

ANTHROPOLOGICAL STRUCTURE OF 101 ESKIMO
from
BAFFIN ISLAND AND THE PROVINCE OF QUEBEC*

by
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Our material comprises 101 sick Eskimo examined by us in 1953. All were suffering from pulmonary tuberculosis and were hospitalized in Quebec City.

Regarding their origin, 74 individuals come from Baffin Island (Cape Dorset, Frobisher Bay, Lake Harbour); there are 36 males and 38 females, of whom 32 individuals from 17 to 60 years, and the rest is made of babies and children of different ages.

The second part used to live in various regions of Quebec as Fort Chimo, Payne Bay, Koartak, Port Burwell, Tessikudluk. There are 24 individuals, 14 males and 10 females; 16 individuals are aged from 18 to 60 years, and the rest comprises babies and children of different ages.

Moreover, we have studied 2 adults, Eskimo-females from Labrador (Natak, Goose Bay) and 1 female from Southamton Island (Coral Harbour).

Concerning adults of both groups our results are as follows:

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MEASUREMENTS

	M*		F
<u>Stature</u>			
n:12	Baffin m:161,90	n:11	m:153,72
n:7	Quebec m:163,15	n:7	m:154,17
<u>Sitting Height</u>			
n:12	Baffin m:85,84	n:11	m:81,81
n:7	Quebec m:88,45	n:7	m:83,25
<u>Sitting-Height Stature Index</u>			
n:12	Baffin m:53,08	n:11	m:53,30
n:7	Quebec m:54,07	n:7	m:53,82
<u>Maximum Head Length</u>			
n:13	Baffin m:195,84	n:14	m:186,06
n:9	Quebec m:198,22	n:7	m:188,42

* We use following abbreviations: M:Males, F:Females, n:Number of the individuals, m:Mean.

M

F

Maximum Head Breadth

n:13	Baffin	m:149,53	n:14	m:144,0
n:8	Quebec	m:149,88	n:7	m:144,71

Cephalic Index

n:13	Baffin	m:76,49	n:14	m:77,0
n:9	Quebec	m:76,71	n:7	m:76,85

Head Height

n:12	Baffin	m:133,16	n:11	m:130,0
n:7	Quebec	m:136,72	n:7	m:126,92

Height-Length Index

n:12	Baffin	m:69,01	n:11	m:69,85
n:7	Quebec	m:68,97	n:7	m:67,20

Height-Breadth Index

n:12	Baffin	m:89,05	n:11	m:90,02
n:7	Quebec	m:91,21	n:7	m:87,49

Morphological Facial Height

n:13	Baffin	m:124,30	n:13	m:115,30
n:9	Quebec	m:131,77	n:7	m:119,80

M

F

Bizygomatic Breadth

n:13	Baffin	m:140,30	n:13	m:137,15
n:9	Quebec	m:141,0	n:7	m:136,28

Morphological Facial Index

n:13	Baffin	m:88,44	n:13	m:84,76
n:9	Quebec	m:93,03	n:7	m:87,54

Bigonial Diameter

n:13	Baffin	m:112,76	n:13	m:105,69
n:8	Quebec	m:113,0	n:7	m:109,10

Gonio-zygomatic Index

n:13	Baffin	m:80,32	n:14	m:80,73
n:8	Quebec	m:80,85	n:7	m:80,10

Minimum Frontal Breadth

n:13	Baffin	m:104,76	n:14	m:104,0
n:9	Quebec	m:104,44	n:7	m:103,71

Fronto-parietal Index

n:13	Baffin	m:72,50	n:13	m:72,91
n:9	Quebec	m:71,02	n:5	m:70,82

M

F

Jugo-frontal Index

n:13	Baffin	m:74,56	n:13	m:75,12
n:9	Quebec	m:74,04	n:7	m:76,13

Nasal Height

n:13	Baffin	m:54,61	n:13	m:48,03
n:9	Quebec	m:56,33	n:7	m:49,07

Nasal Breadth

n:12	Baffin	m:36,41	n:14	m:31,50
n:8	Quebec	m:38,87	n:7	m:32,00

Nasal Index

n:12	Baffin	m:66,41	n:13	m:65,62
n:8	Quebec	m:67,23	n:7	m:65,64

Physiognomic Ear Length

n:13	Baffin	m:69,38	n:14	m:65,35
n:9	Quebec	m:70,77	n:7	m:66,00

Physiognomic Ear Breadth

n:13	Baffin	m:37,91	n:14	m:34,75
n:9	Quebec	m:37,11	n:7	m:35,64

	M		F
<u>Ear Index</u>			
n:13	Baffin m:54,07	n:13	m:53,13
n:9	Quebec m:52,47	n:7	m:53,98

DESCRIPTIVE CHARACTERS

	M	F
	%	%
<u>Constitutional Type</u>		
Baffin		
Picnic type	53,8	61,1
Asthenic "	38,4	38,8
Athletic "	7,6	----
Quebec		
Picnic type	66,6	85,7
Asthenic "	33,3	14,2
Athletic "	----	----

Remark: We did not discover a correlation of tuberculosis with any constitutional type; pulmonary tuberculosis is associated with all the constitutional types represented in our material.

Skin Colour

Baffin

Predominating:

No 12 of the Luschan's scale - (30,7%)

Quebec

No 10 and 11 of the L. sc. (22,2%, - 22,2%)

Predominating:

No 12 of the Luschan's scale (36,8%)

No 10 and 11 of the L. sc. (28,5%, - 28,5%)

	M	F
	%	%
<u>Eye colour</u>		
Baffin		
Dark eye	61,5	84,2
Less dark eye	30,7	5,5
Dark-brown	----	5,5
Light-brown	7,7	5,5
Quebec		
Dark eye	77,7	57,1
Less dark eye	----	----
Dark-brown	----	28,5
Light-brown	22,2	14,2
<u>Mongol Fold</u>		
Baffin		
	46,1%	38,3%
Quebec		
	44,4%	42,8%
<u>Hair colour</u>		
Baffin		
Dark colour	100%	100%
Quebec		
Dark colour	88,8%	100%
Lighter	11,1%	----
<u>Form of the hair</u>		
Baffin		
Straight	100%	100%
Quebec		
Straight	100%	100%

M

F

%

%

Thickness of the hair

Baffin

Thick hair	30,7	----
Medium "	69,2	26,5
Thin "	----	73,3

Quebec

Thick hair	33,3	----
Medium "	66,6	85,7
Thin "	----	14,2

Face shape

Baffin

Square form	46,1	----
Rectangular	7,7	5,2
Pentagonal	30,7	36,7
Oval	15,3	47,3
Circle	----	10,5

Quebec

Square form	44,4	----
Rectangular	----	----
Pentagonal	11,1	42,8
Oval	44,4	42,8
Circle	----	14,2

Molars

Baffin

Pronounced prominence	46,1	84,2
Medium	23,0	10,5
Slight	30,7	5,5
None	----	----

Quebec

Pronounced prominence	50,0	100
Medium	37,5	----
Slight	12,5	----
None	----	----

	M	F
	%	%
<u>Mouth</u>		
Baffin		
Wide mouth	46,1	21,0
Medium	30,7	52,6
Little	23,0	26,3
Quebec		
Wide mouth	44,4	14,2
Medium	55,5	71,4
Little	-----	14,2
<u>Lips</u>		
Baffin		
Thick lips	30,7	15,6
Medium "	69,1	84,6
Thin "	-----	-----
Quebec		
Thick lips	44,4	28,5
Medium "	55,5	71,4
<u>"Receding" chin</u>		
Baffin		
	30,7	16,6
Quebec		
	None	None
<u>Forehead</u>		
Baffin		
High fronts	7,7	10,5
Medium "	61,5	63,1
Low "	30,7	26,3
Quebec		
High fronts	44,4	-----
Medium "	33,3	28,5
Low "	22,2	71,4

	M	F
	%	%
<u>Shape of the front</u>		
Baffin		
Convex fronts	46,1	73,6
Flat " "	7,6	15,7
Slight concave	46,1	10,7
Quebec		
Convex fronts	11,1	100,0
Flat " "	-----	-----
Slight concave	88,8	-----
<u>"Receding" Forehead</u>		
Baffin		
	23,0	15,7
Quebec		
	None	None
<u>Supraorbital Ridges</u>		
Baffin		
Pronounced	33,3	-----
Medium	16,6	-----
Slight	50,0	100,0
Quebec		
Pronounced	14,4	None
Medium	14,2	"
Slight	71,4	"
<u>Frontal Tubera</u>		
Baffin		
	15,3	31,5
Quebec		
	11,1	33,3
<u>Nose</u>		
Baffin		
Straight nose	23,0	50,0

	M	F
	%	%
Baffin		
Concave nose	7,7	50,0
Convex "	----	----
Wavy "	69,1	----

Quebec		
Straight nose	33,3	----
Concave "	44,4	100
Convex "	----	----
Wavy "	22,2	----

Ears

Baffin		
A strong rolling of the Helix	62,5	62,5
A moderate rolling of the Helix	37,4	25,0
A slight rolling of the Helix	----	12,4

Quebec		
A strong rolling of the Helix	44,4	14,2
A moderate rolling of the Helix	22,2	28,5
A slight rolling of the Helix	33,3	57,0

Lobule

Baffin		
Long lobule	46,1	50,0
Medium	23,0	25,0
Short	7,7	12,5
Attached	23,0	12,5

Quebec		
Long lobule	44,4	14,2
Medium	22,2	42,8
Short	22,2	42,8
Attached	11,1	----

Tuberculum Darwini

Baffin		
(bi-lateral)	7,7	(bi-lateral) 7,1
Quebec		
	None	None

REMARKS

In comparing the Eskimo of Baffin Island with those of Quebec, we arrived at the conclusion that these two groups are different from one another to a certain extent. We found more primitive characteristics in the Baffin group; archaic elements such as the so-called "receding chin and front" are more widely distributed among the Baffin Island Eskimo. These elements were also observed in various Eskimo groups, notably by Richardson (1) and by Hooper (2) among the Innuits of the North west coast.

REFERENCES

- (1) Richardson, Sir John, The Polar Regions, Edinburgh, A. & C. Black, 1861, p. 301.
- (2) Hooper, C.L., Report of the cruise of the U.S. Revenue-Steamer "Corwin" in the Arctic Ocean, Washington, 1881, p. 101.

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