



Titanium is **ACTIVE** reducing platelet & fibrin deposition versus Carbon as a reference material

METHODS

In vivo investigation of Titanium films was performed by implanting Titanium coated Carbon and uncoated Carbon cylinders which were used as a reference material into the ventral aorta of the same dog (5 in total). After 14 days, each sample was removed and observed by Scanning Electron Microscopy.

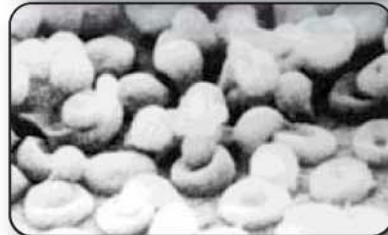
RESULTS

TITANIUM

Absence of platelet aggregation & fibrin deposition

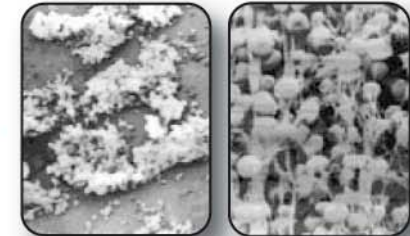


Red blood cells are normal or almost normal on the Titanium surface



CARBON

Presence of a large amount of platelet aggregation & fibrin deposition



Red blood cells are damaged by contact on the Carbon surface



CONCLUSION

Despite the fact that both TITANIUM and CARBON are highly bio and haemo compatible, only TITANIUM does reduce platelet aggregation and fibrin deposition.