

MAXILLOFACIAL SURVEY

The following is a compilation of the maxillofacial cases which passed through the 12th General Hospital from 1943 to 1945, in Africa, in Rome and in Leghorn, Italy.

Such cases where the diagnosis was abrasion or contusion, or wound, penetrating, mild, where no treatment was indicated were arbitrarily excluded. This left a series of 436 maxillofacial surgical cases.

Africa .....	154
Rome .....	145
Leghorn .....	<u>137</u>
	436

INJURIES

Bony injury without soft tissue damage .....	86
Soft tissue injury without bone damage .....	152
Bone and soft tissue injury combined .....	175
Disease .....	23

	<u>Bone Injury</u>					<u>Totals</u>
	<u>Mandible</u>	<u>Maxilla</u>	<u>Zygoma</u>	<u>Nose</u>	<u>Orbit</u>	
Africa	67	29	24	32	18	170
Rome	38	18	15	12	8	91
Leghorn	<u>31</u>	<u>18</u>	<u>16</u>	<u>13</u>	<u>13</u>	<u>91</u>
Totals	136	65	55	57	39	352

	<u>Soft Tissue Injury</u>						<u>Totals</u>
	<u>Face</u>	<u>Tongue</u>	<u>S. Palate</u>	<u>Eyelids</u>	<u>Nose</u>	<u>Lips</u>	
Africa	72	3	1	12	23	11	122
Rome	90	6	0	14	16	15	141
Leghorn	<u>85</u>	<u>2</u>	<u>1</u>	<u>19</u>	<u>15</u>	<u>19</u>	<u>141</u>
Totals	247	11	2	45	54	45	404

Diseases

Papilloma of tongue .....	1
Cyst of tongue .....	1
Cyst, mucous, mouth .....	1
Papilloma of mucous membrane .....	1
Cyst of maxilla .....	2
Cyst of lip .....	2
Abscess, submaxillary gland .....	1
Cyst epidermoid, cheek, .....	1
Angioma of cheek .....	1
Lymphangioma of cheek .....	1
Nevi of face .....	1
Cyst of nose .....	1
Epithelioma of nose and eyelid .....	1
Epithelioma of lip .....	2
Osteomyelitis of mandible .....	3
Radicular cyst of mandible .....	1
Cyst, branchiogenetic .....	1
Tumor, face .....	1

In the breakdowns that follow, it should be noted that the worksheets from which these figures were obtained were in many cases incomplete or inaccurate.

For example, it seems most unlikely that with 55 zygomatic fractures and 63 maxillary fractures there would be only 39 orbital fractures and only 33

cases in which sinuses were involved. Yet, that is what the records indicate.

In the same way, the figures on treatment are quite incomplete. In 95 cases (21.7%) either no treatment at all was indicated or the treatment recorded was entirely inadequate for the injuries described.

Fractures: There were 345 fractures.

Fracture of one bone only .....(cases)	204	(79.0%)
Fracture of two or more bones ..(cases)	54	(21.0%)
<u>Mandibular Fractures</u> .....	132	<u>38.2% of all</u>
Alone	108	81.8%
With other bones	24	18.2%
<u>Maxillary Fractures</u> .....	63	<u>18.3% of all</u>
Alone	25	39.6%
With other bones	38	60.4%
<u>Zygomatic Fractures</u> .....	55	<u>15.9% of all</u>
Alone	24	43.6%
With other bones	31	56.4%
<u>Nasal Fractures</u> .....	56	<u>16.2% of all</u>
Alone	36	64.3%
With other bones	20	35.7%
<u>Orbital Fractures</u> .....	39	<u>11.3% of all</u>
Alone	11	28.2%
With other bones	28	71.8%
Fractures involving sinuses .....	33	(9.5%)

Nerve Injuries: 21 cases.

Olfactory .....	1	Inferior Mental .....	1
Facial .....	10	Hypoglossal, facial ..	1
Maxillary .....	1	Not indicated c.....	7

How Incurred

Accidental .....	177	(40.6%)
Wounded in action .....	232	(53.2%)
Disease .....	23	(5.2%)
Manner not stated .....	4	(1.0%)

In 197 cases (48.3%) there were associated injuries.

Treatment

Treatment prior to admittance to 12th General Hospital:

Debridement .....	218
Primary suture .....	139
External fixation .....	82
Open reduction .....	7
Bandage, Barton .....	1
Tracheotomy .....	10

Treatment at 12th General Hospital:

Debridement .....	28
Primary suture .....	21
Secondary suture .....	13
External fixations .....	43 ( 9 reapplications of prior fixation)
Bandage, Barton (?) .....	2
Open reduction .....	23

Caldwell Luc (alone) .....	4
Caldwell Luc with wiring of zygoma .....	5
Simple (?) elevation of zygoma .....	3
Nasal plastic .....	2
Type not indicated .....	9

Dispositions

"A" duty .....	205	(47.0%)
"B" duty: M.F causes ... 24.. (10 Temp)...	35	( 8.0%)
Other causes .. 11.....		
"C" duty: M.F causes ... 65 .....	155	(35.5%)
Other causes .. 90		
Evacuation without classification .....	41	( 9.5%)

Hospital Days

From date of injury to date of disposition from 12th General Hospital varied from 1 to 183 with an average of 38.4 days per patient.

Africa  
(154 cases)

Bone injury without soft tissue damage .....	44
Soft tissue injury without bone damage .....	21
Bone and soft tissue injury combined .....	77
Disease:	
Abscess, submaxillary gland .....	1
Epidermoid cyst of cheek .....	1
Angioma of cheek .....	1
Lymphangioma of cheek .....	1
Nevi of face .....	1
Cyst of nose .....	1
Epithelioma of nose and eyelid ...	1
Epithelioma of lip .....	1
Osteiomyelitis of mandible .....	3 (all after extractions)
Radicular cyst of mandible .....	1
	..... 12
	<u>154</u>

Fractures

One bone only .....	92 cases
Two or more bones .....	28 cases

	<u>Mandible</u>	<u>Maxilla</u>	<u>Zygoma</u>	<u>Nose</u>	<u>Orbit</u>
Alone .....	51	9	9	19	4
With other bones .....	<u>12</u>	<u>20</u>	<u>15</u>	<u>12</u>	<u>14</u>
	63	29	24	31	18

How Incurred

Accidental .....	85
Wounded in action .....	57
Disease .....	12

Maxillofacial injuries alone .....	92
Maxillofacial injuries associated with others ....	62

Treatment prior to admittance to 12th General Hospital:

Debridement .....	45
Primary suture .....	30
External fixation .....	43
Open reduction .....	4
Tracheotomy .....	2

Treatment at 12th General Hospital:

Debridement .....	10	
Primary suture .....	7	
Secondary suture .....	2	
External fixation .....	26	( 8 reapplications)
Bandage .....	2	
Open reduction .....	15	
Caldwell Luc, Gillies .....	2	
Caldwell Luc .....	3	
Elevation of zygoma .....	2	
Nose plastic .....	1	
Type not indicated .....	6	
(All except nasal case involved zygoma although one indicated orbit alone)		

In 35 cases (22.7%) either no treatment was recorded or the treatment indicated was inadequate for the injuries described.

Disposition:

"A" duty .....	66	(42.8%)
"B" duty .....	22	25 (16.2%)
(10 temp)      None M - F .....	3	
"C" duty .....	25	63 (41.0%)
Maxillofacial ..	38	
Other causes ...	38	

Hospital days varied from 1 to 183. Average stay in hospital from time of injury to disposition date, 12th General Hospital - 43.3

Rome  
(145 cases)

Bone injury without soft tissue damage .....	19
Soft tissue injury without bone damage .....	65
Bone and soft tissue injury combined .....	53

Disease:

Papilloma of tongue .....	1
Cyst of tongue .....	1
Cyst of maxilla .....	2
Cyst, mucous, of mouth .....	1
Papilloma of mucous membrane ...	1
Cyst of lip .....	2
.....	8
	<u>145</u>

Fractures

One bone only .....	58 cases
Two or more bones .....	12 cases

	<u>Mandible</u>	<u>Maxilla</u>	<u>Zygoma</u>	<u>Nose</u>	<u>Orbit</u>
Alone .....	30	7	8	10	3
With other bones .....	8	9	7	2	5
	<u>38</u>	<u>16</u>	<u>15</u>	<u>12</u>	<u>8</u>

How Incurred

Accidental .....	49
Wounded in action .....	87
Disease .....	8
Not indicated .....	1

Maxillofacial injuries alone .....	88
Maxillofacial injuries associated with others .....	57



Maxillofacial injuries solely .....	59
Maxillofacial injuries associated with other injury	78

Treatment:

It should be stated that in 21 cases (15.3%) either no treatment was recorded or treatment indicated was far from adequate for injuries described.

Treatment prior to admittance to 12th General Hospital:

Debridement .....	100
Primary suture .....	74
External fixation .....	18
Open reduction .....	1
Bandage (Barton) .....	1
Tracheotomy .....	5

Treatment at 12th General Hospital:

Debridement .....	5	
Primary suture .....	5	
Secondary suture .....	3	
External fixation .....	12	(One reapplication of original fixation)
Open reduction .....	7	
Caldwell Luc, Gillies .....	3	
Caldwell Luc, .....	1	
Not indicated / .....	3	

Disposition:

"A" duty .....	59	(43.0%)
"B" duty (none due to M-F injury) .....	4	(2.9%)
"C" duty .....	48	(35.0%)
Maxillofacial 16 .....		
Associated inj. 32 .....		
Evacuated without classification .....	26	(19.1%)

Hospital days, from date on injury to date on disposition sheet, 12th General Hospital, varied from 2 - 134 (134 days to "A" duty). The average stay indicated was 30.8 days.