## **APPENDIX C: STAINING PROTOCOL**

### a) PROTOCOL OF HEMATOXYLIN AND EOSIN (H&E) STAIN:

Before the staining, the slides were undergoing deparaffination and dehydration until distilled water.

### STAINING PROTOCOL:

- 1. Haris' alum Hematoxylin
- 2. Running tap water
- 3. 0.2% HCl
- 4. Running tap water
- 5. 0.2 % NaHCO<sub>3</sub>
- 6. Running tap water
- 7. Eosin Solution

### **DEHYDRATION:**

- - 1. 95% AlcoholI
  - 2. 95% Alcohol II
  - 3. Absolute Alcohol I
  - 4. Absolute Alcohol II
  - 5. Xylene
  - 6. Xylene II

- -20-25 seconds -Remove the excess stains
- -3 seconds
- -3 seconds
- -3 seconds
- -Until the sections turn blue
- -1 minutes
- -Rinsed -Rinsed
- -3 minutes
- -3 minutes
- -3 minutes
- -3 minutes /More

The slides were then mounted with Canada balsam.

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# b) <u>PROTOCOL OF ACCUSTAIN TRICHROME STAIN (MASSON) HT-15</u> [SIGMA]:

The slides where undergo deparaffination and rehydration before staining until distilled water.

## STAINING PROTOCOL:

1. Modant in Bouin's Soultion.	-56 C for 15 minutes
	/Room Temperature for overnight.
2. Running tap water	-Until yellow color removed
3. Distilled water	-Rinsed briefly.
4. Working Weigert's Hematoxylin	-5 minutes
5. Running tap water	-5 minutes
6. Distilled water	-Rinsed
7. Biebrich Scarlet-Acid Fuchsin	-5 minutes
8. Distilled water	-Rinsed
9. Phosphomolybdic/Phosphotungstic Acid	-5-10minutes
10. Aniline Blue	-5 minutes
11. Distilled water	-Rinsed
12.1% acetic acid	-3-5 minutes

### **DEHYDRATION:**

1.	95% Alcohol I	-3 minutes
2.	95% Alcohol II	-3 minutes
3.	Xylene I	-3 minutes
4.	Xylene II	-3 minutes
5.	Xylene III	-3 minutes

### COVER SLIPPING:

With DPX (xylene based) mount and dry overnight at room temperature.

### c) <u>PROTOCOL OF ACCUSTAIN ELASTIC STAINS [SIGMA]:</u>

The slides where undergo deparaffination and rehydration before staining until distilled water.

### STAINING PROTOCOL:

1.	Working Elastic Stain	-10 minutes	
2.	Distilled water	-Rinsed	
3.	Working Ferric Chrolide Solution	-1-2minutes	
4.	Running Tap Water	-Rinse	
5.	(If over differentiated, return to step 1)		
6.	95% Alcohol	-Rinsed	
7.	Distilled water	-Rinsed	
8.	Van Gieson Solution	-1-3minutes	
DEHYDRATION:			
0	05% Alcoholl	Dinsed	

# 9. 95% AlcoholI-Rinsed10. 95% Alcohol II-Rinsed11. Absolute Alcohol I-3 minutes12. Absolute Alcohol II-3 minutes13. Xylene I-3 minutes14. Xylene II-3 minutes15. Xylene III-3 minutes/more

**COVER SLIPPING:** 

With DPX (xylene based) mount and dry overnight at room temperature.