## Complications of 1028 sutureless inferior third molars surgeries. Dental and medical services of the Caribbean.

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**Objective:** The purpose of the present study was to identify the postoperative complications of patients who underwent surgery of lower third molars with a sutureless of the flap at the end of the procedure.

**Study Design:** The study implemented a retrospective descriptive observational design and included all subjects who underwent surgery of impacted lower third molars from January 2015 to March 2020. In SOMECA, the extraction of included third molars without suturing at the end of the procedure is the protocol of care in all patients. A total of 2,218 patients met the inclusion criteria. A universe of 900 patients was selected. In the 900 patients, 1028 third molars were extracted. It worked with the whole universe. The post-operative complications in the first 30 days of surgery were evaluated.

**Results:** The study sample included 1028 sutureless inferior third molars surgeries. The overall complication rate for extractions conducted under local anesthesia was 8% for the inferior third molars (82 of 1028 third molars extracted), 2.43% of complications being due to infection. Bleeding occurred in 0.58% and they were all females. The most represented age group was 10 to 19 years old and the females were the most affected. There were no complications in the surgical procedures performed in age group 50 to 79.

	Table 1. Distrib	oution of the study	population by	age and compl	lication rate
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Age (Years)						
	Surgeries with complications		Surgeries without complications		Total	
	n	%	n	%	n	%
10-19	13	1.3%	154	15.0%	167	16.2%
20-29	55	5.4%	516	50.2%	571	55.5%
30-39	13	1.3%	239	23.2%	252	24.5%
40-49	1	0.1%	29	2.8%	30	2.9%
50-59	0	0%	7	0.7%	7	0.7%
70-79	0	0%	1	0.1%	1	0.1%
Total	82	8.0%	946	92.0%	1028	100.0%

Table 3	Distribution	of the stud	v population	by age and	bleeding	complications

Table 3. Distribution of the study population by age and bleeding complications									
Age (Years)									
	Hemo	rrhage	Hem	atoma	Total				
	No	%	No	%	No	%			
10-19	1	0.10%	5	0.49%	6	0.6%			
20-29	5	0.49%	7	0.68%	12	1.2%			
30-39	1	0.10%	2	0.19%	3	0.3%			
40-49	0	0%	0	0%	0	0%			
50-59	0	0%	0	0%	0	0%			
70-79	0	0%	0	0%	0	0%			
Total	7	0.68%	14	1.36%	0	2.0%			

Table 2. Distribution of the study population by age and complications
Age (Years)

Age (Tears)	/							
_	Dry	Socket	Cel	lulitis	Т	otal o		
	n	%	n	%	n	%		
10-19	0	0%	0	0%	0	0%		
20-29	13	1.26%	8	0.78%	21	2.04%		
30-39	1	0.10%	2	0.19%	3	0.29%		
40-49	1	0.10%	0	0%	1	0.10%		
50-59	0	0%	0	0%	0	0%		
70-79	0	0%	0	0%	0	0%		
Total	15	1.46%	10	0.97%	25	2.43%		

Table 4. Distribution of the study population by age and neurological complications

Table 4. Distribution of the study population by age and neurological complications								
Age (Years								
_	_	al Nerve irment	IAN Im	pairment	To	tal		
	n	%	n	%	n	%		
10-19	2	0.2%	0	0%	2	0.2%		
20-29	6	0.6%	11	1.1%	17	1.7%		
30-39	6	0.6%	2	0.2%	8	0.8%		
40-49	0	0%	0	0%	0	0.0%		
50-59	0	0%	0	0%	0	0.0%		
70-79	0	0%	0	0%	0	0.0%		
Total	14	1.4%	13	1.3%	27	2.6%		
IAN: Inferior alv	eolar nerve	:						

**Conclusions:** The complications that occur in operated inferior third molars with the sutureless technique are low. The sutureless technique for extraction of the lower third molars is unrelated to infection or bleeding after surgery.