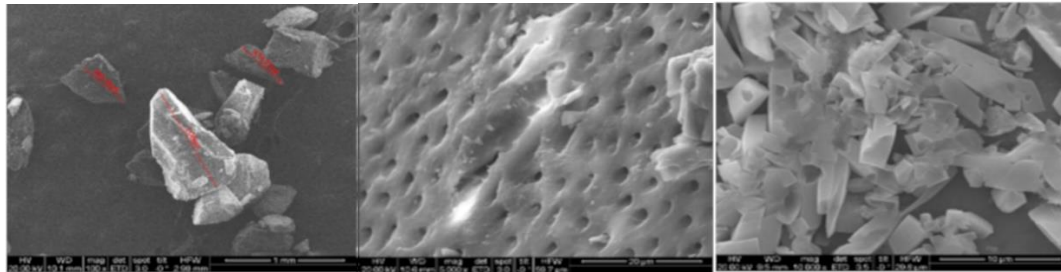


SEM of Group 1a: Teeth extracted from young males for orthodontic purpose, powdered and demineralized

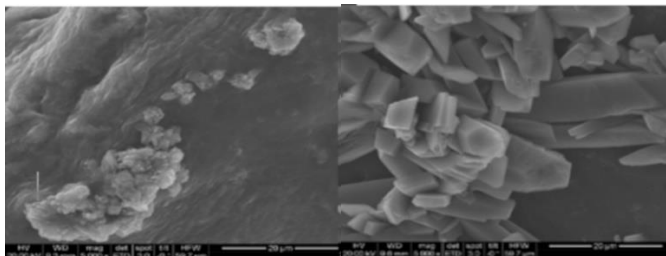
Figure 1. SEM Group 1a



A

B

C



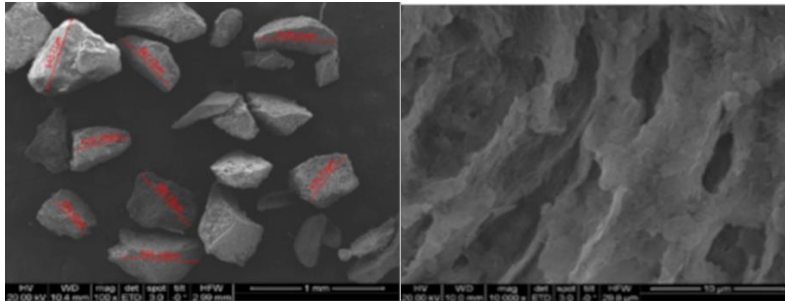
D

E

- A. Particle size, B. Dentinal tubules and collagen ,C. Crystals covering the dentinal tubules, D. Cluster of crystals between the dentinal tubules, E. Hydroxyapatite crystals at higher magnification

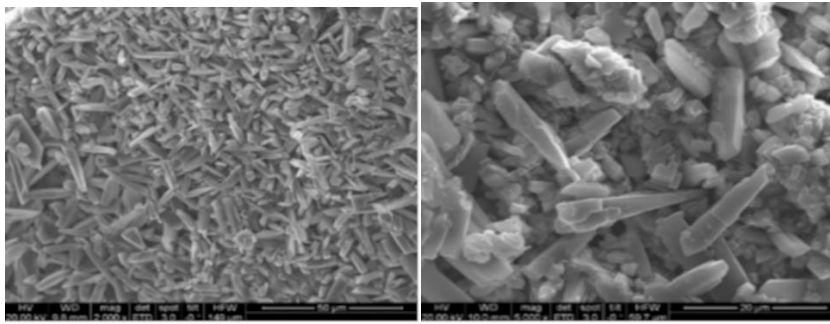
SEM of Group 1b: Teeth extracted from young females for orthodontic purpose, powdered and demineralized

Figure 1.1. SEM of Group 1b



A

B



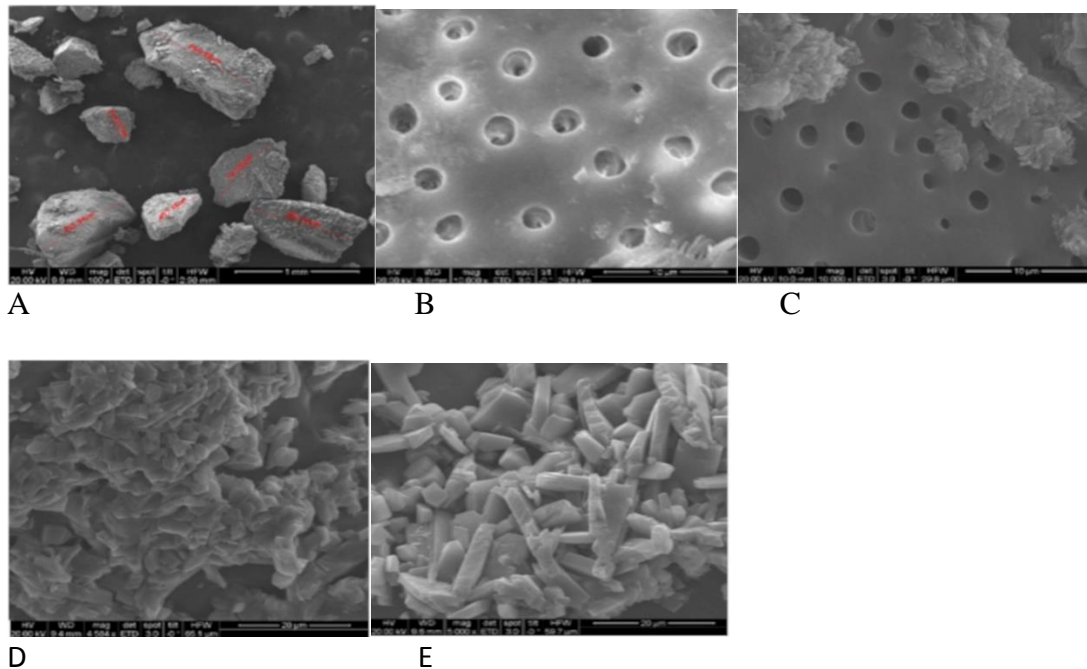
C

D

A. Particle size, B. Dentinal tubules, C. Crystals covering the dentinal tubules, D. Cluster of hydroxyapatite crystals between the dentinal tubules at higher magnification

SEM of Group 2a: Teeth extracted from old adult males due to periodontal issues,
powdered and demineralized

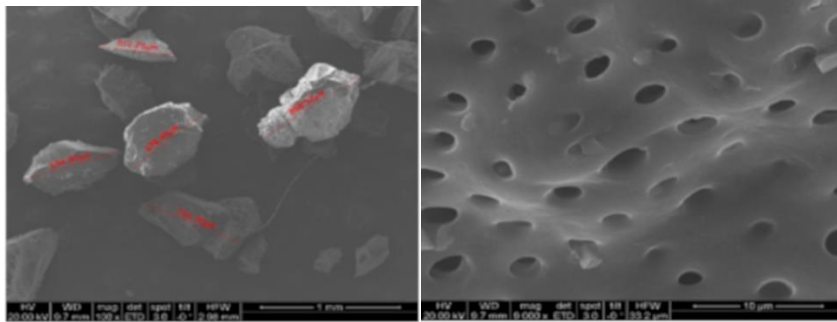
Figure 1.2 SEM of Group 2a



A. Particle size, B. Rounded dentinal tubules, C. Dentinal tubules with scattered cluster of crystals and smooth surface, D. Higher magnification showing crystal distribution. Hydroxyapatite crystals under high magnification

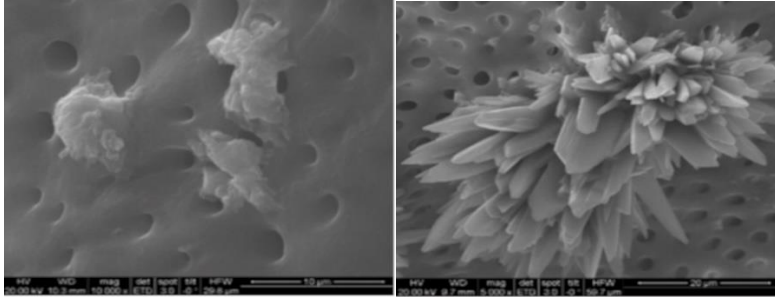
SEM of Group 2b: Teeth extracted from old adult females due to periodontal issues,
powdered and demineralized

Figure 1.3. SEM of Group 2b



A

B



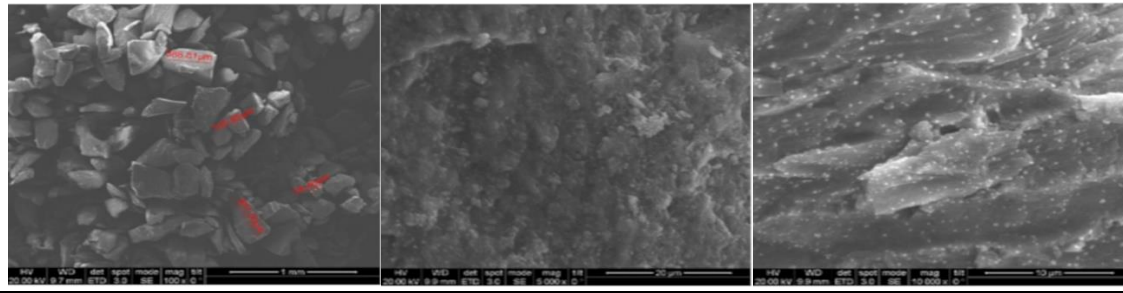
C

D

A. Particle size, B. Smooth dentinal tubules, C. Cluster of crystals between the dentinal tubules, D. Higher magnification shows needle like hydroxyapatite crystals

SEM of Group 3: Teeth extracted from each of the subgroups but, were not demineralized

Figure 1.4.SEM of Group 3(young male)



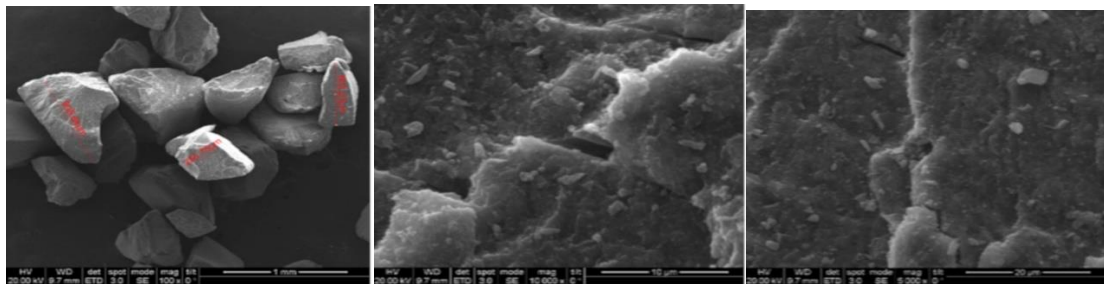
A

B

C

A. Particle size, B & C. Dentinal tubules with crystals shown as white sports

Figure 1.5.SEM of Group 3(young female)



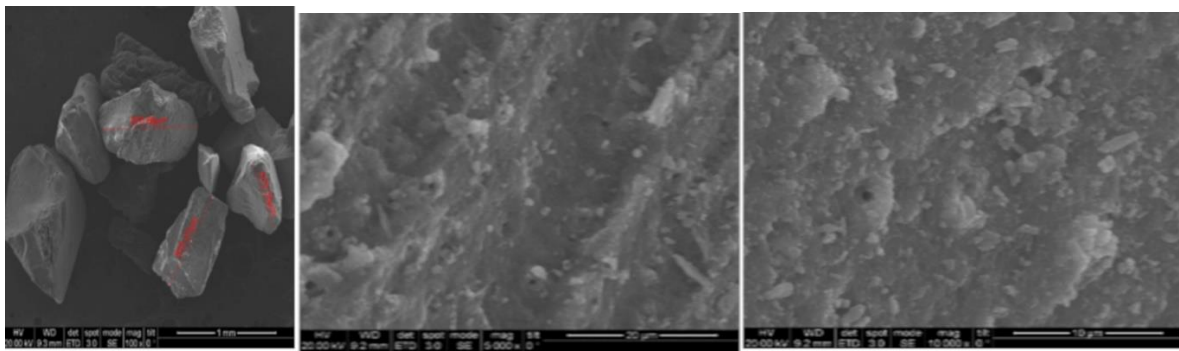
A

B

C

A. Particle size, B & C. Dentinal tubules with irregularly shaped tiny particles

Figure 1.6. SEM of Group 3(old male)



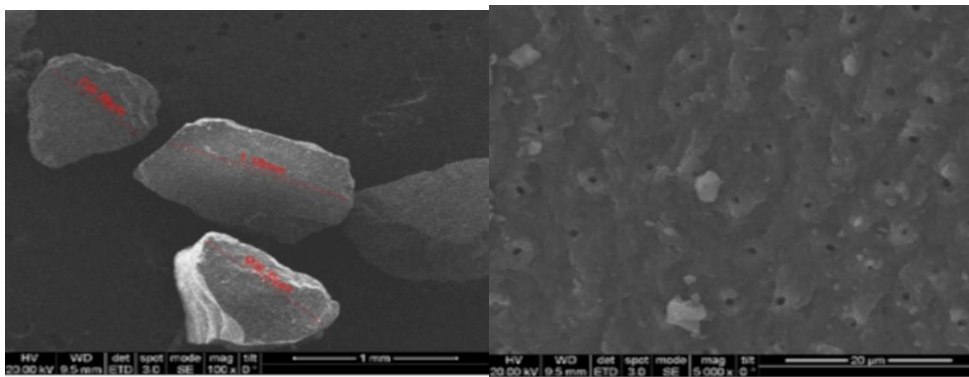
A

B

C

A. Particle size, B & C. Dentinal tubules with irregularly shaped tiny particles not as tightly packed

Figure 1.7. SEM of Group 3(old female)



A

B

A. Particle size, B. Dentinal tubules with irregularly shaped tiny particles not as tightly packed