

Laser Photoablation Technique and Recommendations for Peripheral and Coronary Interventions

Technique Recommendations

These recommendations are specific to lesion type, morphology, and intravascular location.

Refer to the Instructions for Use manual for complete prescribing information.

The Five S's for Successful Laser Ablation

- ▶ **SELECTION** of patient
- ▶ **SIZE** of the laser catheter
- ▶ **SETTINGS** fluence and pulse rate
- ▶ **SALINE** infusion
- ▶ **SLOW** advancement

SELECTION of Patient

- Patients presenting with multiple morphology stenoses or occlusions comprised of plaque, atheromatous tissue, thrombus, calcium and neointimal hyperplasia.

SIZE of Laser Catheter

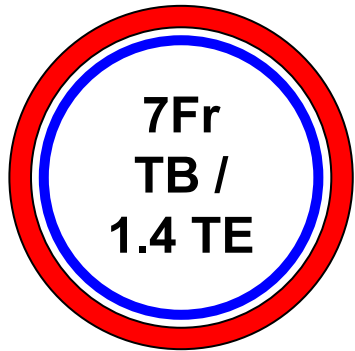
Catheter to vessel size ratio should not exceed 2:3

Catheter Size	Proximal Vessel Diameter
0.9mm	$\geq 1.4\text{mm}$
1.4mm	$\geq 2.1\text{mm}$
1.7mm	$\geq 2.6\text{mm}$
2.0mm	$\geq 3.0\text{mm}$
2.3mm	$\geq 3.5\text{mm}$
2.5mm	$\geq 3.8\text{mm}$

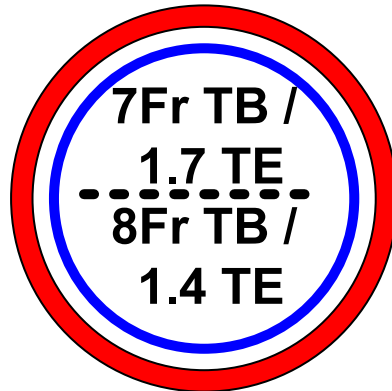
In situations where a conservative approach is desired, size laser catheter to approximately $\frac{1}{2}$ vessel size.

TURBO-Booster Vessel Sizing Guidelines

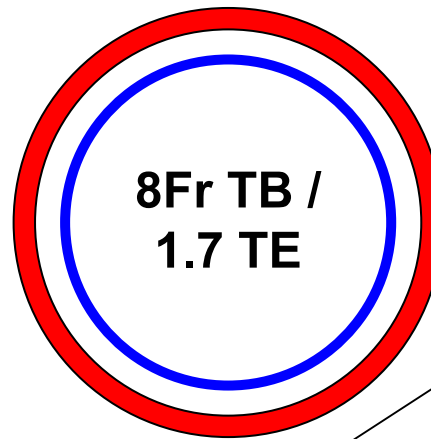
≥3.5mm



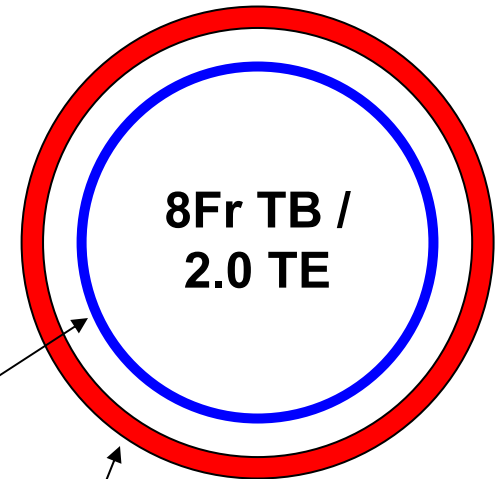
≥4.0mm



≥4.5mm



≥5.0mm

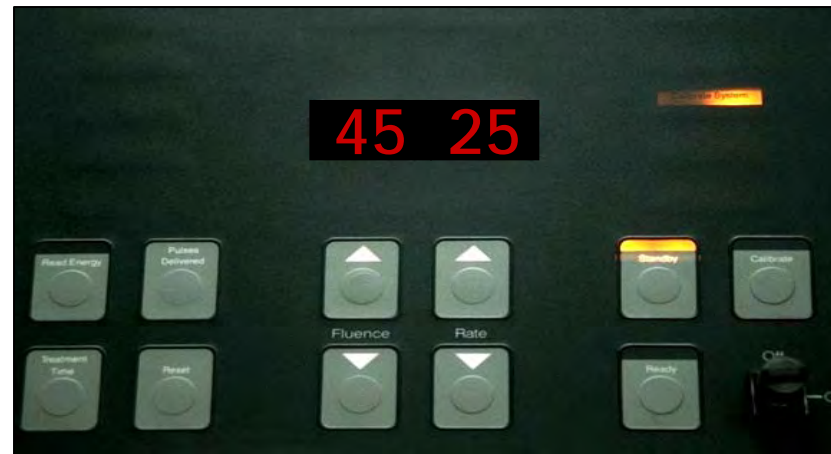


Crossing profile

Vessel

SETTINGS

The system calibrates at 45 Fluence/ 25 Hz.



Make first pass at 45/25 and increase to 45/60 with lesion resistance. If resistance still occurs, increase to maximum settings.

Maximum Settings Peripheral

Product Description and Size Peripheral OTW/RX	Maximum Settings	Maximum Timings
0.9 X80	80/80	Continuous On
Peripheral TURBO elite 1.4, 1.7, 2.0, 2.3mm	60/80	Continuous On
Peripheral TURBO elite 2.5mm	45/80	Continuous On

Maximum Settings Coronary

Product Description and Size Coronary RX	Maximum Settings	Maximum Timings
Coronary ELCA Vitesse 0.9mm	60/40	5 sec On 10 sec Off
Coronary ELCA Vitesse 0.9mm X80	80/80	10 sec on 5 sec off
Coronary ELCA Vitesse 1.4,1.7,2.0 Coronary ELCA Vitesse Eccentric 1.7E,2.0E	60/40	5 sec On 10 sec Off

SALINE Infusion

- It is very important to infuse saline through the guidewire lumen of the OTW catheters during laser ablation.

Refer to the Instructions for Use manual for complete prescribing information.

OTW Saline Infusion

- We recommend OTW laser catheters for peripheral laser ablation cases
- Always perform 10-20cc bolus saline infusion via the crossover sheath or guide catheter after contrast injections
- For all laser catheters, downsize guidewire to 0.014" to allow for infusion through guidewire lumen

OTW Saline Infusion

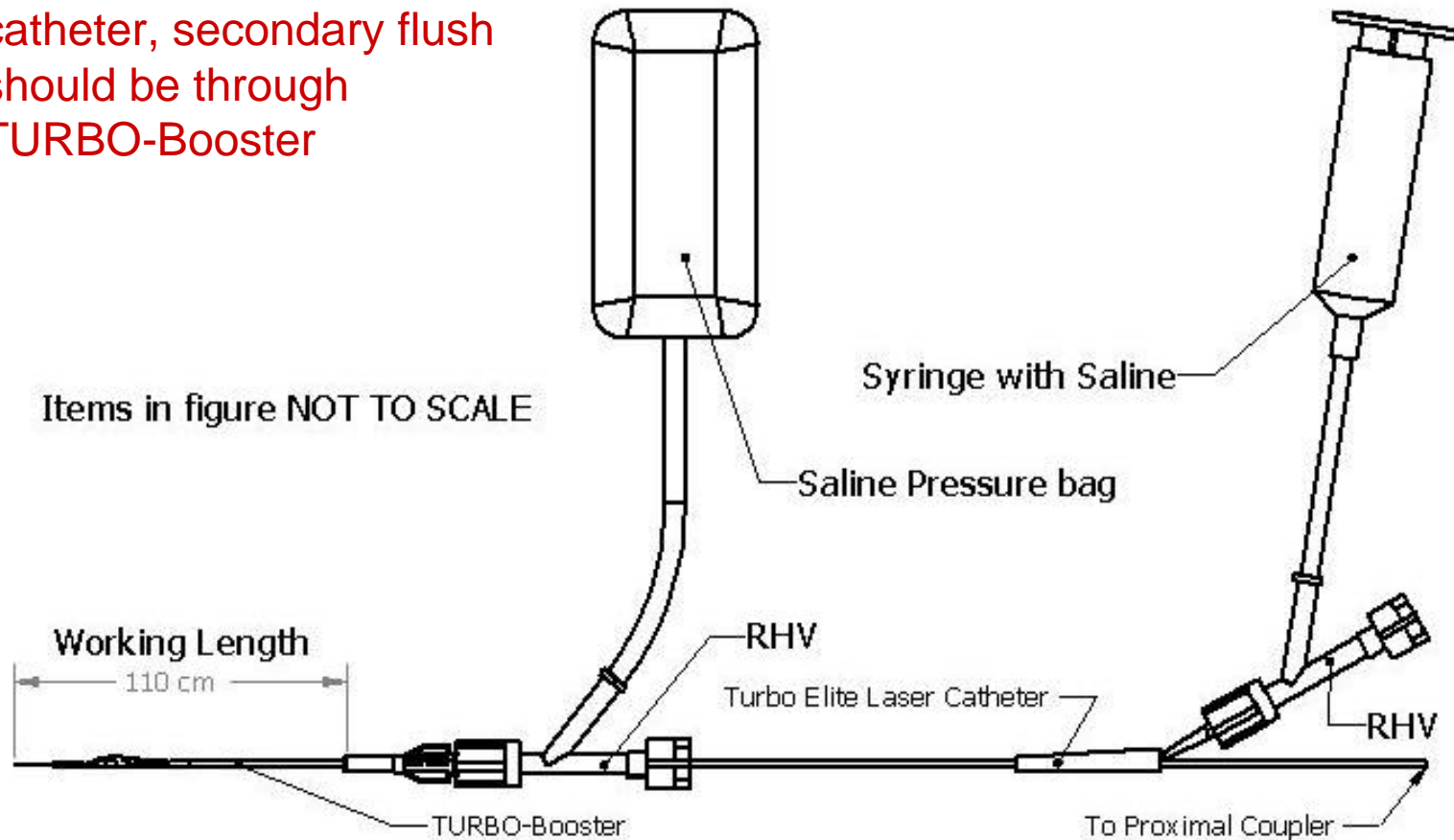
TURBO elite Peripheral Laser Ablation Catheter Model	Infusion Method through Guidewire Lumen
0.9, 1.4mm	Indeflator at 20-25 atm
1.7, 2.0, 2.3, 2.5mm	Use 10-20cc control syringes

RX Saline Infusion

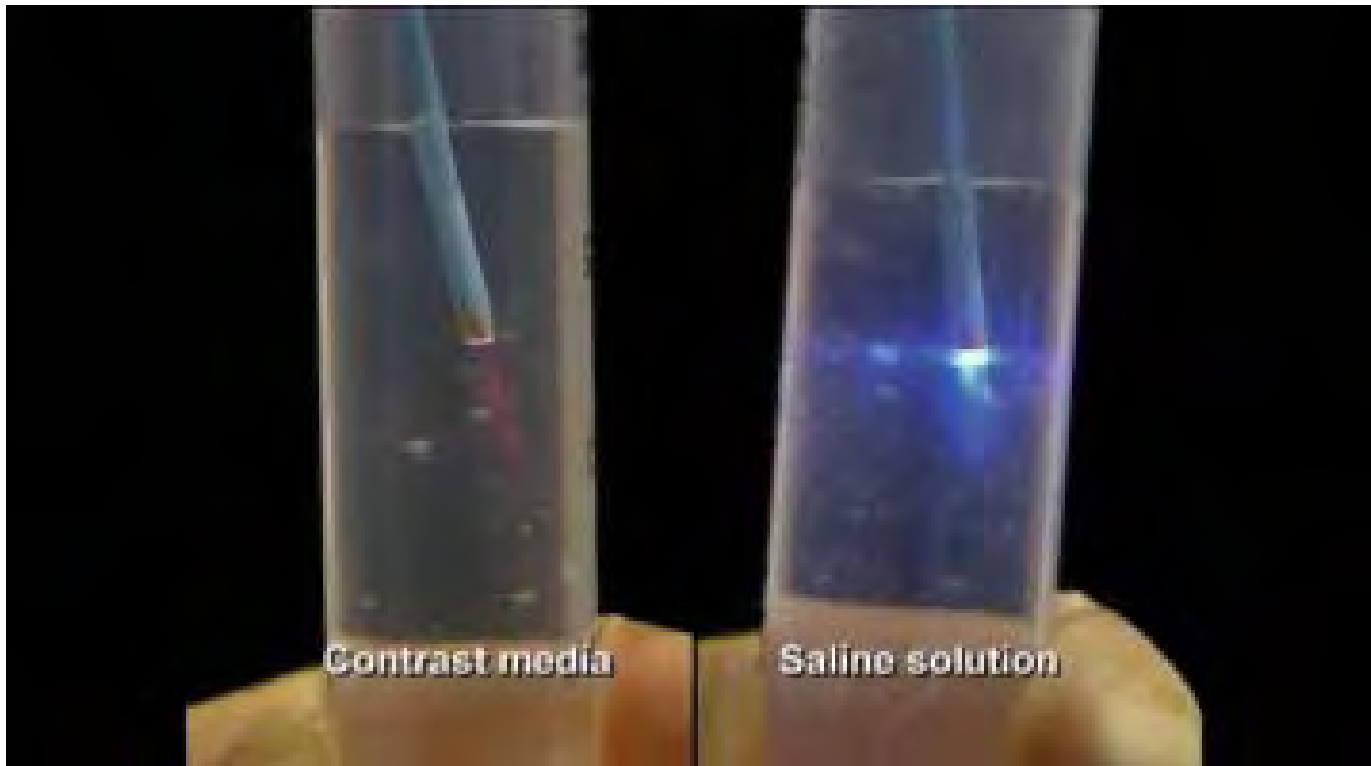
ELCA Vitesse & TURBO elite Rx Coronary and Peripheral Laser Ablation Catheter Model	Infusion Method through Guide Catheter or Cross Over Sheath
0.9, 1.4, 1.7 2.0mm	Use Guide Catheter or Cross Over Sheath 2 to 3cc per second
1.7, 2.0mm Eccentric	Use Guide Catheter or Cross Over Sheath 2 to 3cc per second

TURBO-Booster Saline Infusion

Primary flush site is laser catheter, secondary flush should be through TURBO-Booster



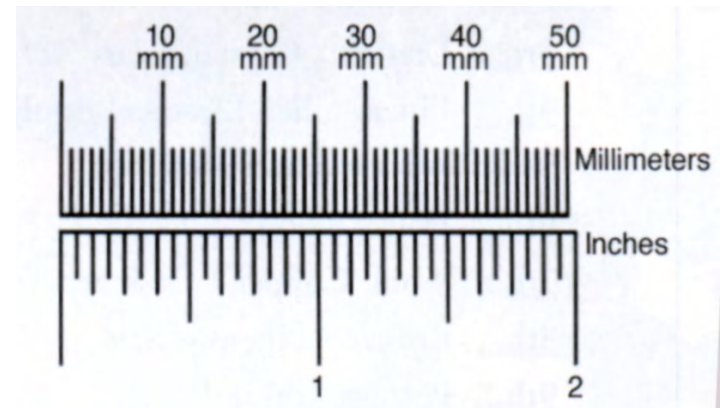
Laser activated in contrast vs. saline



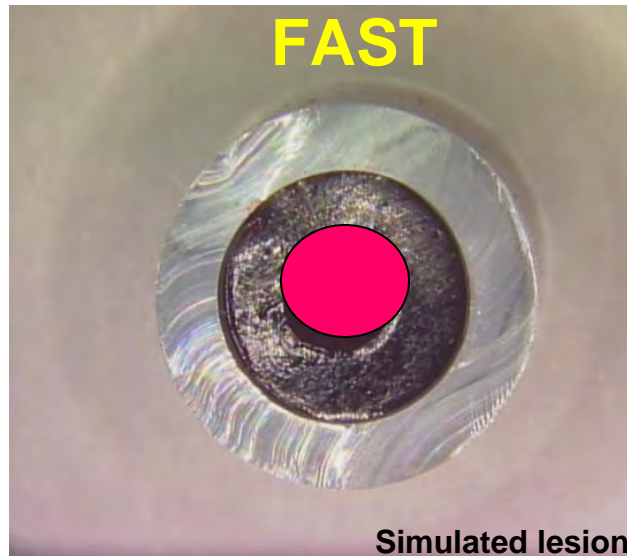
SLOW ADVANCEMENT

Advance the catheter at **<0.5 - 1mm per second** for optimal results.

6 cm lesion = 60 seconds =
minimum of 1 minute to cross

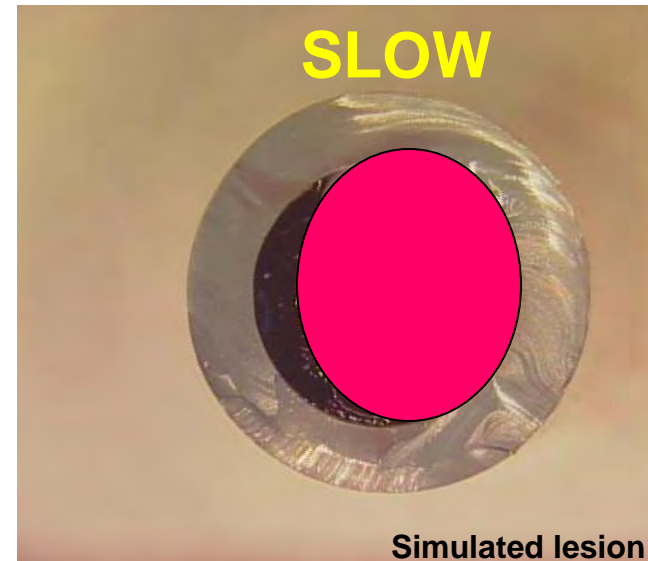


Slow Advancement is KEY!



Lumen diameter with
FAST ADVANCEMENT
(greater than 1 mm per
second).

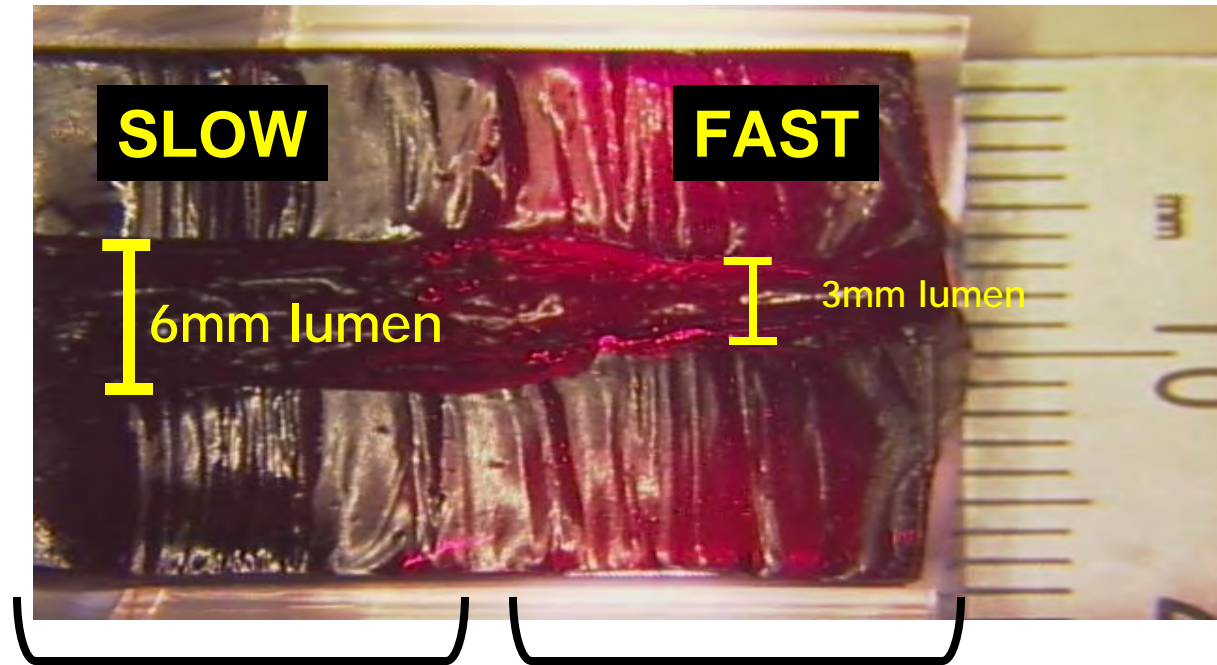
2.3 TURBO in 6mm tube



Lumen diameter with
SLOW ADVANCEMENT
(less than 1 mm per
second.)

2.3 TURBO in 6mm tube

Slow Advancement is KEY!



6mm lumen diameter with
SLOW ADVANCEMENT
(less than 1 mm per second)

3mm lumen diameter with
FAST ADVANCEMENT
(greater than 1 mm per second)

2.5 TURBO in 20mm lesion model

For more information visit
www.spectranetics.com