 AM1	3	3	3	3	3	2	2	3	3	2	2	2	2	2
	11	AMI						РМ1	РМІ			PMI	C1	C1	Cı	PAH
ber of Teeth Present	(2)	(2)	(3)	(3)	(3)	[3]	(3)	(2)	(2)	(3)	(1)	{2}	(3)	(3)	(1)	(2)
Mandible	I AMI	3	3	1 AMI	3	3	1		1	3	J	3	3	3	1	1
				PMI			PM2	PM3	PM2	PMI						C1
	71														<u>-</u>	71
Number of Teeth Present	(1)	(3)	(3)	(1)	(3)	(3)	(1)	[0]	{1]	(2)	(3)	(3)	[3]	(3)	B1 (3)	(2)

Number of Healthy Teeth
 AM - Antemortem Loss

<sup>-</sup> Abscess

PM - Postmortem Loss

<sup>-</sup> Carles

<sup>-</sup> Bone and Tooth Missing

B - Broken

Table 5. Cranial Measurements (mm) of the Clark Interments.

	Male	е	Fer	nale
	Number		Number	
Measurement	of Cases	Mean	of Cases	Mean
Maximum Length	4	168.3		
Maximum Breadth	4	145.3	Page State	
Symphysis Height	5	35.8	4	36.0
Diameter Bigonial	5	104.4	4	97.5
Diameter Bicondylar	3	124.7	3	123.0
Height Ascending Ramus	5	64.8	4	58.3
Corpal Length Gonion-Gnathion	5	89.0	4	89.0

Table 6. Cranial Measurements (mm) of the Holdeman Interments.

Measurement	Male Number of Cases	Mean	Female Number of Cases	Mean
Maximum Length			2	157.0
Maximum Breadth			2	142.0
Minimum Frontal Breadth			2	93.0
Symphysis Height	1	35.0	2	34.0
Diameter Bigonial	2	105.0	1	96.0
Diameter Bicondylar	2	131.0	1	119.0
Height Ascending Ramus	2	58.0	2	57.0

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Human Skeletal Remains from the Clark and Holdeman Sites, Red River County, Texas. *Bulletin of the Texas Archeological Society* 57:165-181.

## **ACKNOWLEDGMENTS**

I wish to thank Gregory Perino for making it possible for me to study these skeletal collections. Dr. John B. Gregg, School of Medicine, the University of South Dakota, Sioux Falls, South Dakota, kindly consented to evaluate two of the skeletal lesions from the Holdeman site. I extend my appreciation to him.