

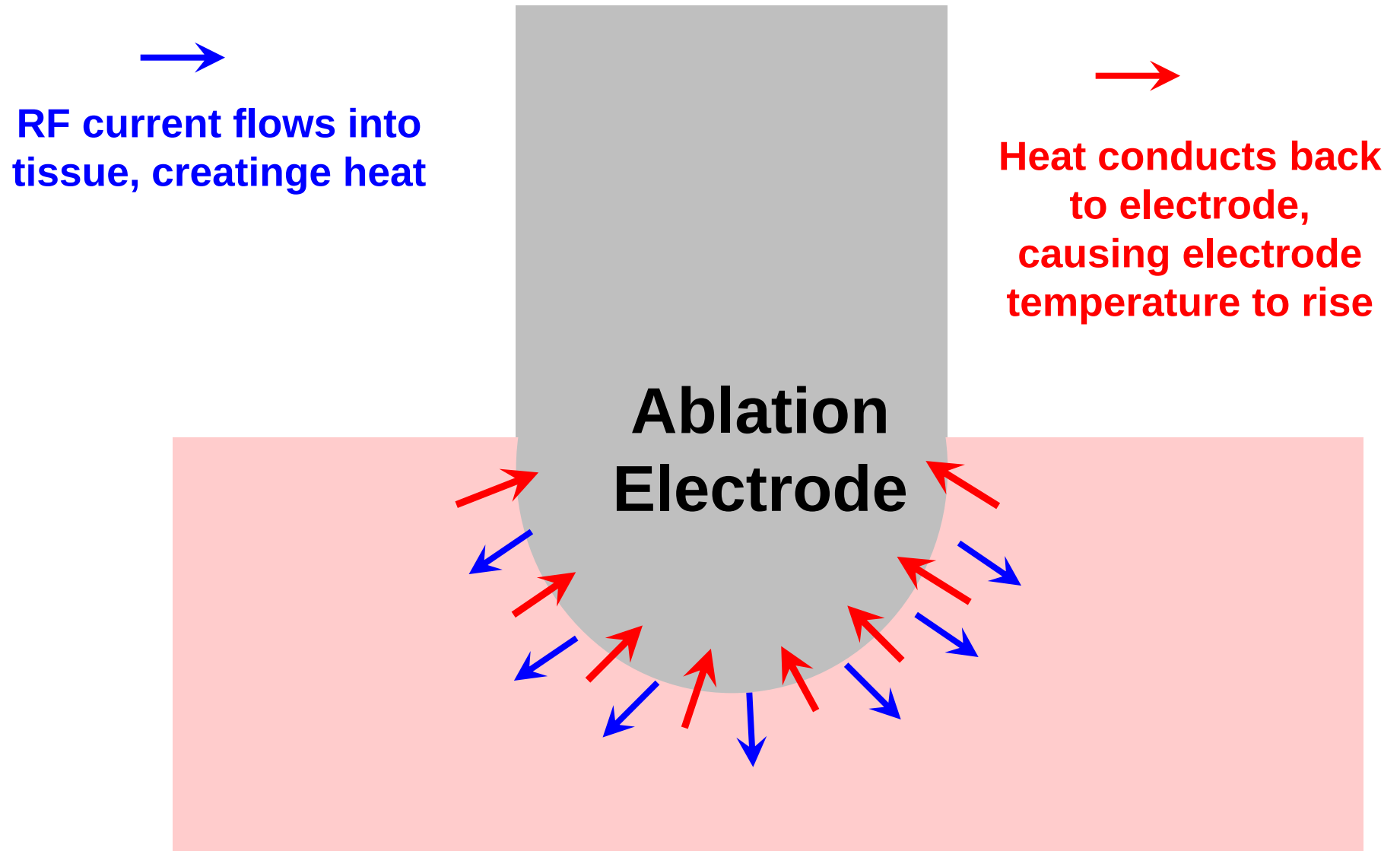


Figure 3.1A.

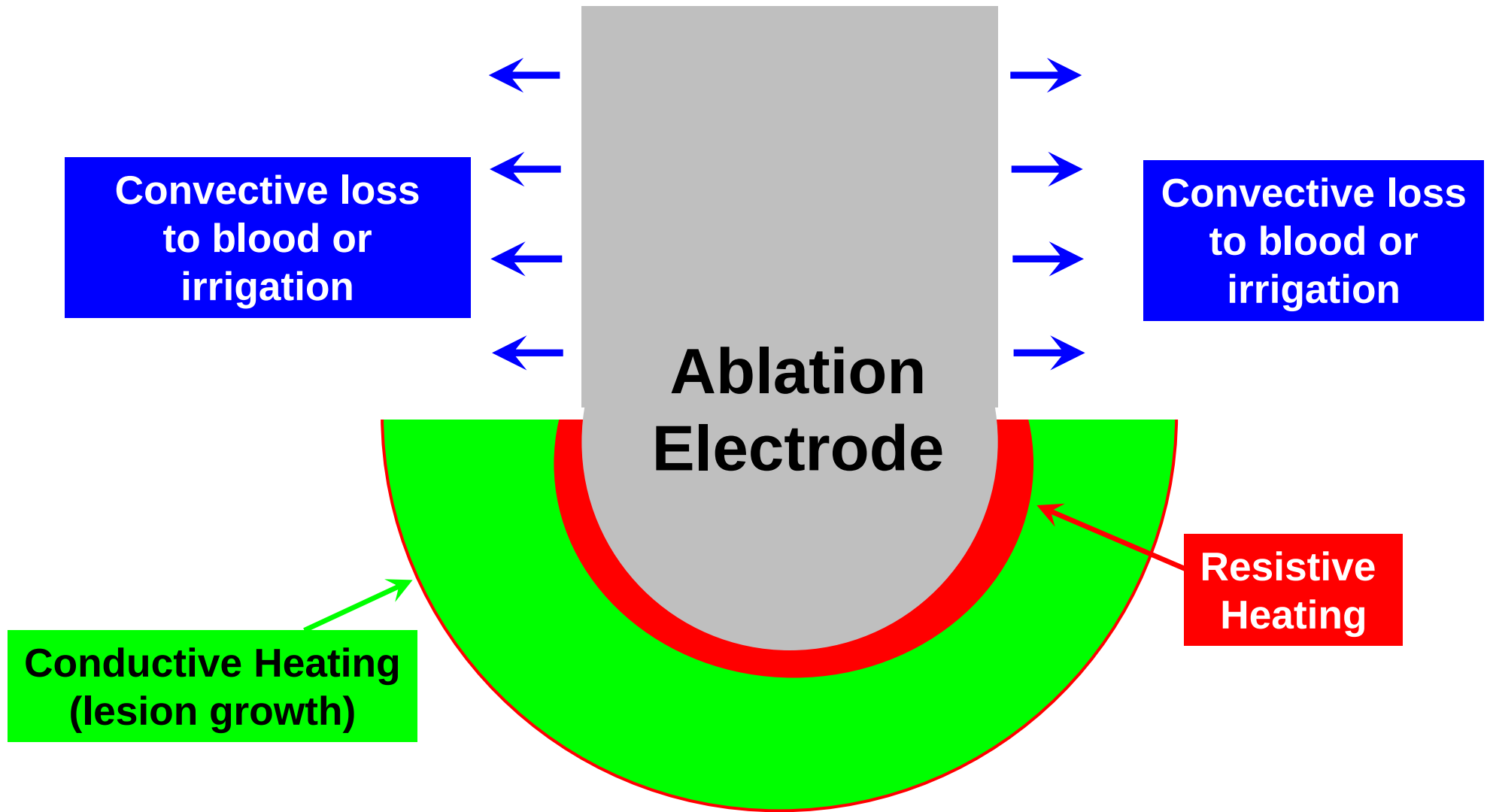


Figure 3.1B.

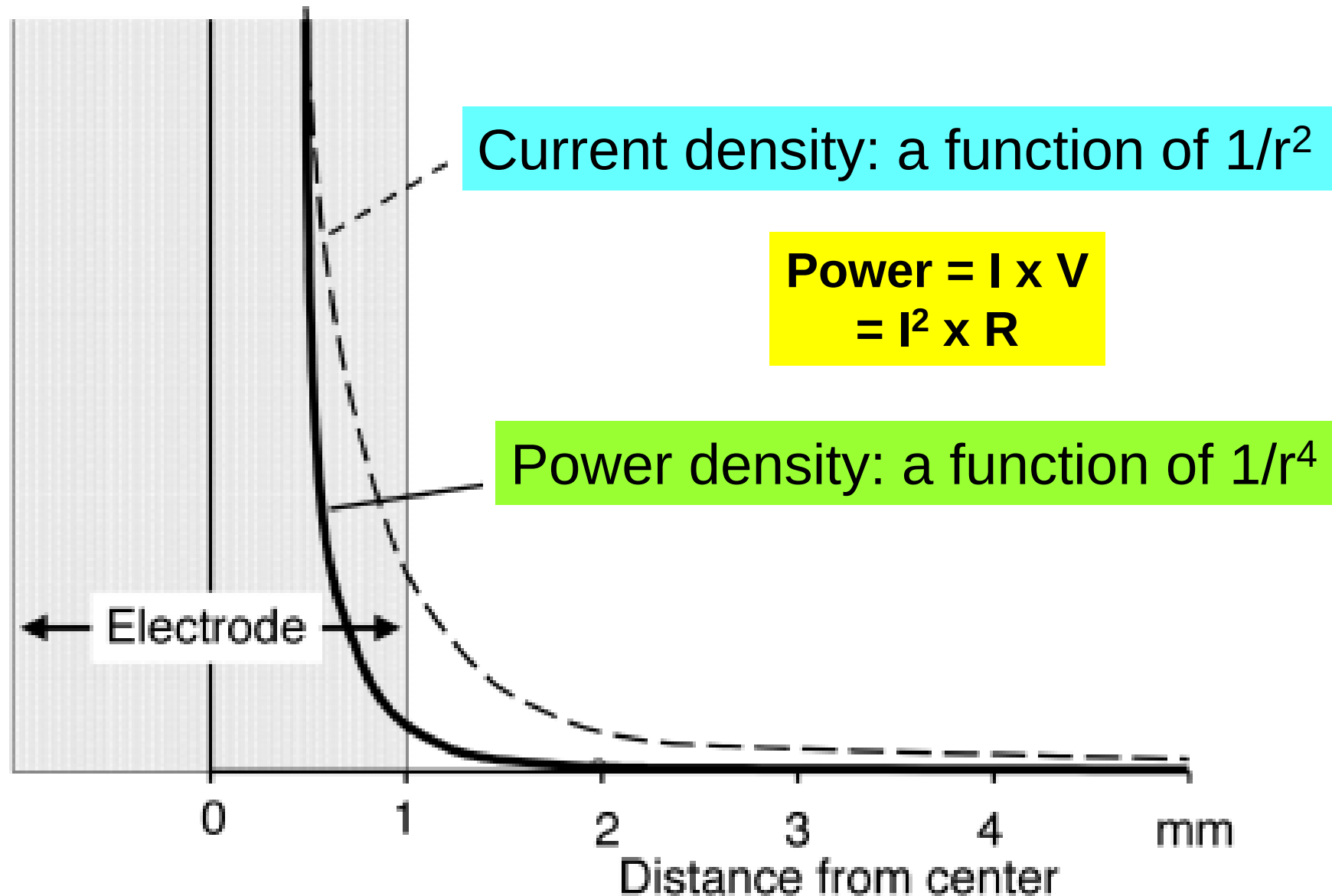


Figure 3.2A.

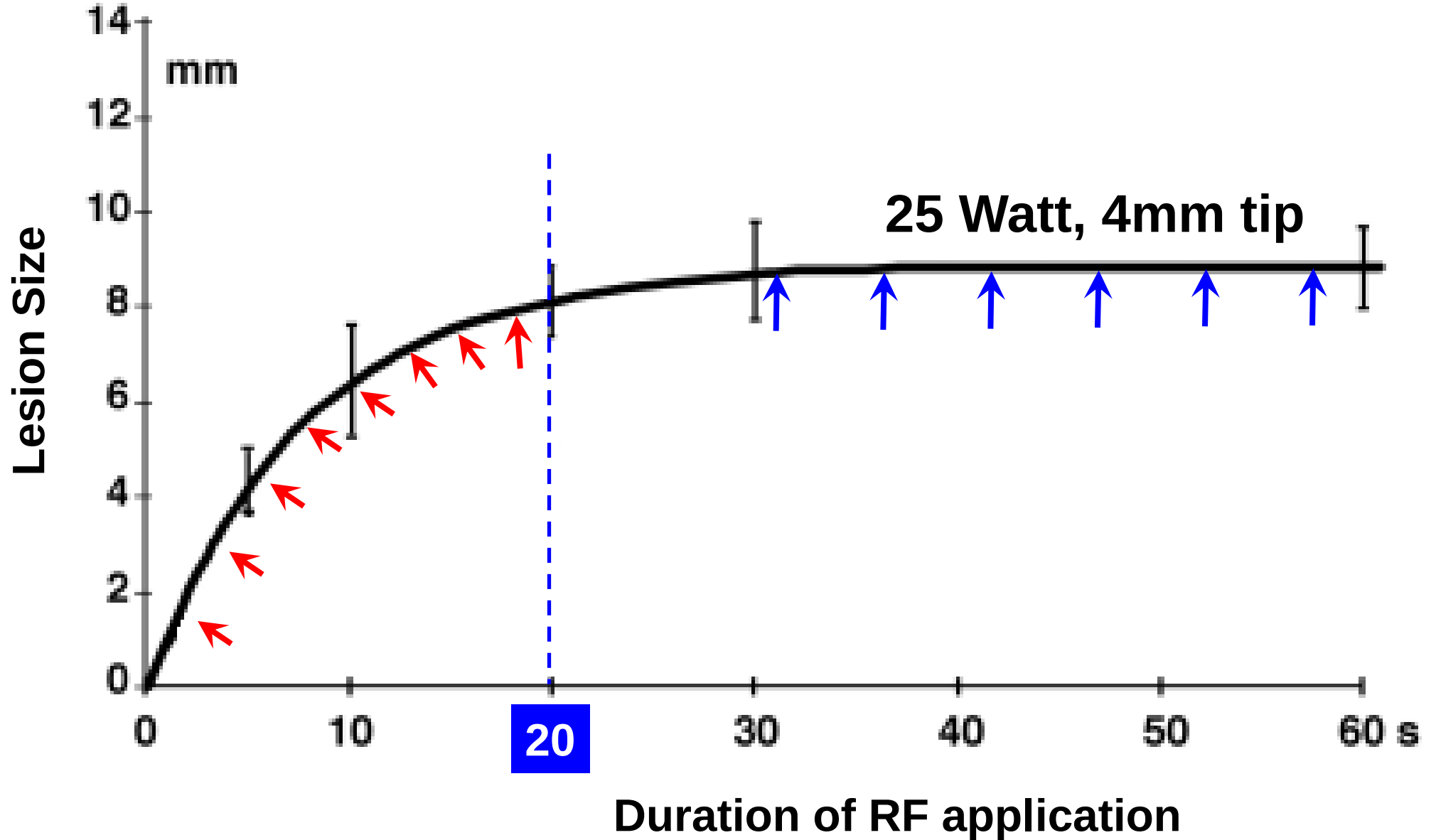


Figure 3.2B.

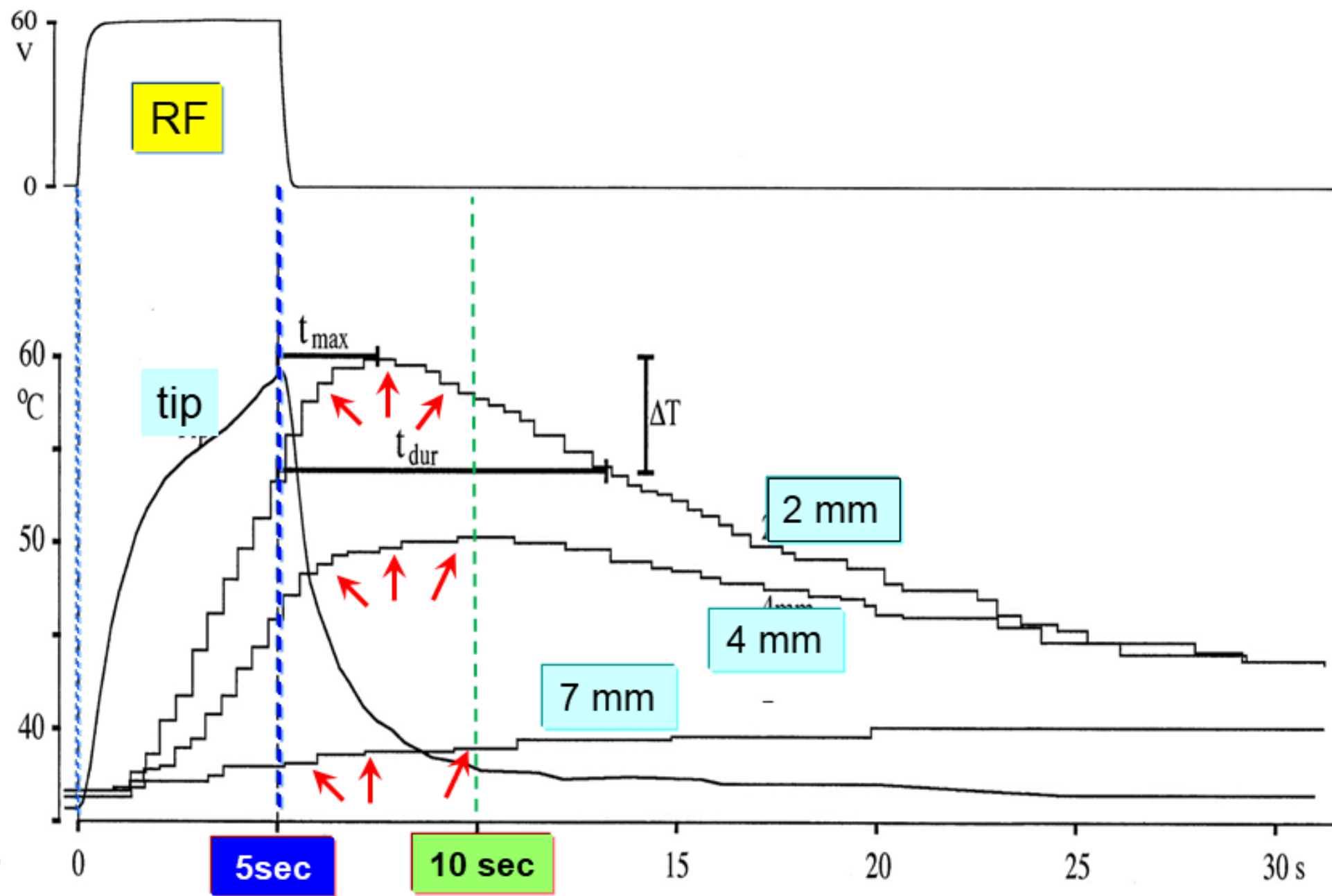


Figure 3.3

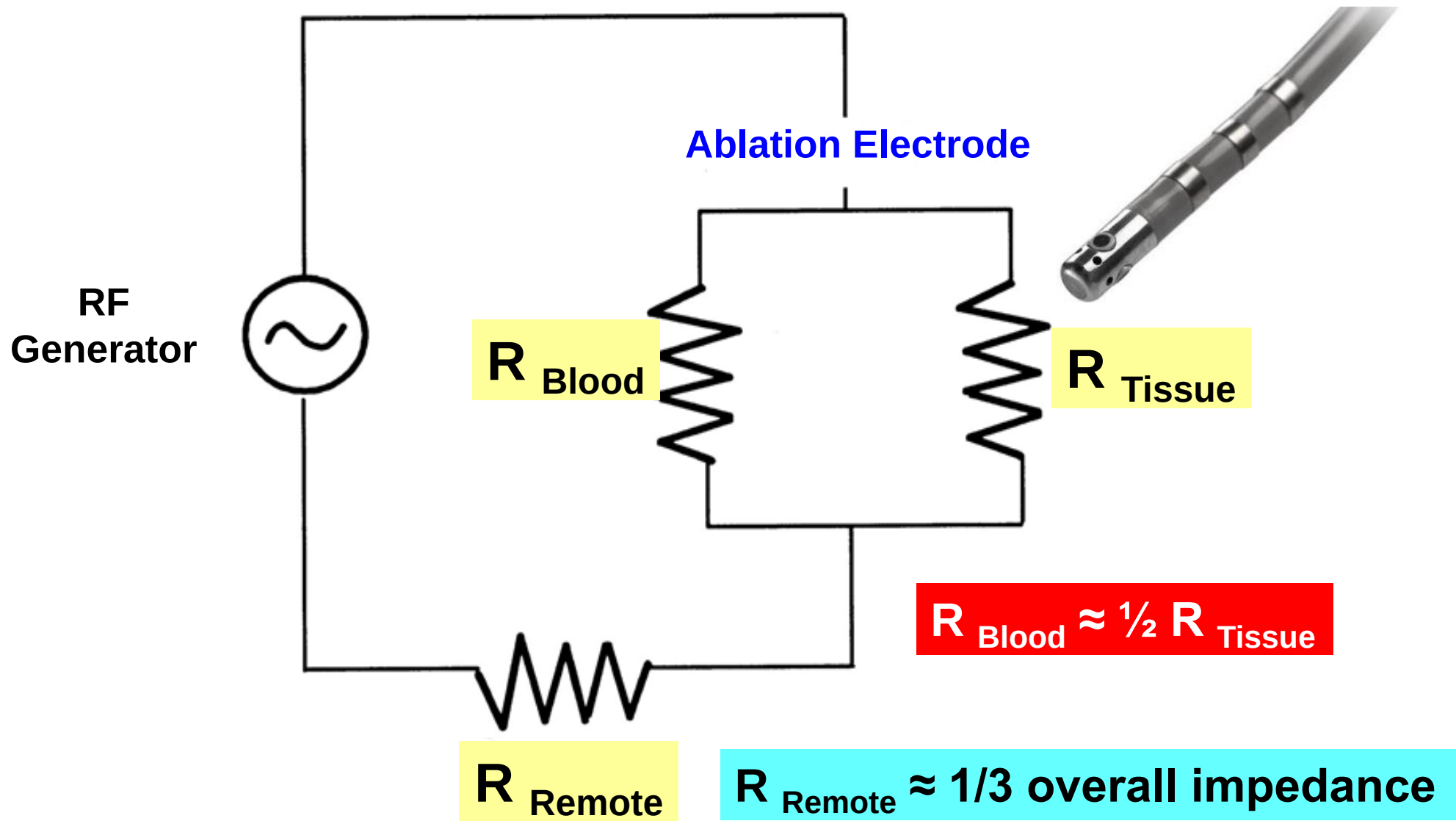


Figure 3.4A.

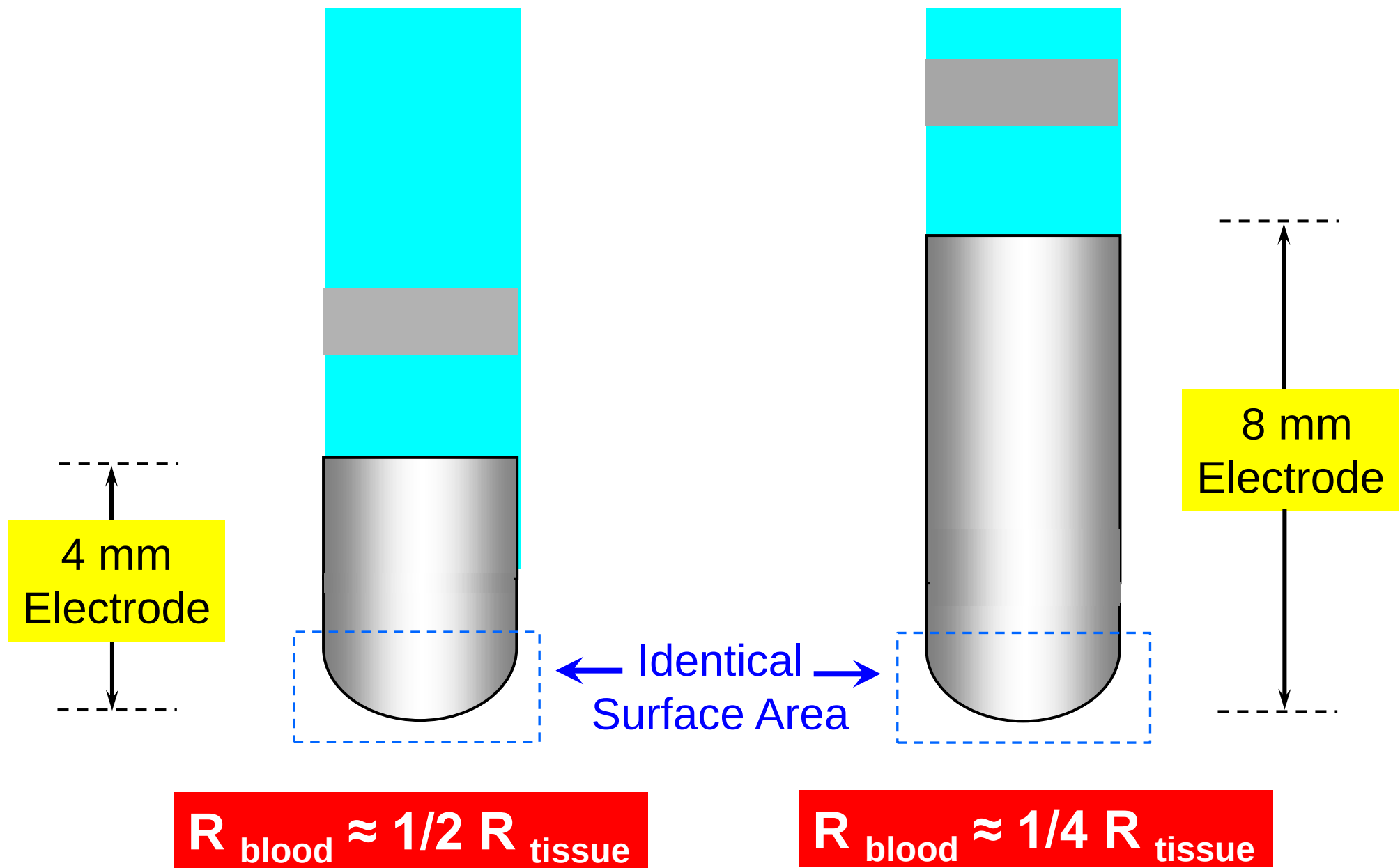


Figure 3.4B.

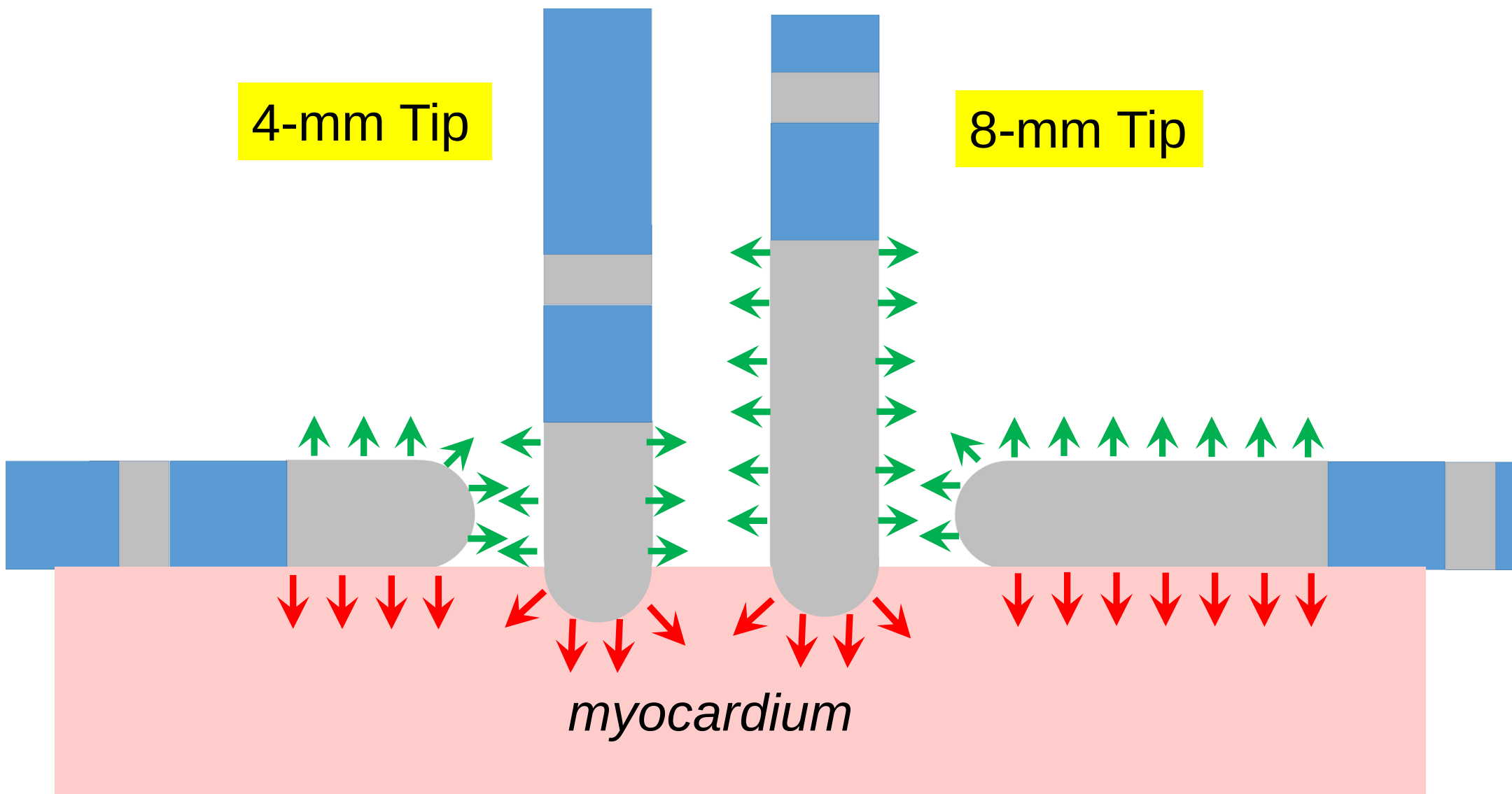


Figure 3.4C.

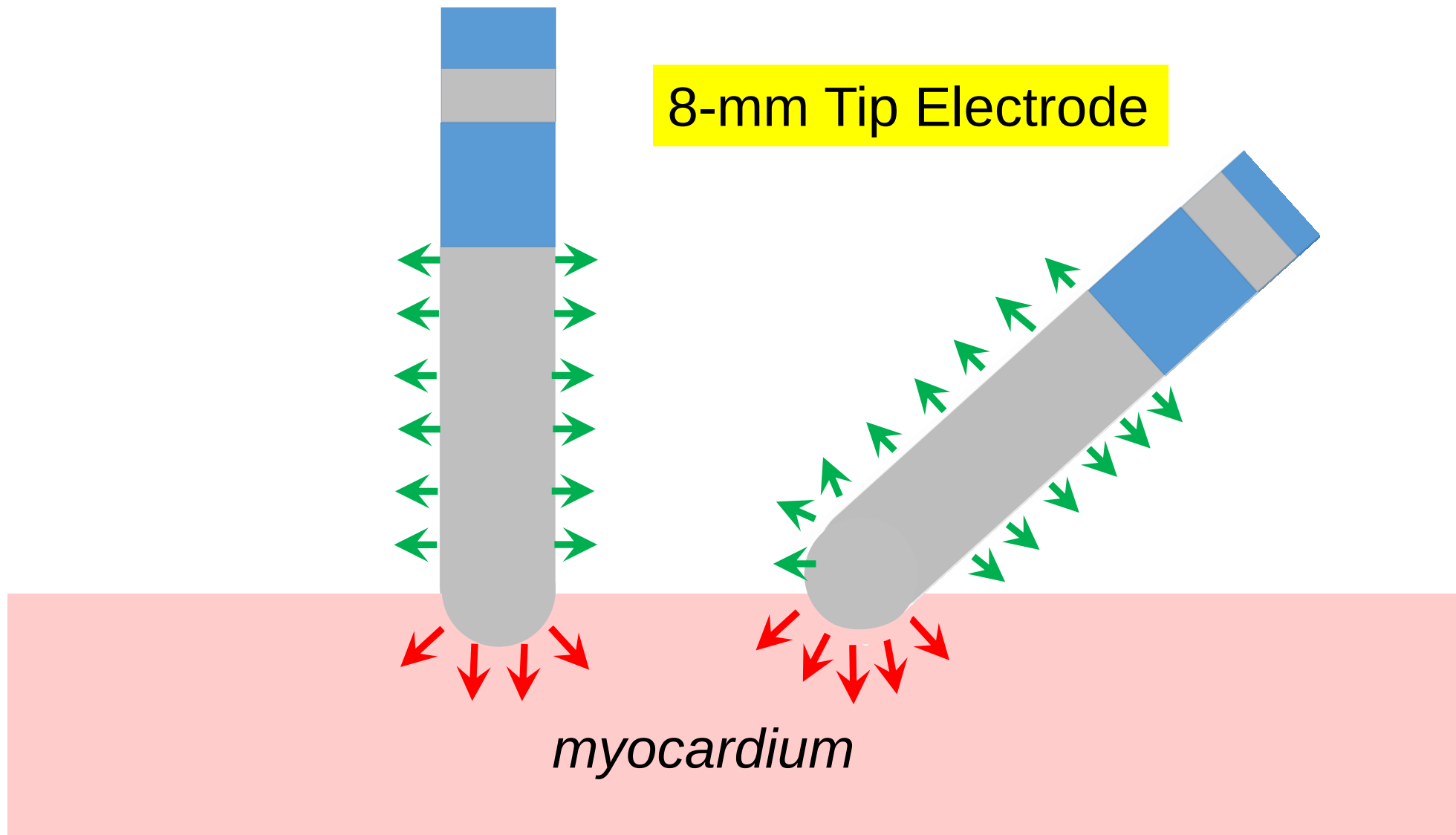


Figure 3.4D.

Jackman-Nakagawa Canine Thigh Muscle Preparation

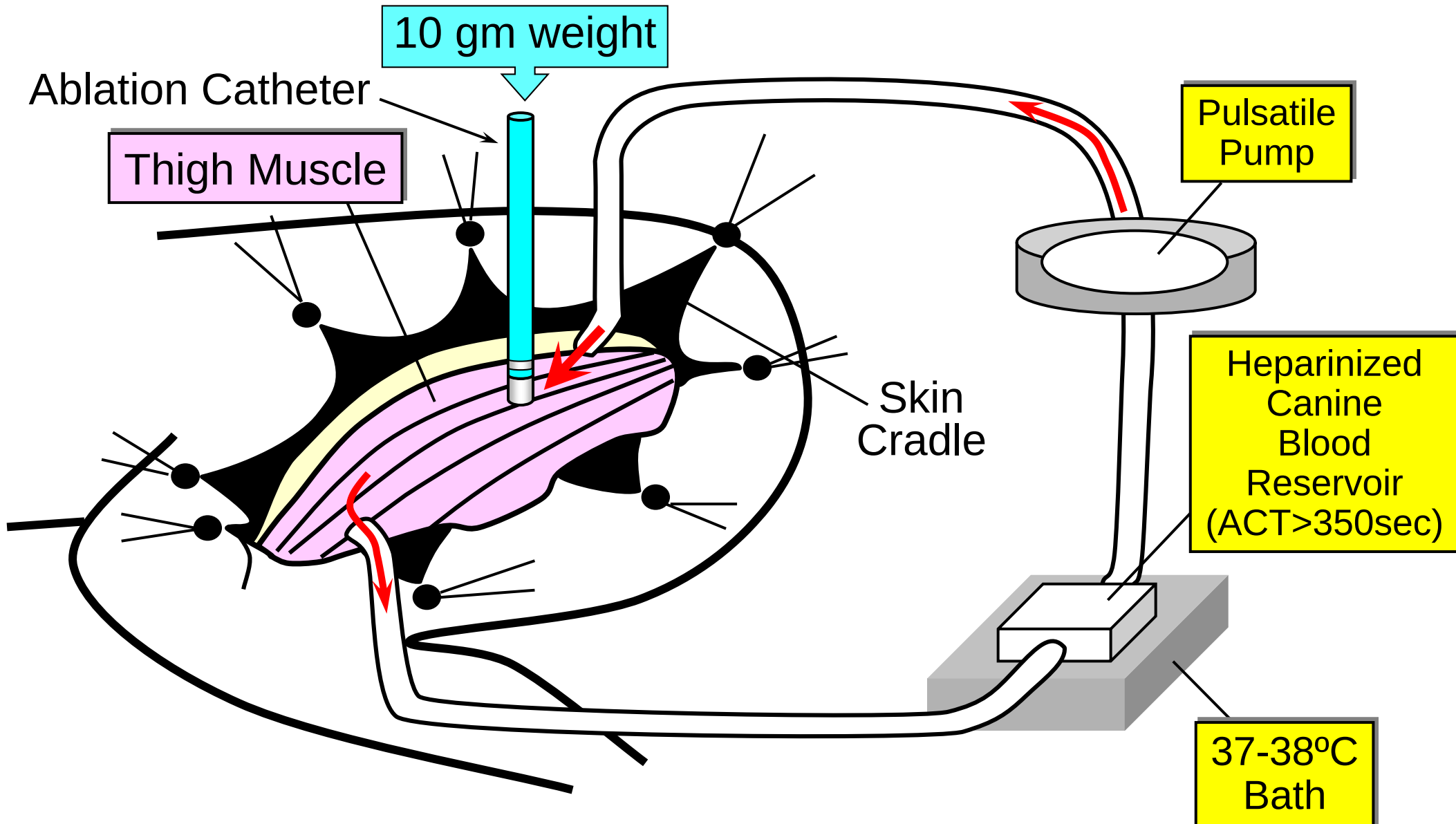


Figure 3.5A.

Courtesy of Drs. Jackman and Nakagawa

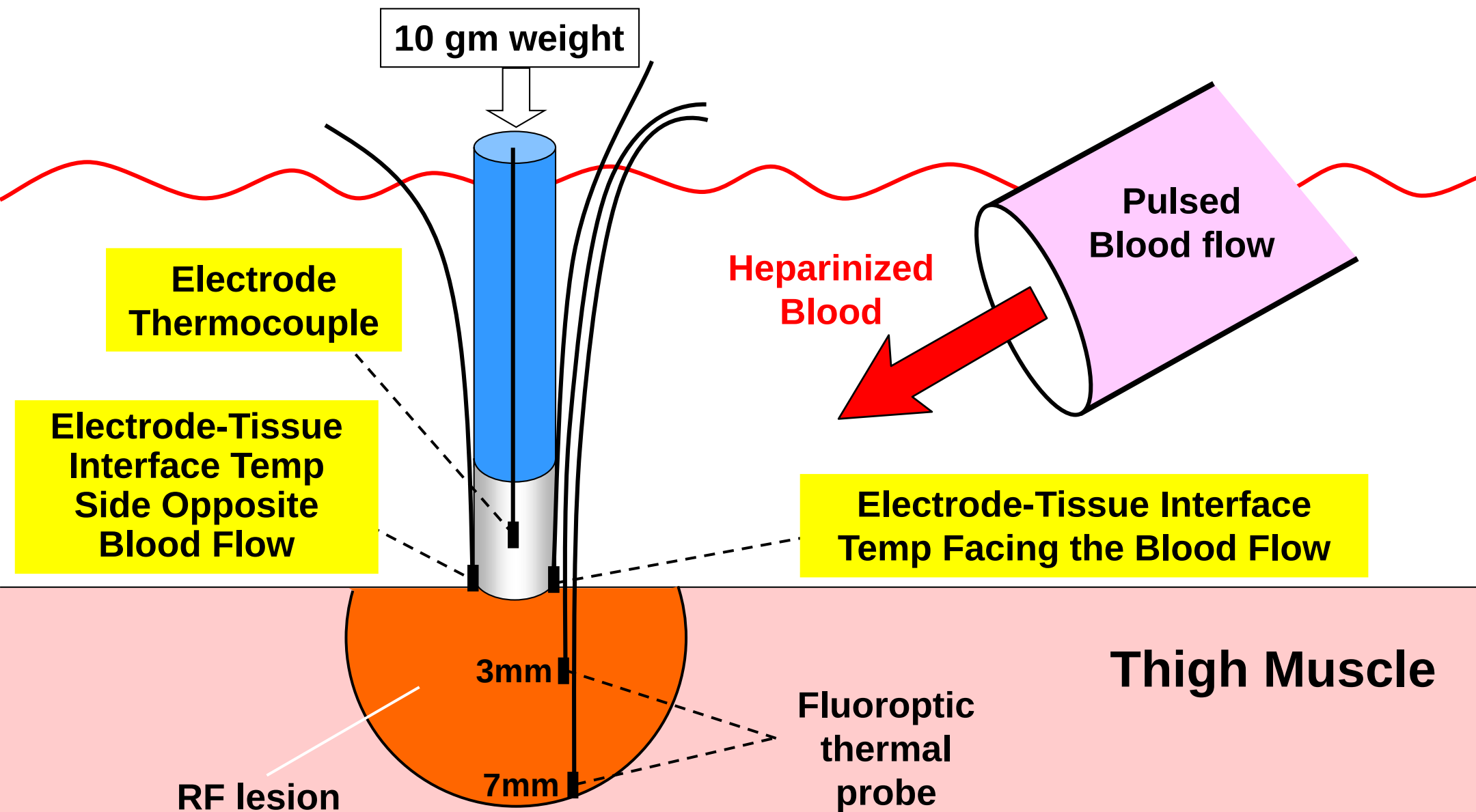


Figure 3.5B.

Courtesy of Drs. Jackman and Nakagawa

**4 mm Electrode,
Electrode
Temperature 75°C**

Without Blood Flow

Impedance

Power

**Electrode
Temperature**

**Tissue
Temperature**

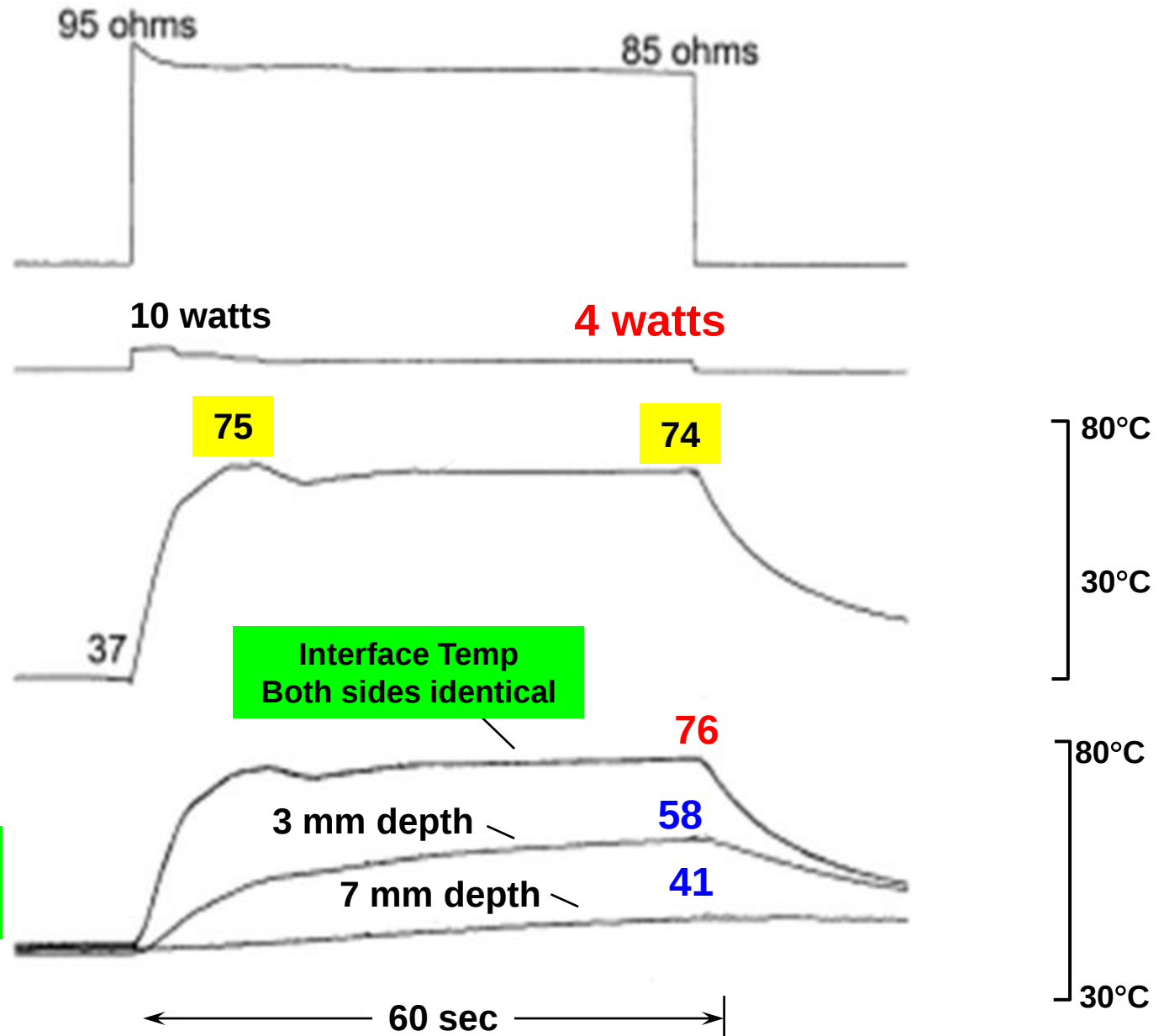


Figure 3.6A.

**4 mm Electrode,
Electrode
Temperature 75°C**

Impedance

Power

**Electrode
Temperature**

**Tissue
Temperature**

With Blood Flow (150 ml/min)

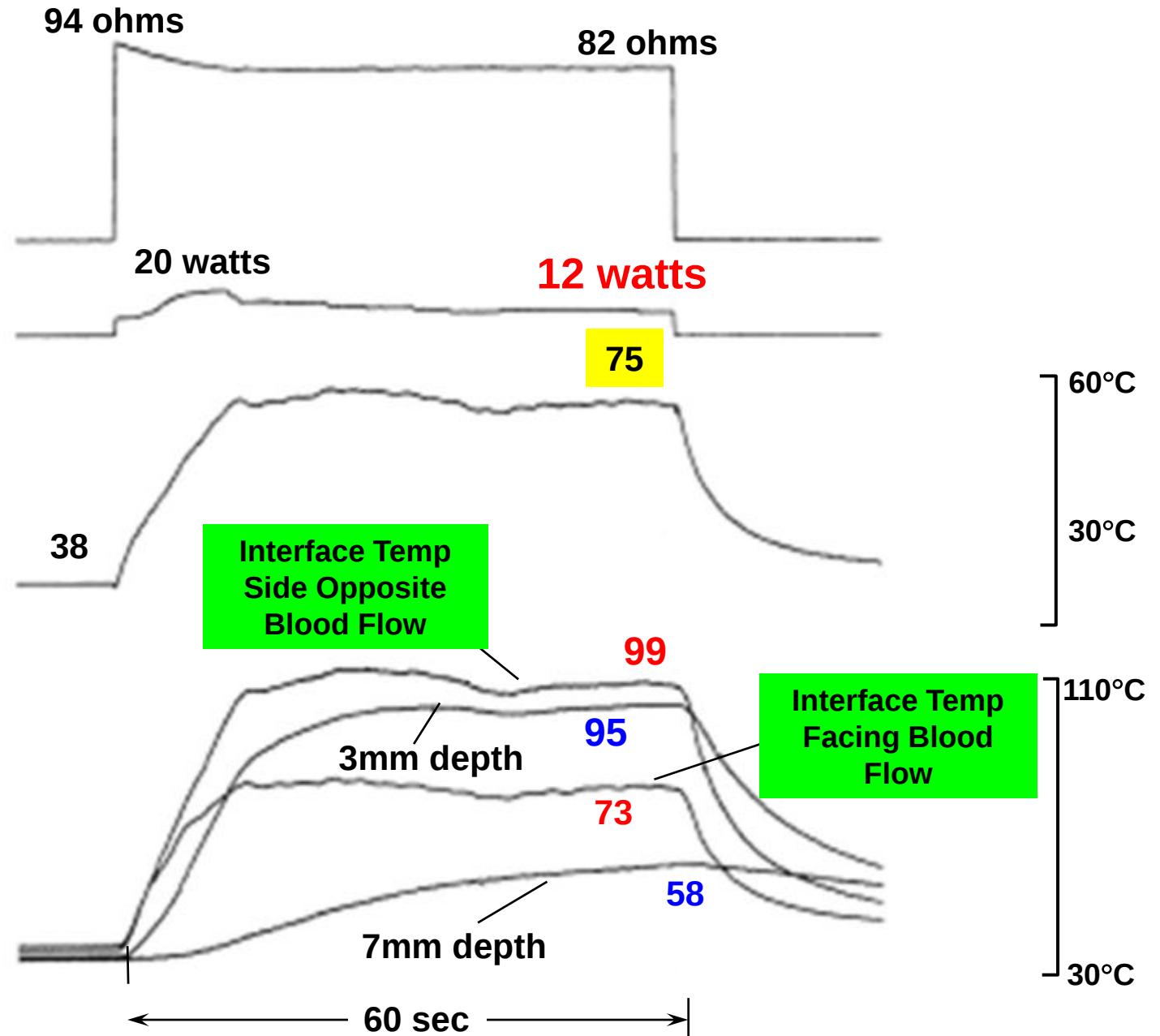
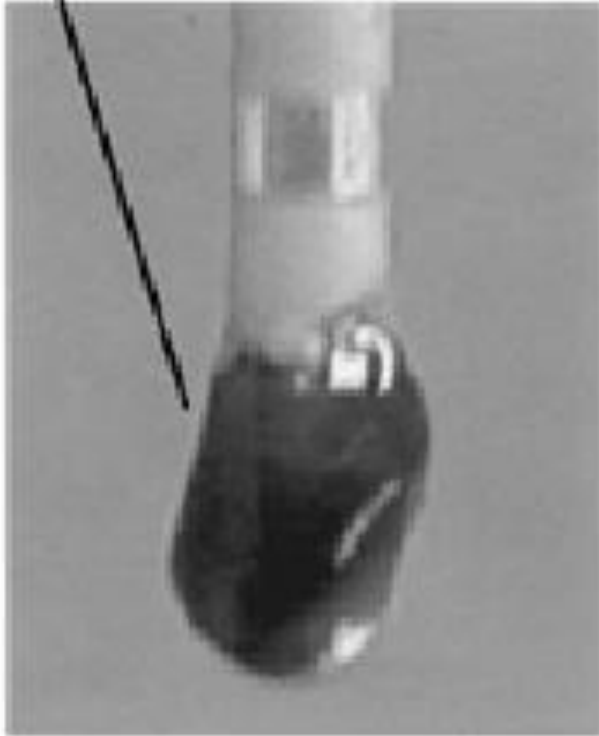


Figure 3.6B.

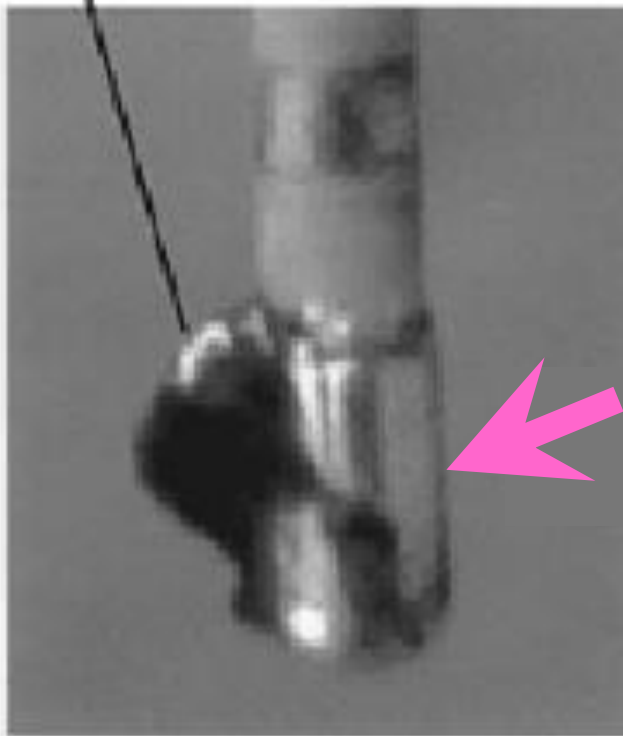
No Blood Flow

Thrombus



With Blood Flow

Thrombus



Thrombus

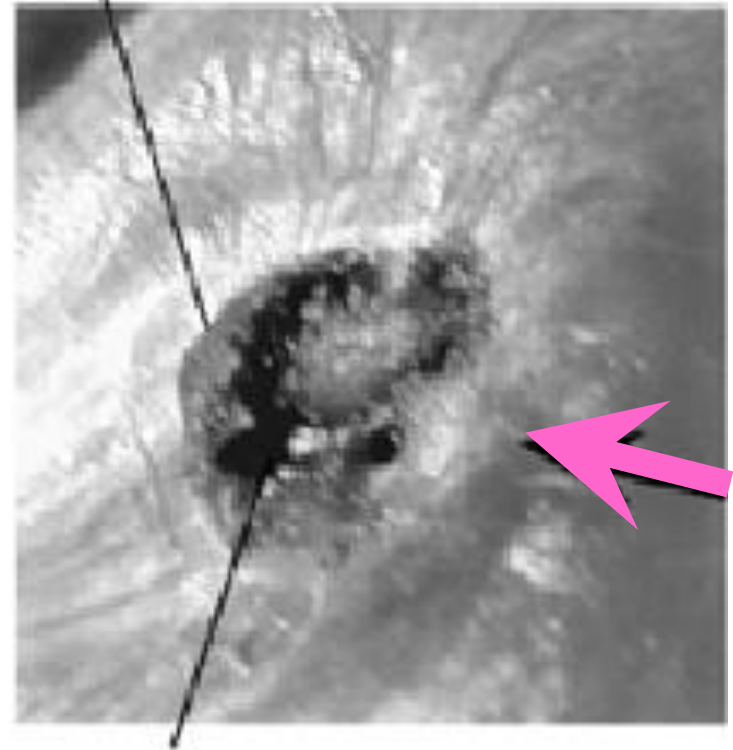


Figure 3.6C.

8 mm Electrode, Electrode Temperature 55°C

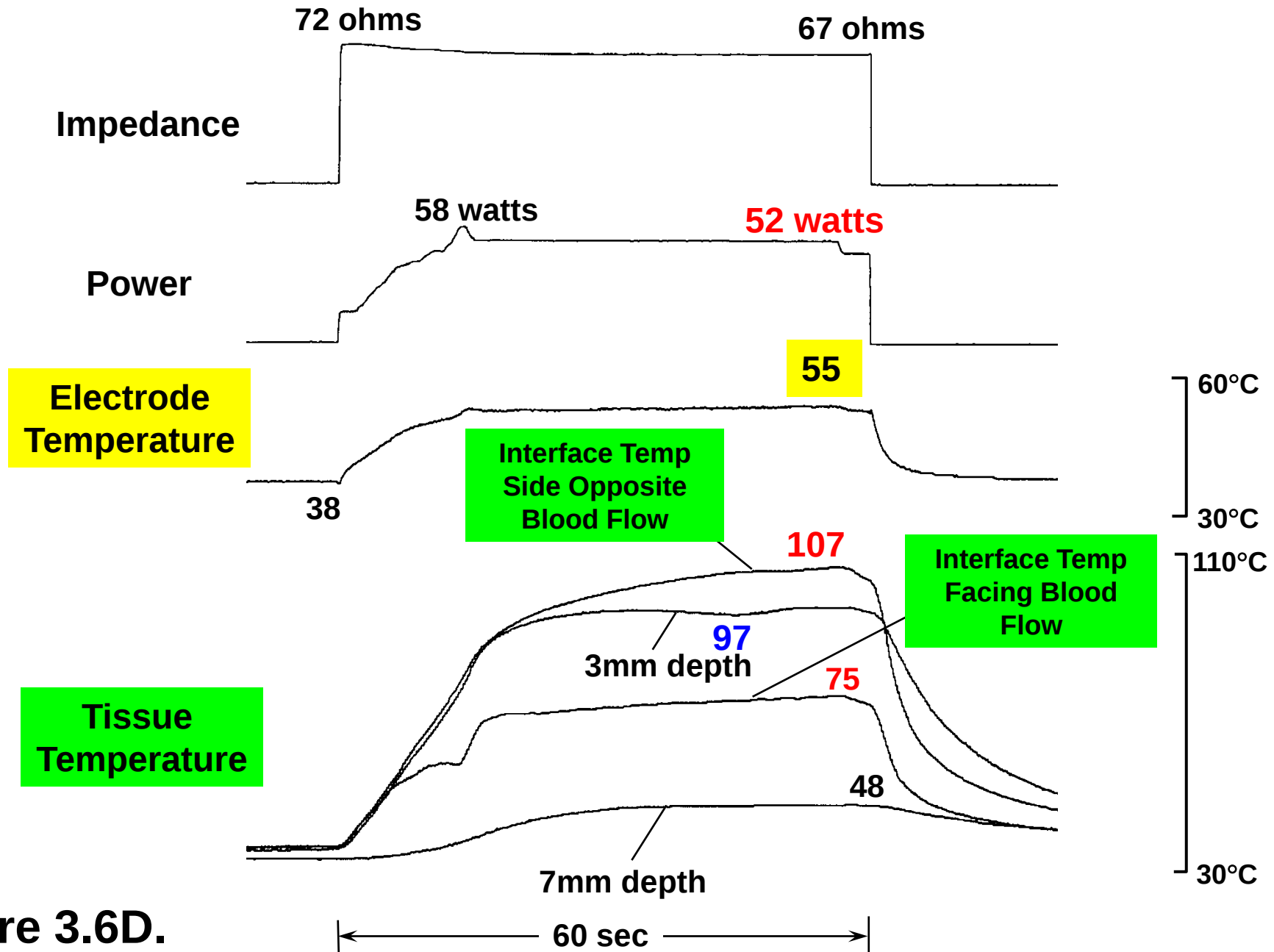


Figure 3.6D.

Highest Electrode-Tissue Interface Temperature (4 mm Electrode)

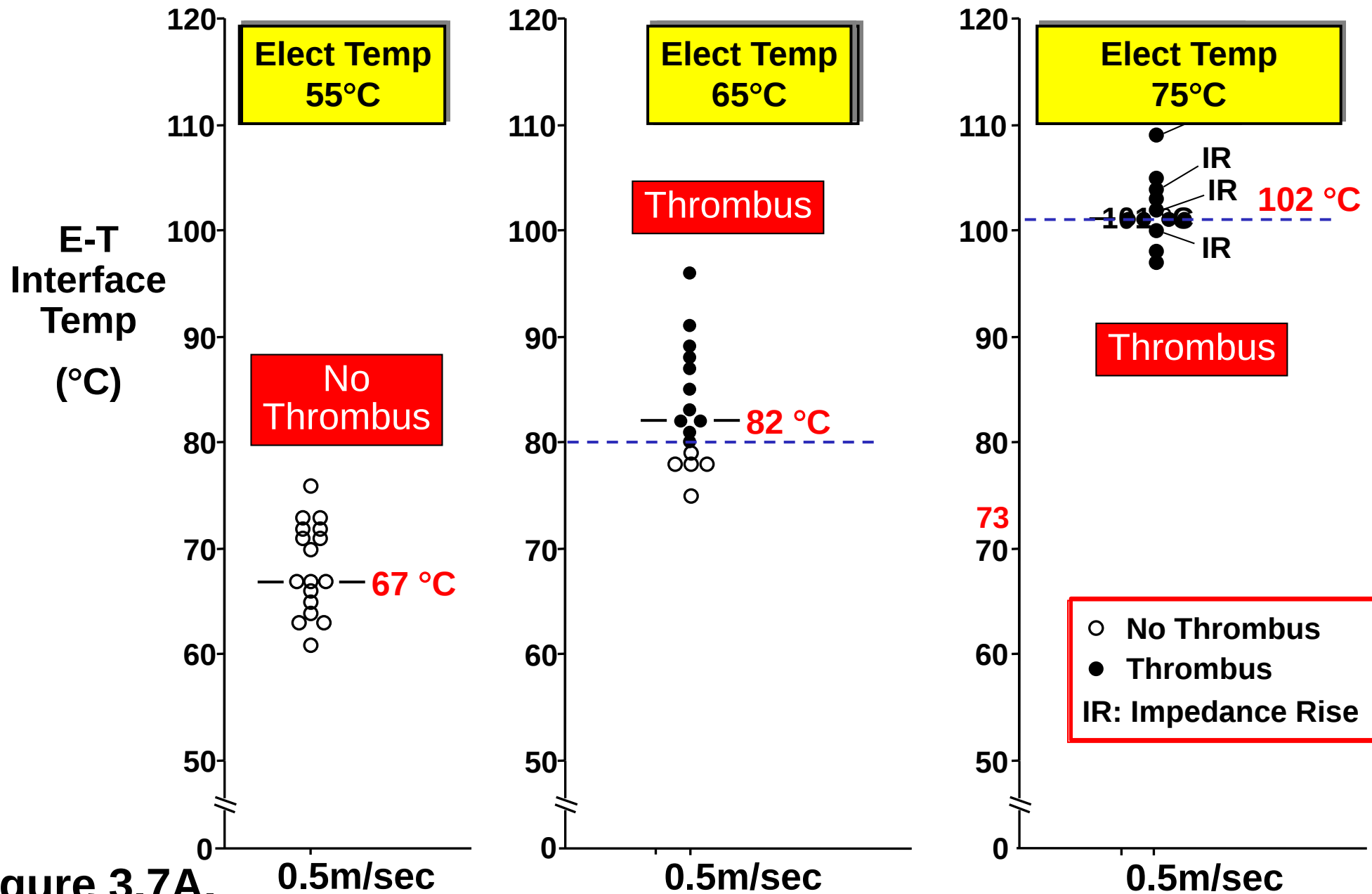


Figure 3.7A.

Highest Electrode-Tissue Interface Temperature (8 mm Electrode)

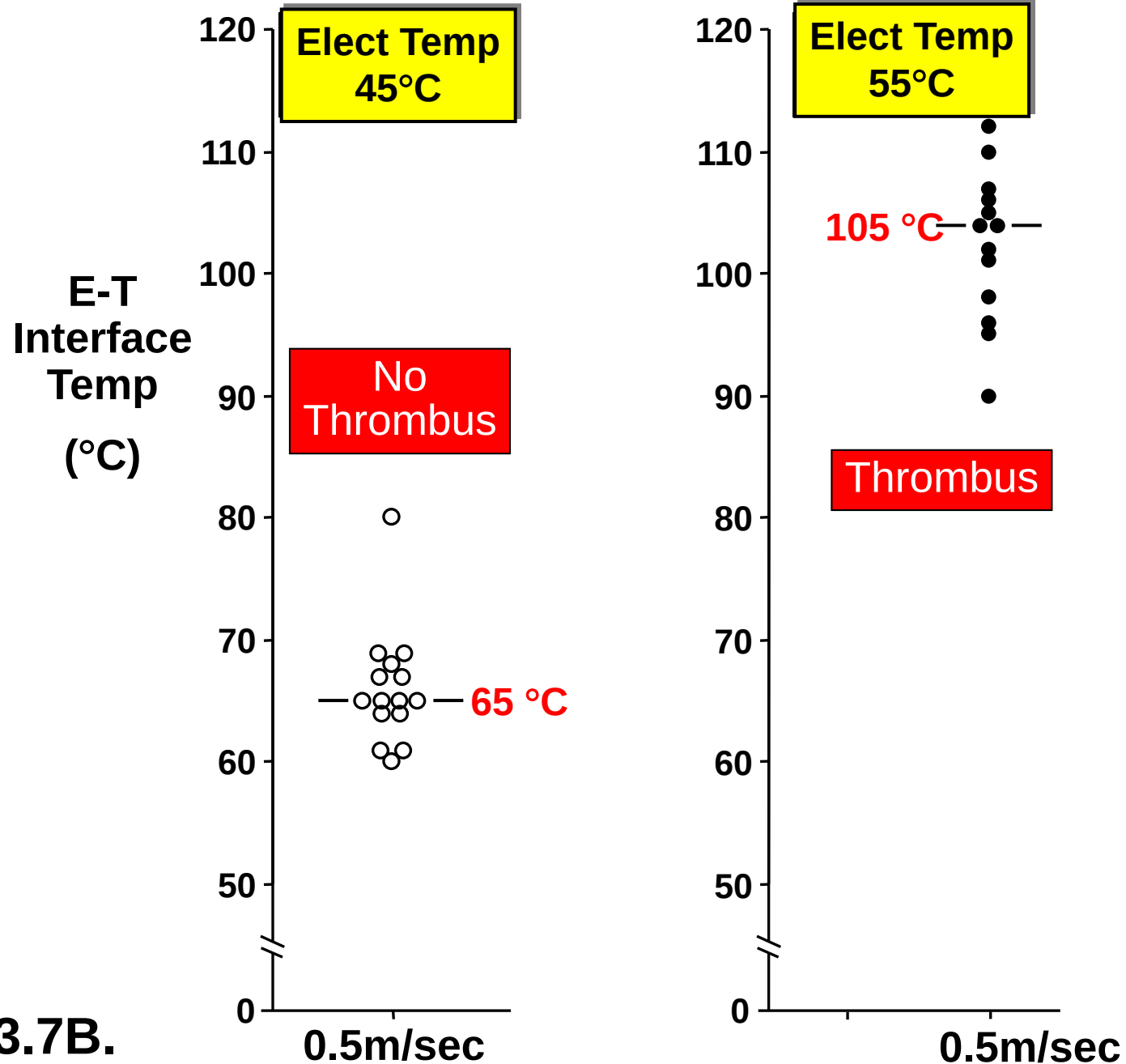
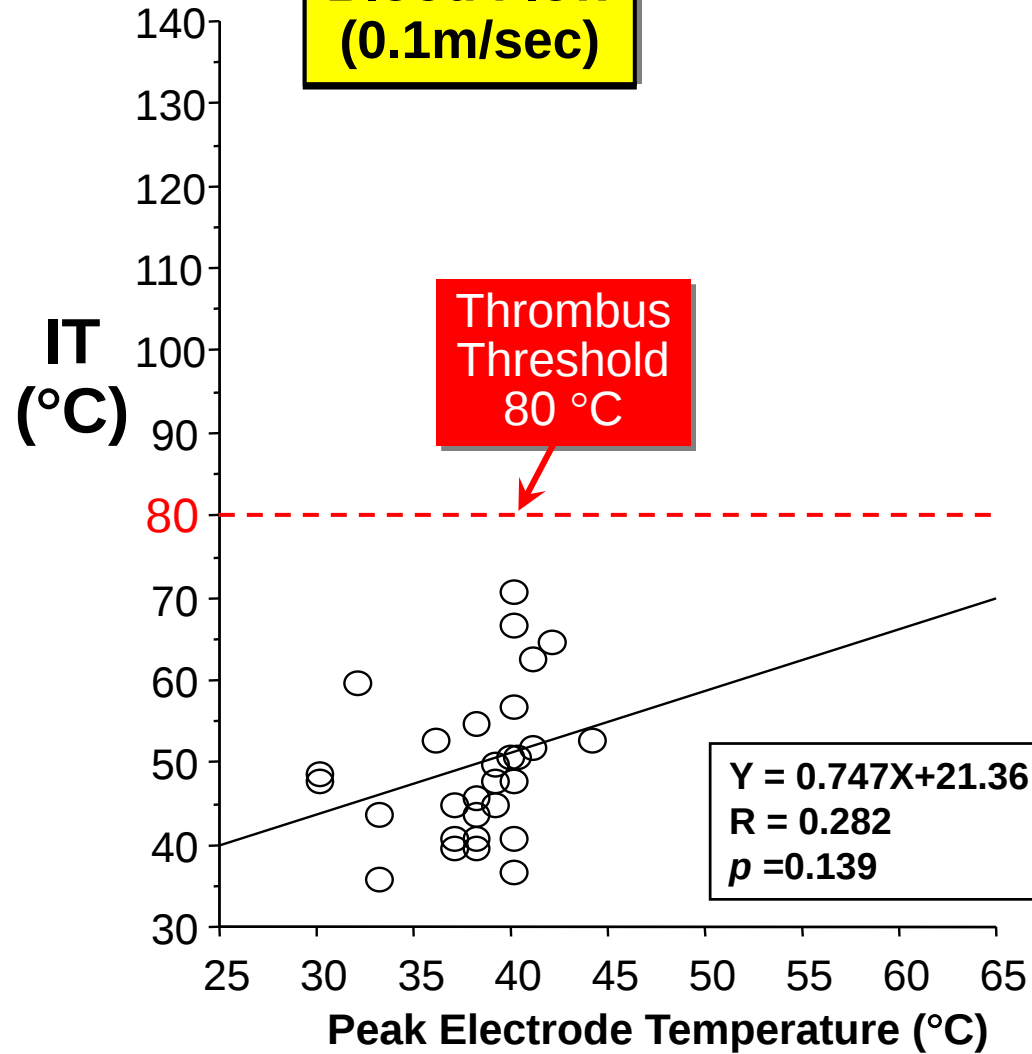


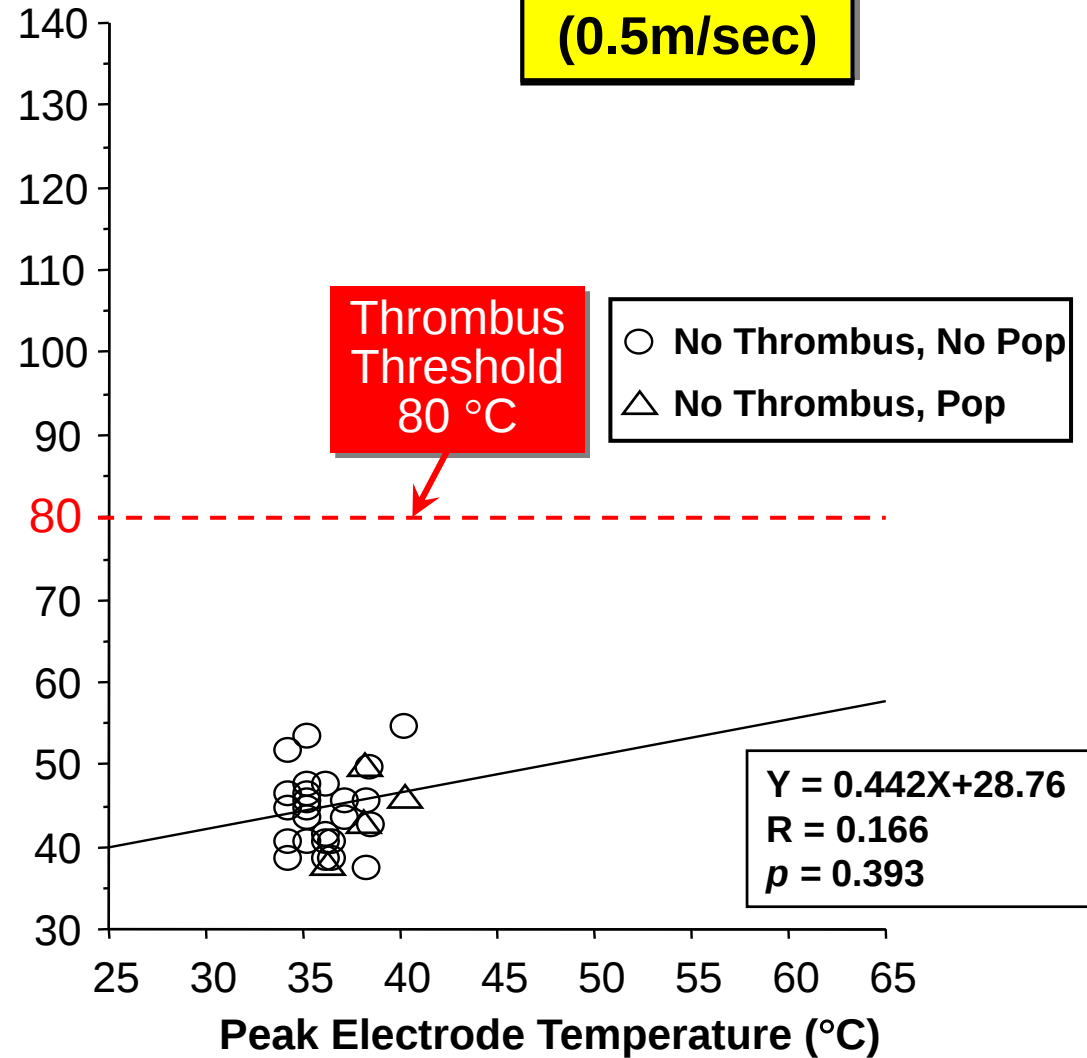
Figure 3.7B.

Saline Irrigation

**Low
Blood Flow
(0.1m/sec)**



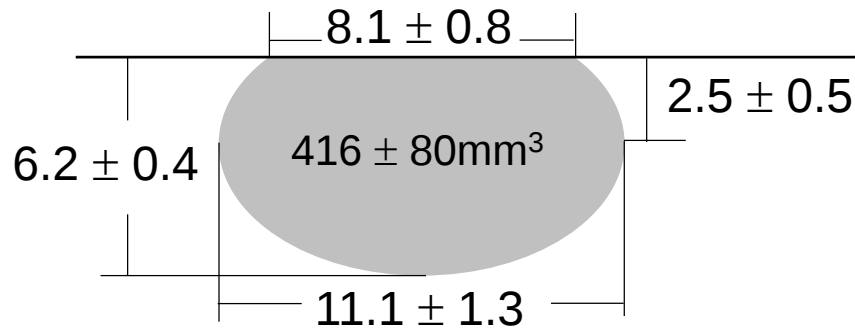
**High
Blood Flow
(0.5m/sec)**



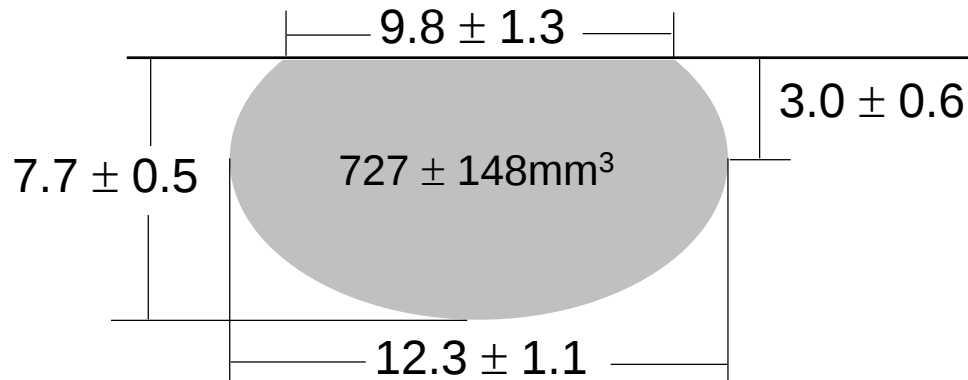
Lesion Dimensions

Low Blood Flow

20 W

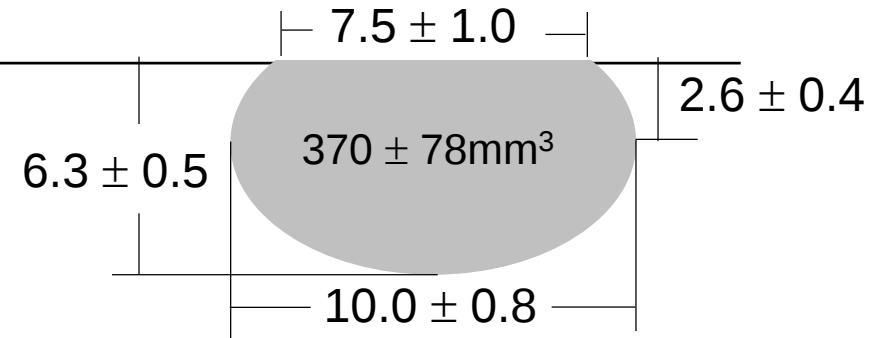


30 W



High Blood Flow

20 W



30 W

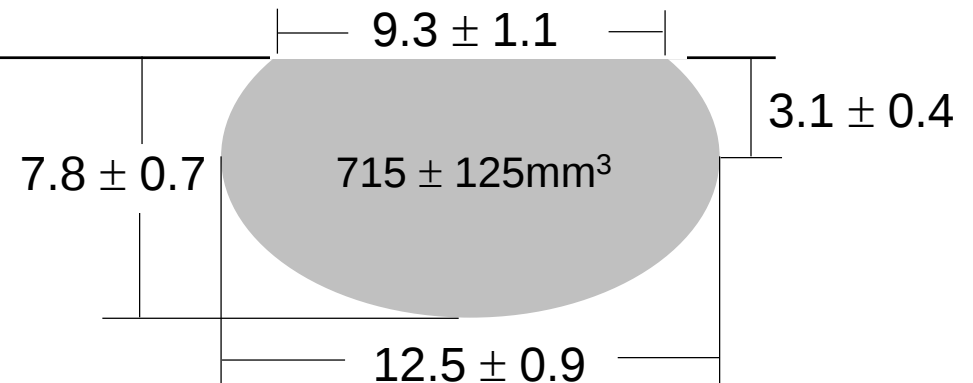


Figure 3.8B.

Low CF

Moderate CF

High CF

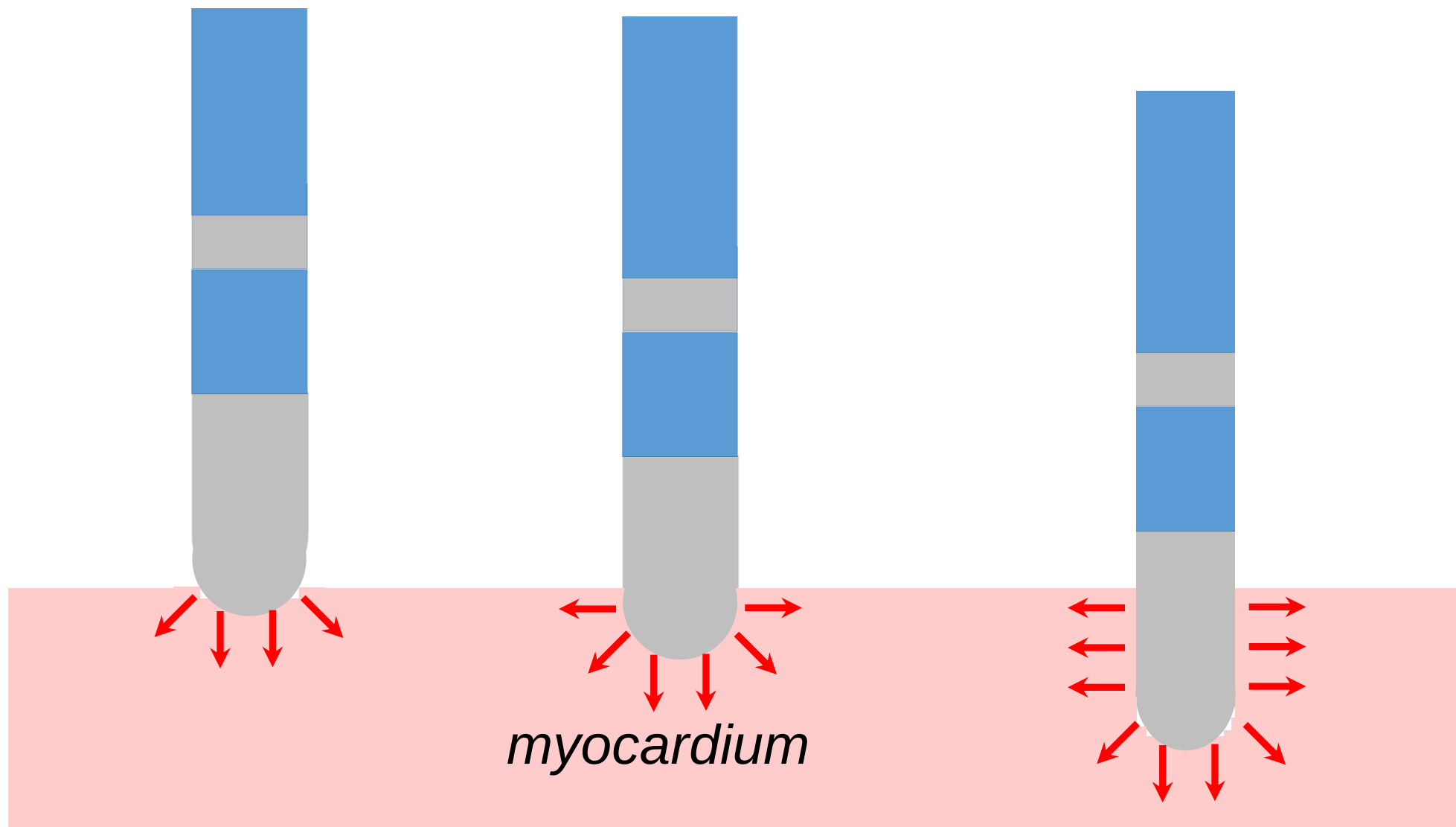
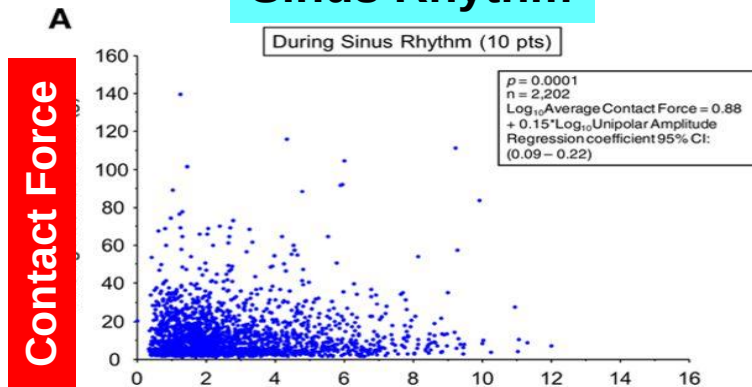
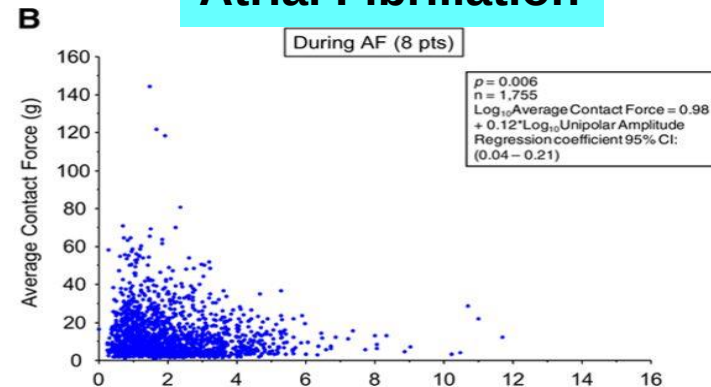


Figure 3.9A.

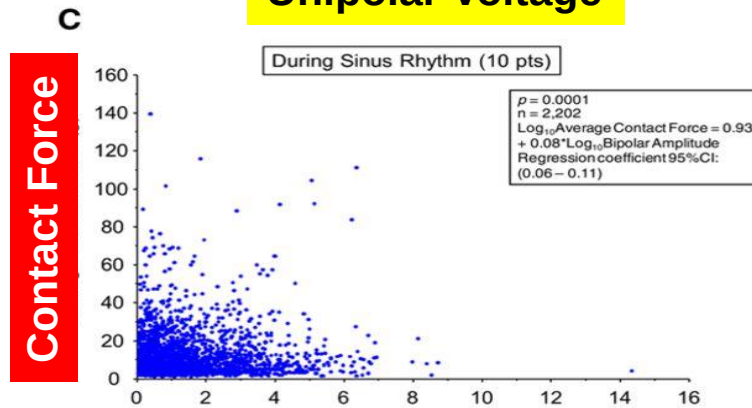
Sinus Rhythm



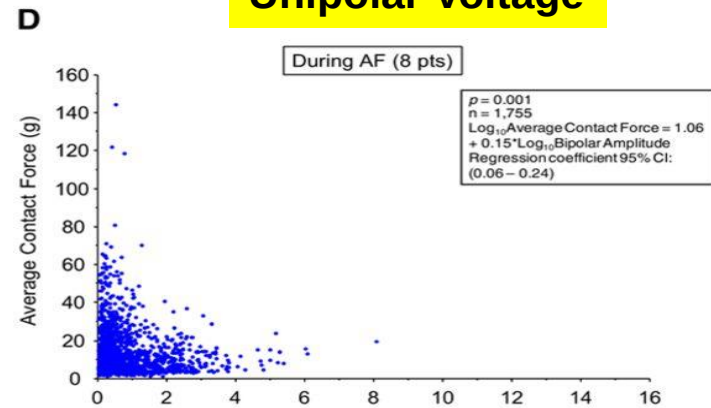
Atrial Fibrillation



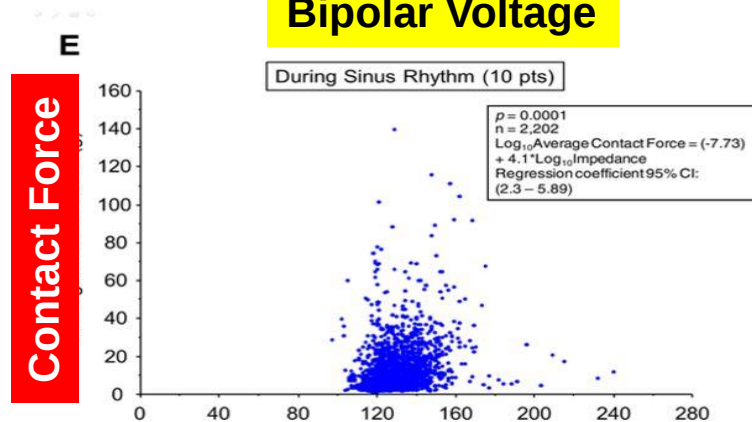
Unipolar Voltage



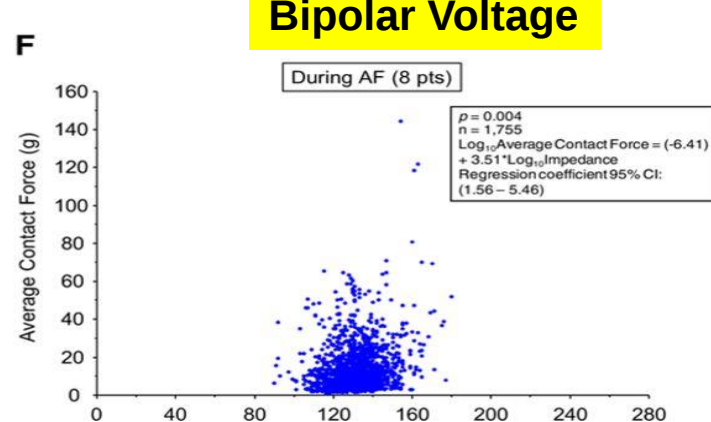
Unipolar Voltage



Bipolar Voltage



Bipolar Voltage



Impedance

Impedance

Figure 3.9B.

Contact Force: 20 g

Contact Force: 5 g

Contact Force: 0 g

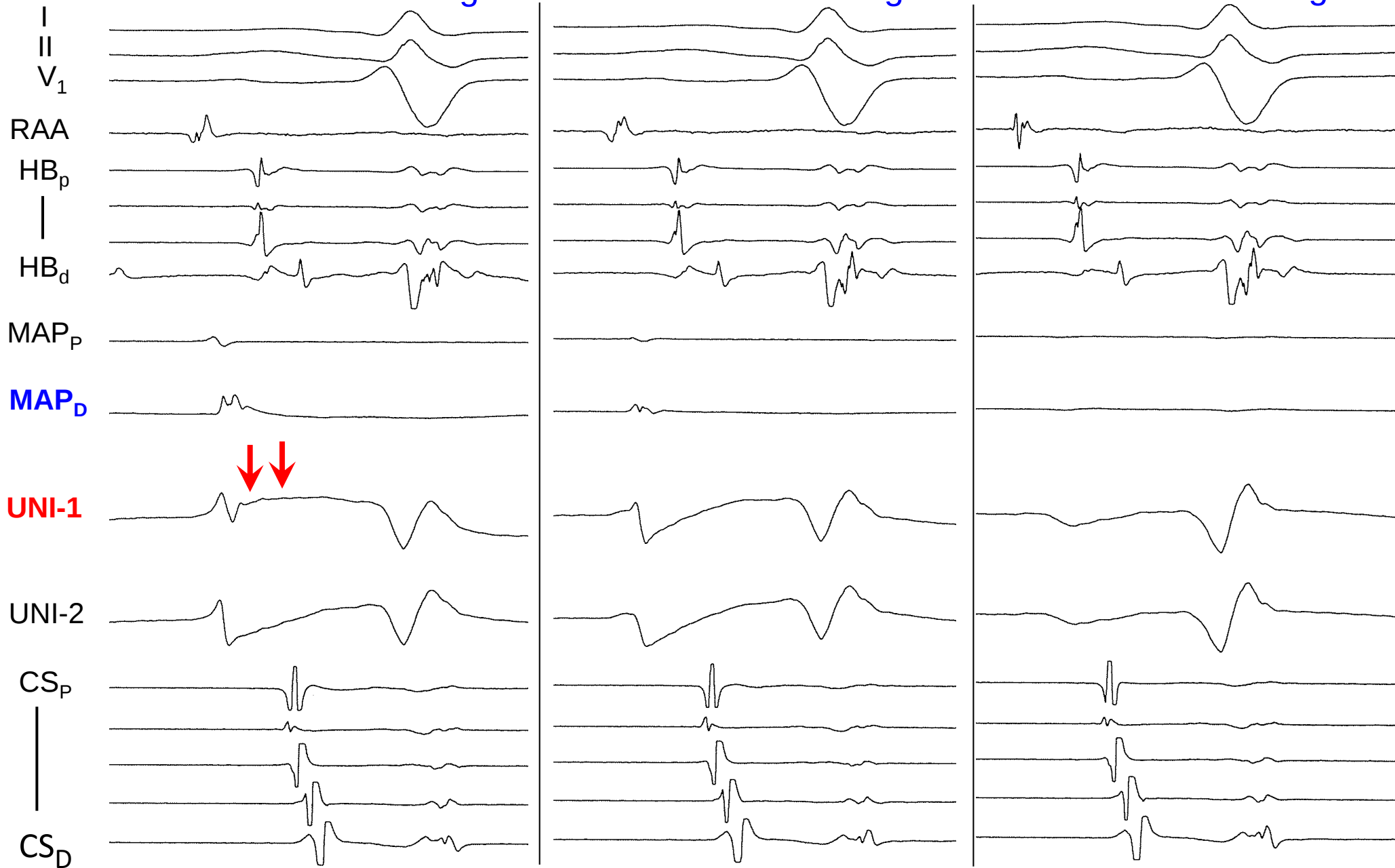


Figure 3.9C.

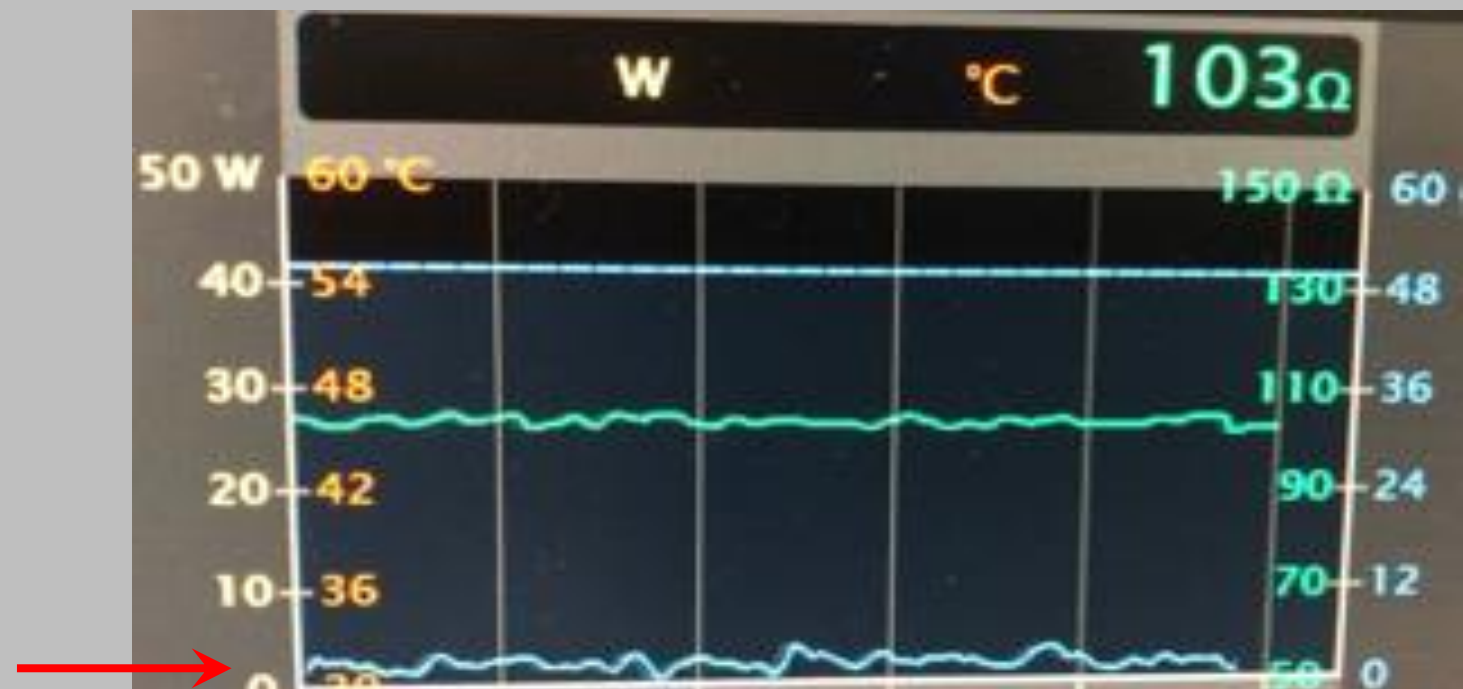


Figure 3.9D.

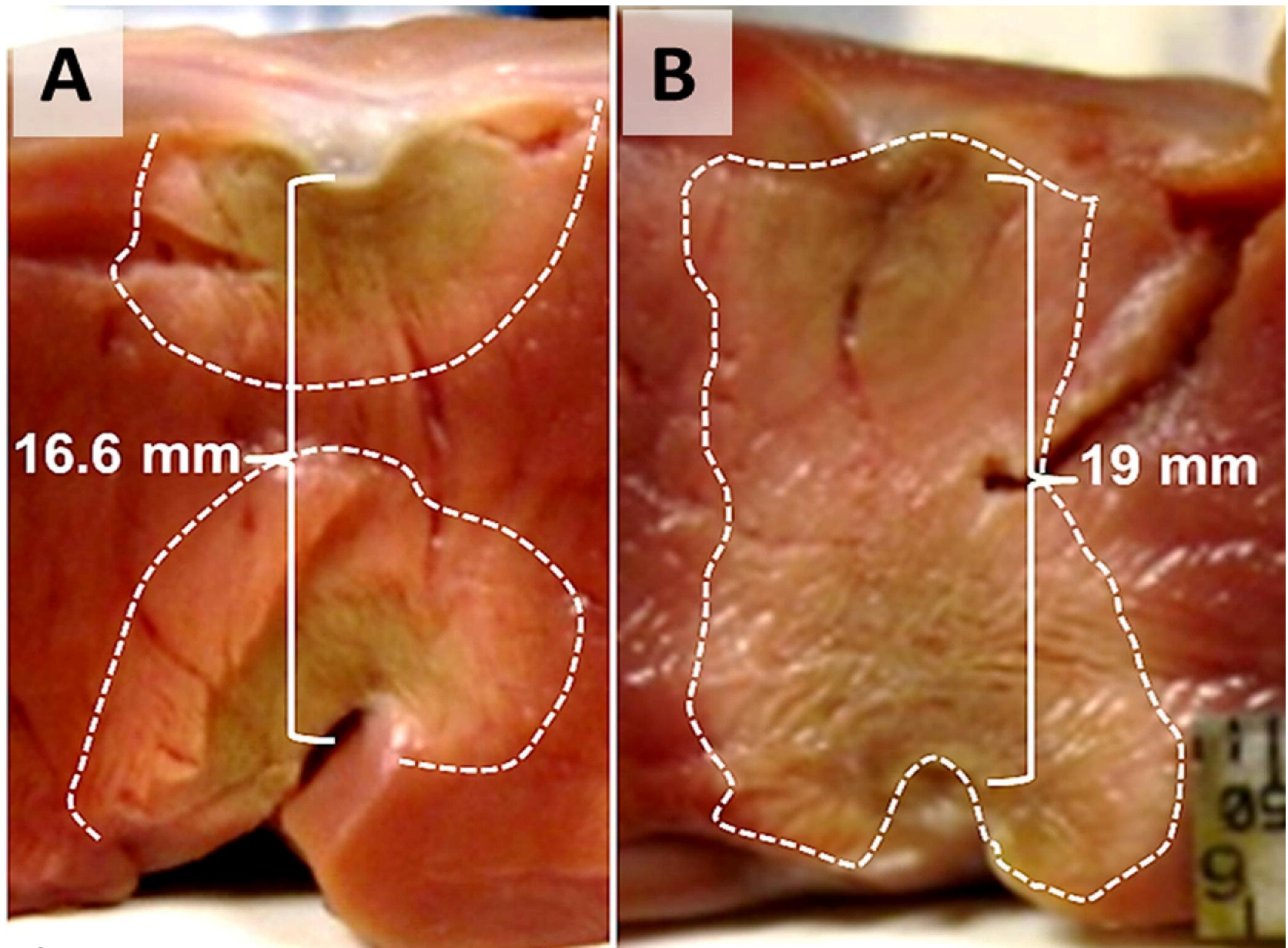


Figure 3.10.

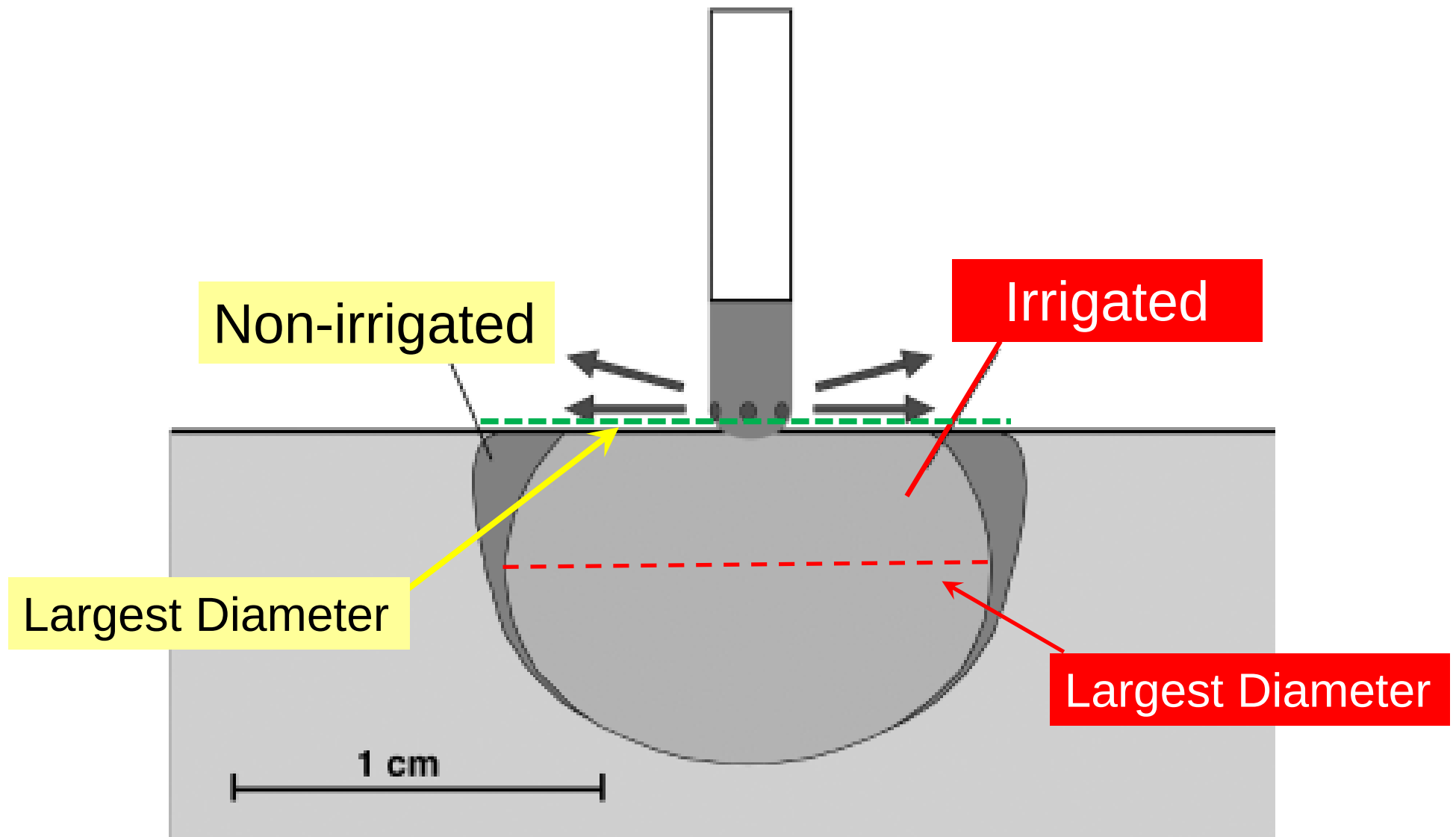
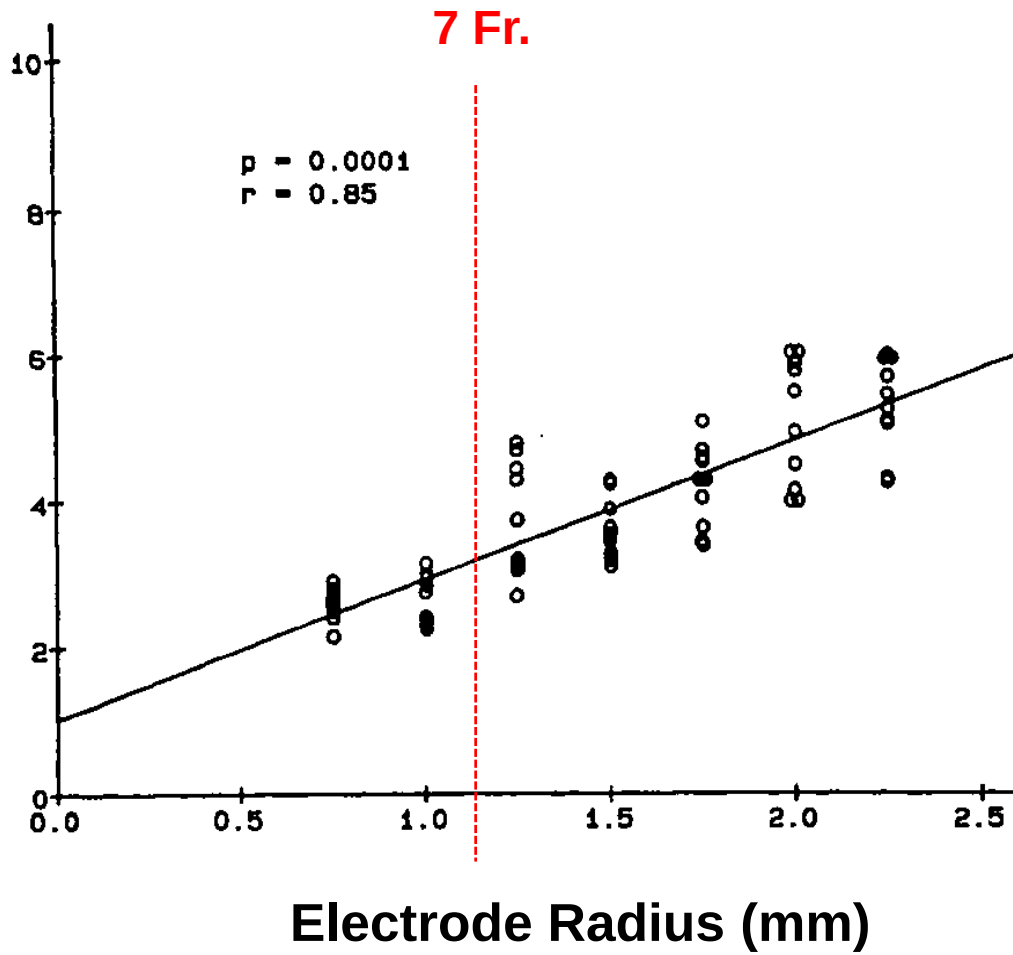


Figure 3.11.

Transverse Lesion Radius (mm)



Transmural Lesion Radius (mm)

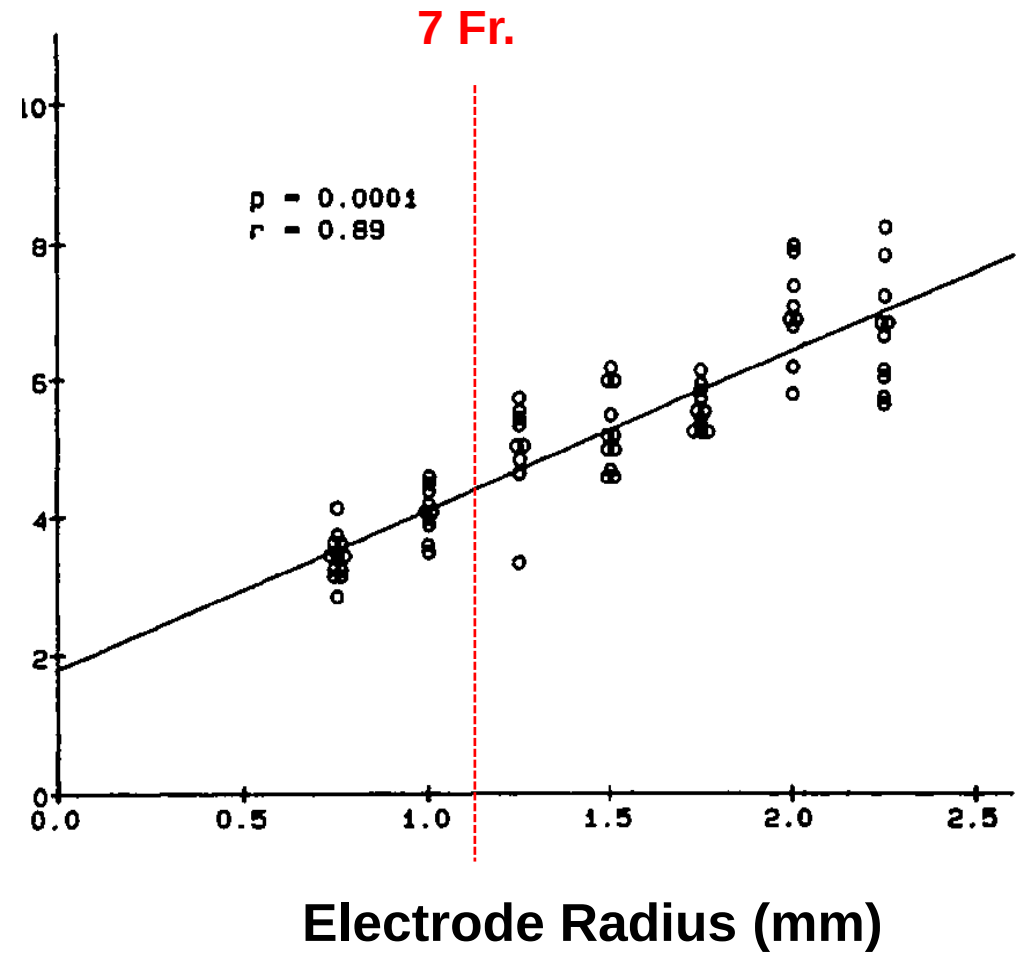


Figure 3.12A.

Power to maintain tissue-electrode interface temperature at 60°C

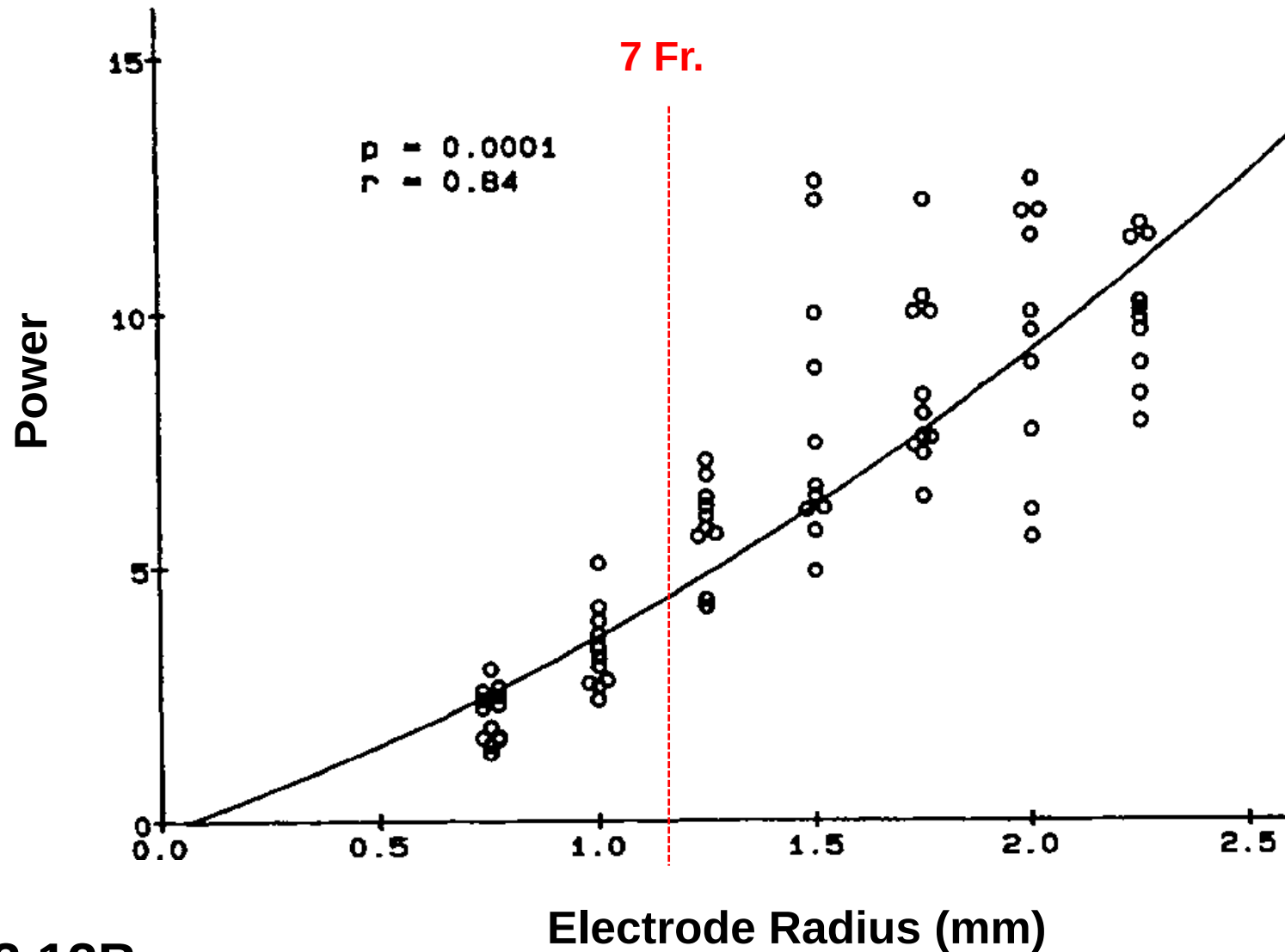


Figure 3.12B.

50 Watts Delivered

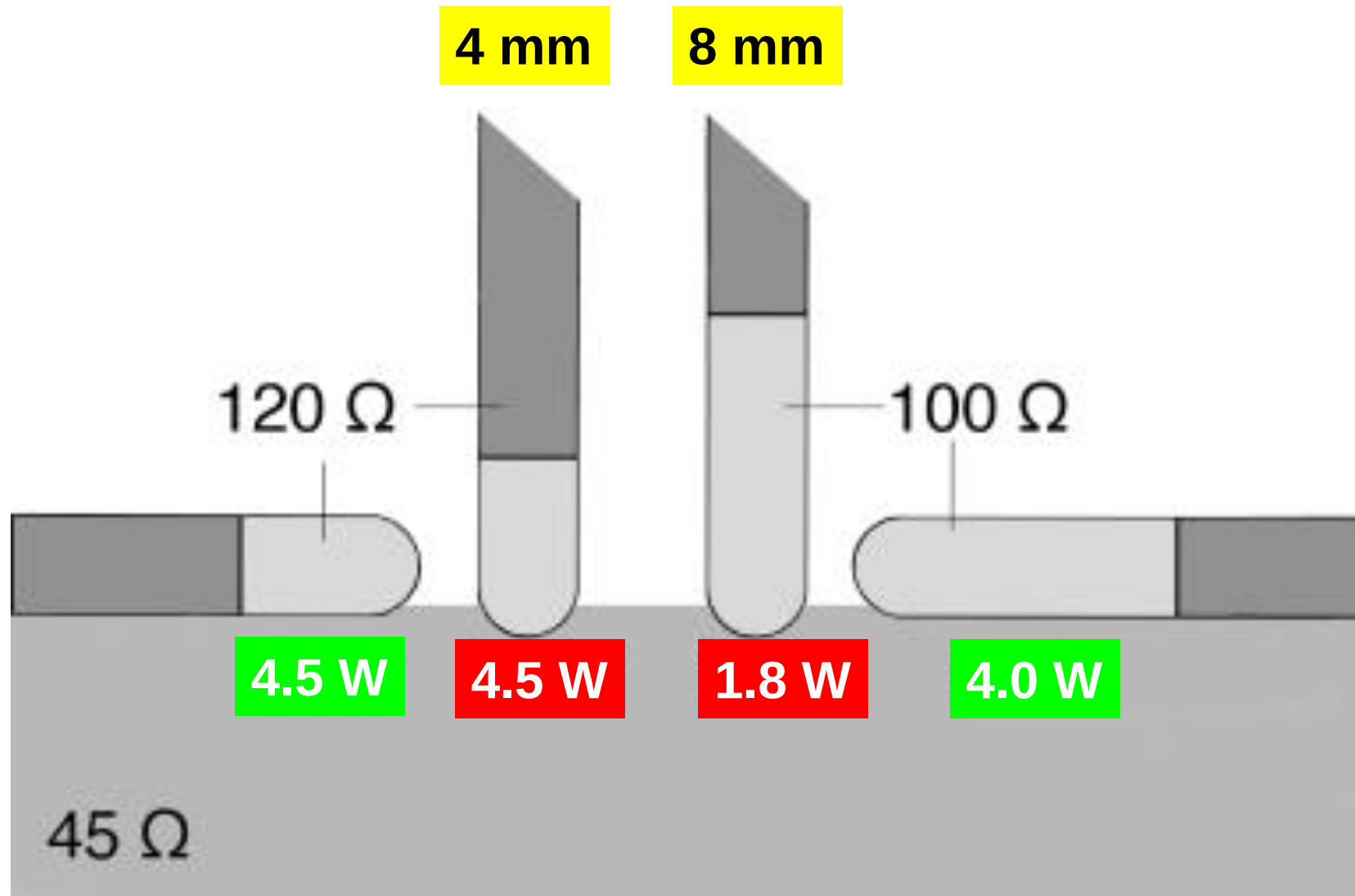


Figure 3.13A.

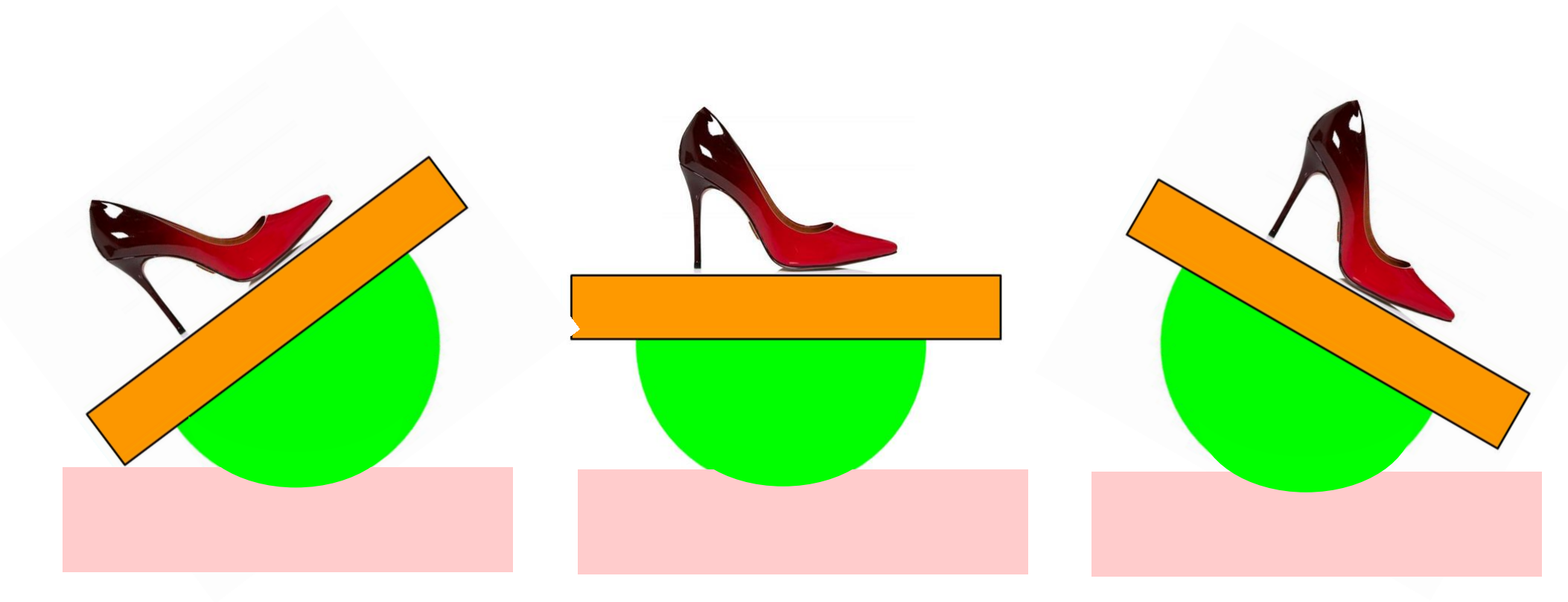
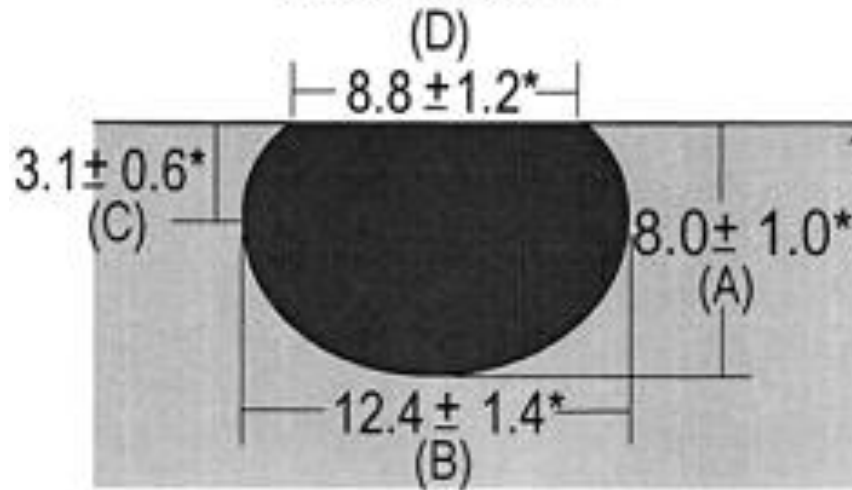


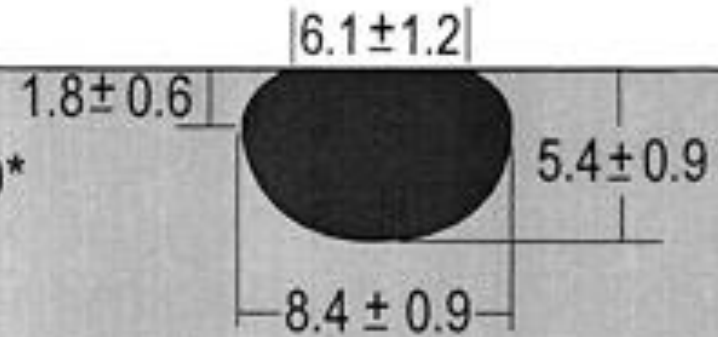
Figure 3.13B

Perpendicular Orientation

2 mm Electrode

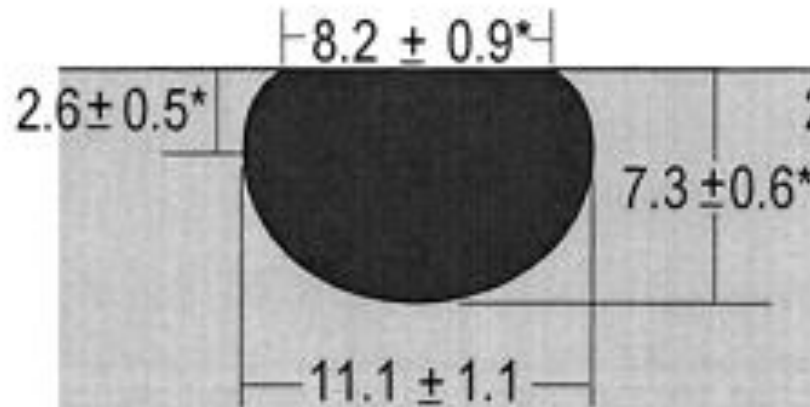


5 mm Electrode



Parallel Orientation

2 mm Electrode



5 mm Electrode

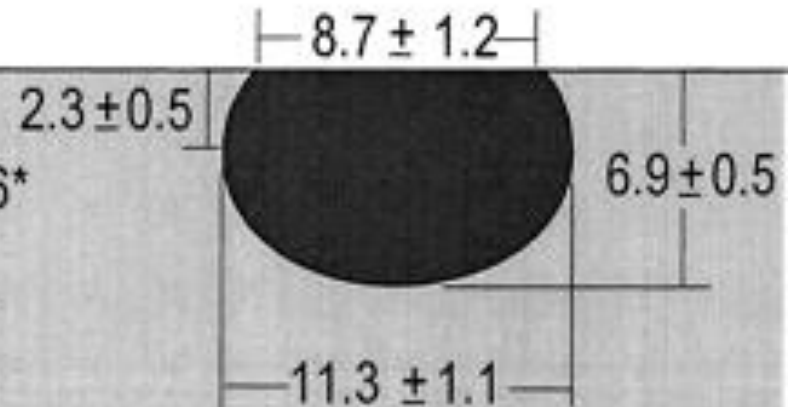


Figure 3.13C.