

sideKick™

**A New Concept & Device
for Bifurcation Stenting**

TCT Asia Seoul 2005

**Yaron Almagor, MD
Director Interventional Cardiology
*Shaare Zedek Medical Center***

Jerusalem

For investigational use only.

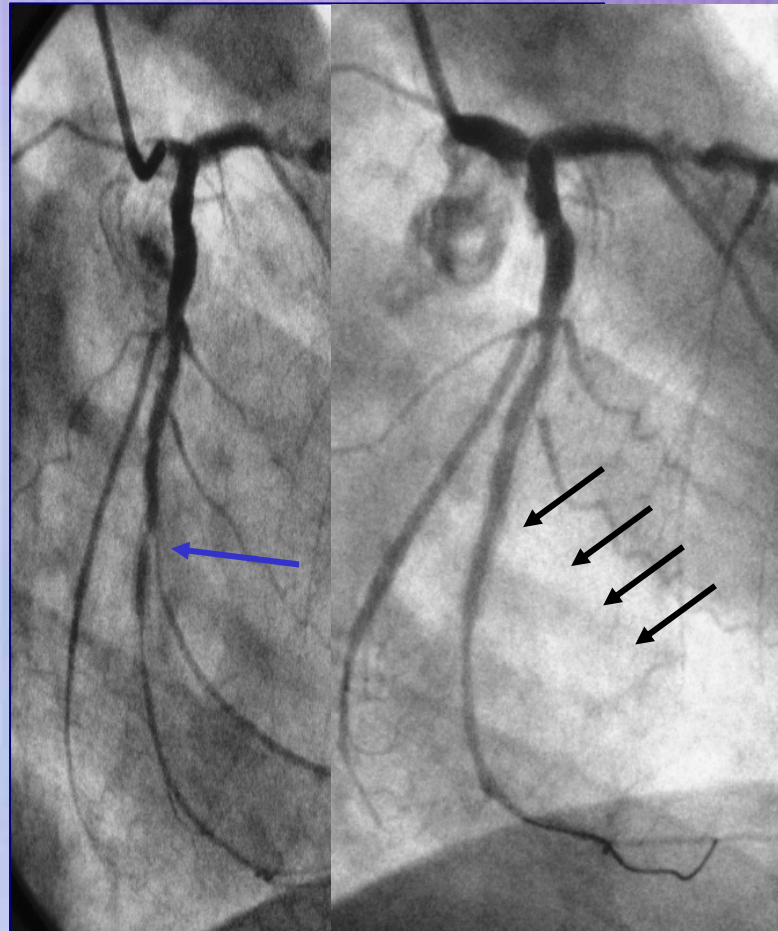
Clinical Issues

Bifurcation & Ostium PCI (up to-33% of all cases)

- True bifurcation
- Side branch protection during main branch stenting
- Accurate & precise ostial stent placement

Current Challenges

- Higher complication rate
- Short-term complications
 - Side branch occlusion
- Long –term complications
 - Higher Restenosis rate



Bifurcation Treatment Current Options

- Standard systems with personalized techniques (A...T, V, Y...Z) till **CRASH.....!!!!!!!**
- Un friendly specialized, dedicated, systems

Limitation of Standard approach with specialized technique

- Poor side branch accessibility**
- Technically challenging –re wire, crossing stents**
- Stent orientation**
- Metallic neocarina**
- Stent malapposition**
- Technically challenging accurate ostial positioning**

Limitations of Current Dedicated Bifurcation Treatment Systems

- Large, bulky devices
- Non-steerable
- Dual operator systems
- Wire twisting
- Inaccurate stent orientation/placement

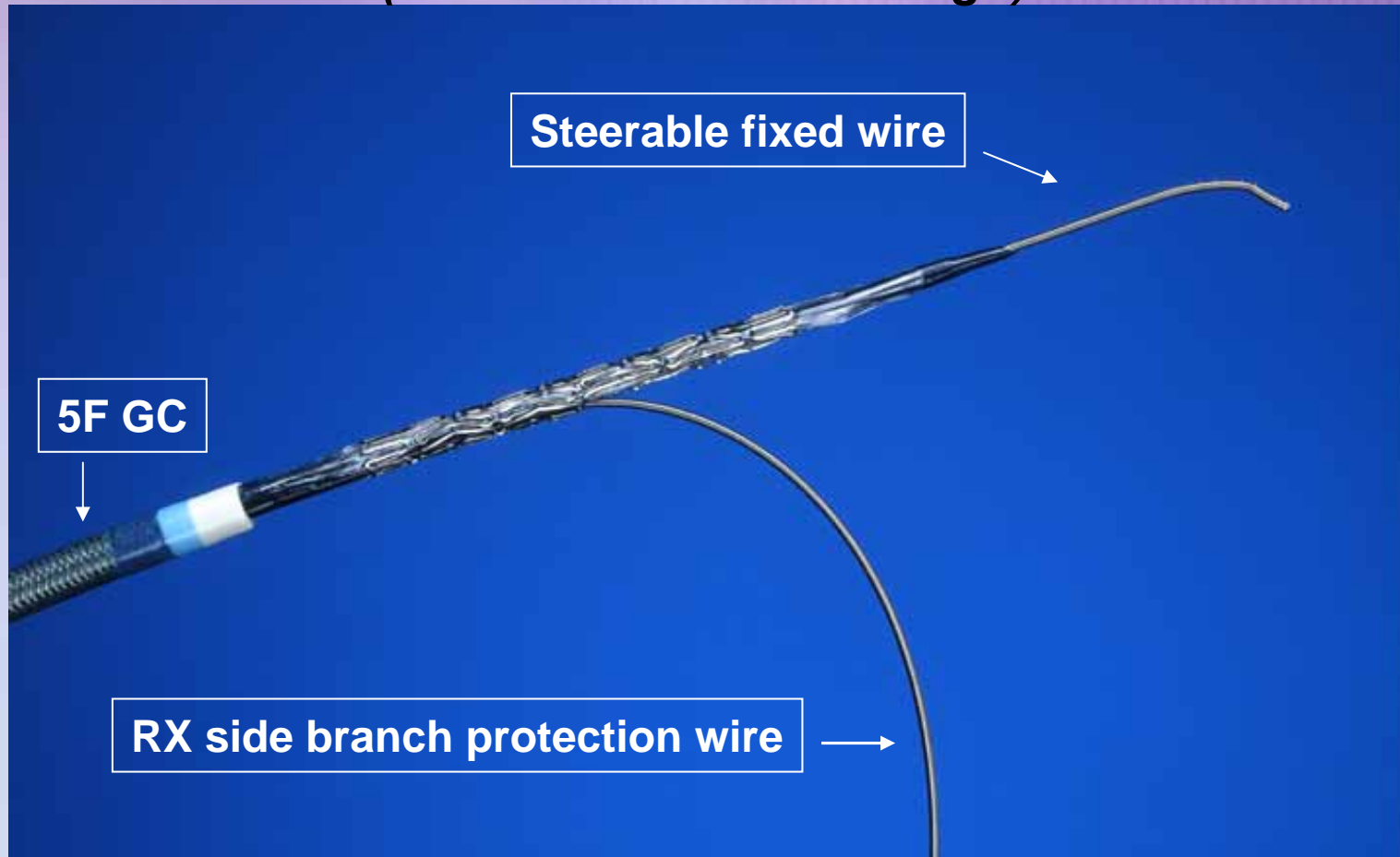
What am I Looking For ?

- Small sleek device of minimal profile
- Simplicity of use
 - Preferably a single wire technique
- Torquability of the device
 - Allowing side branch orientation for stent positioning axially and radially as well as wire accessibility if necessary
- Maintenance of side branch access post stent deployment

sideKick™

Side Branch Protection System

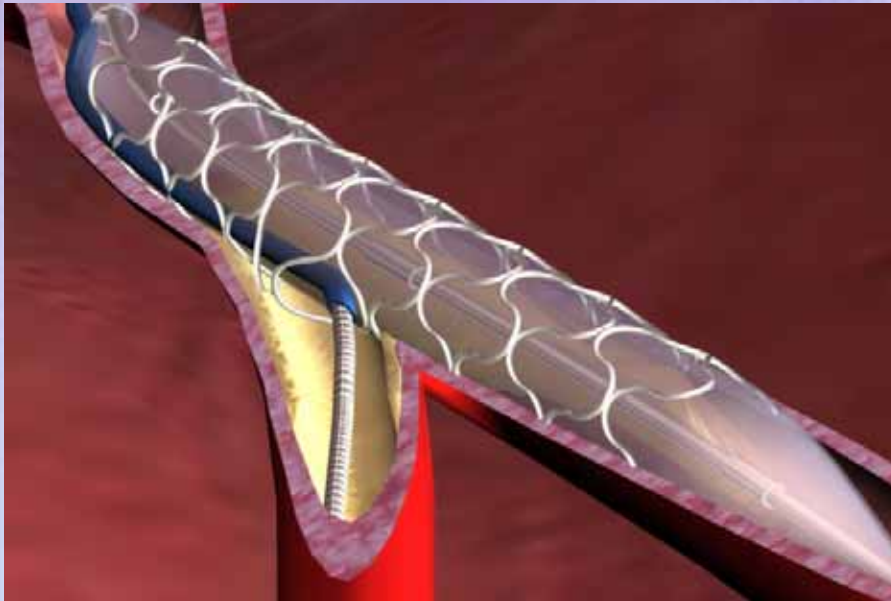
(Mid Stent Exit Port Design)



For investigational use only.

sideKick™

Side Branch Protection System Design



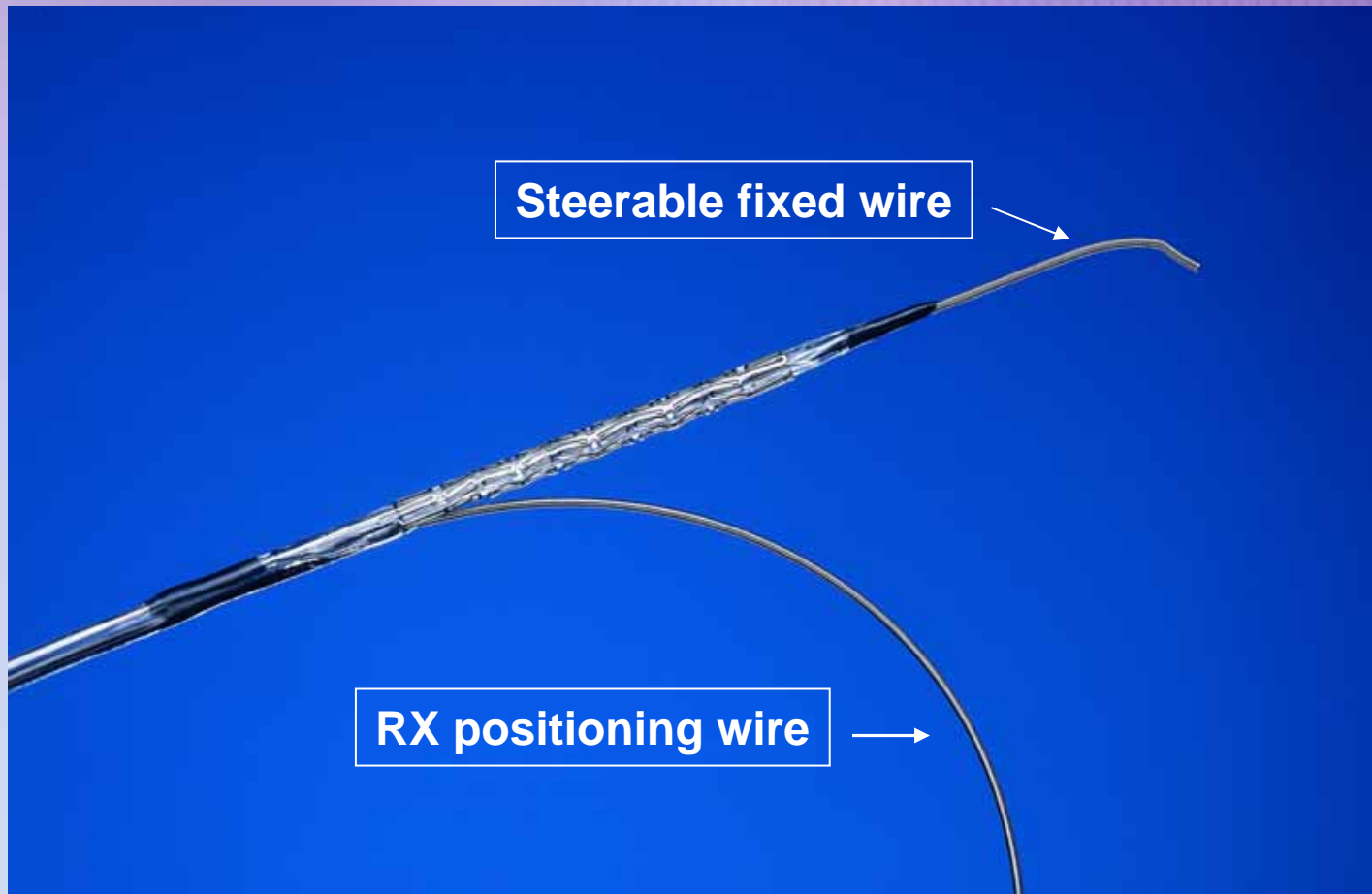
- **Low profile**
- **5F guide compatible**
- **Easy to torque**
- **Versatile**

For investigational use only.

sideKick™

Side Branch Protection System

(Proximal Exit Port)



For investigational use only.

sideKick™

Side Branch Protection System

Mid exit port Model



For investigational use only.

sideKick™

Stent Cell/Side Hole Orientation

Wrong side



For investigational use only.

sideKick™

Stent Cell/Side Hole Orientation

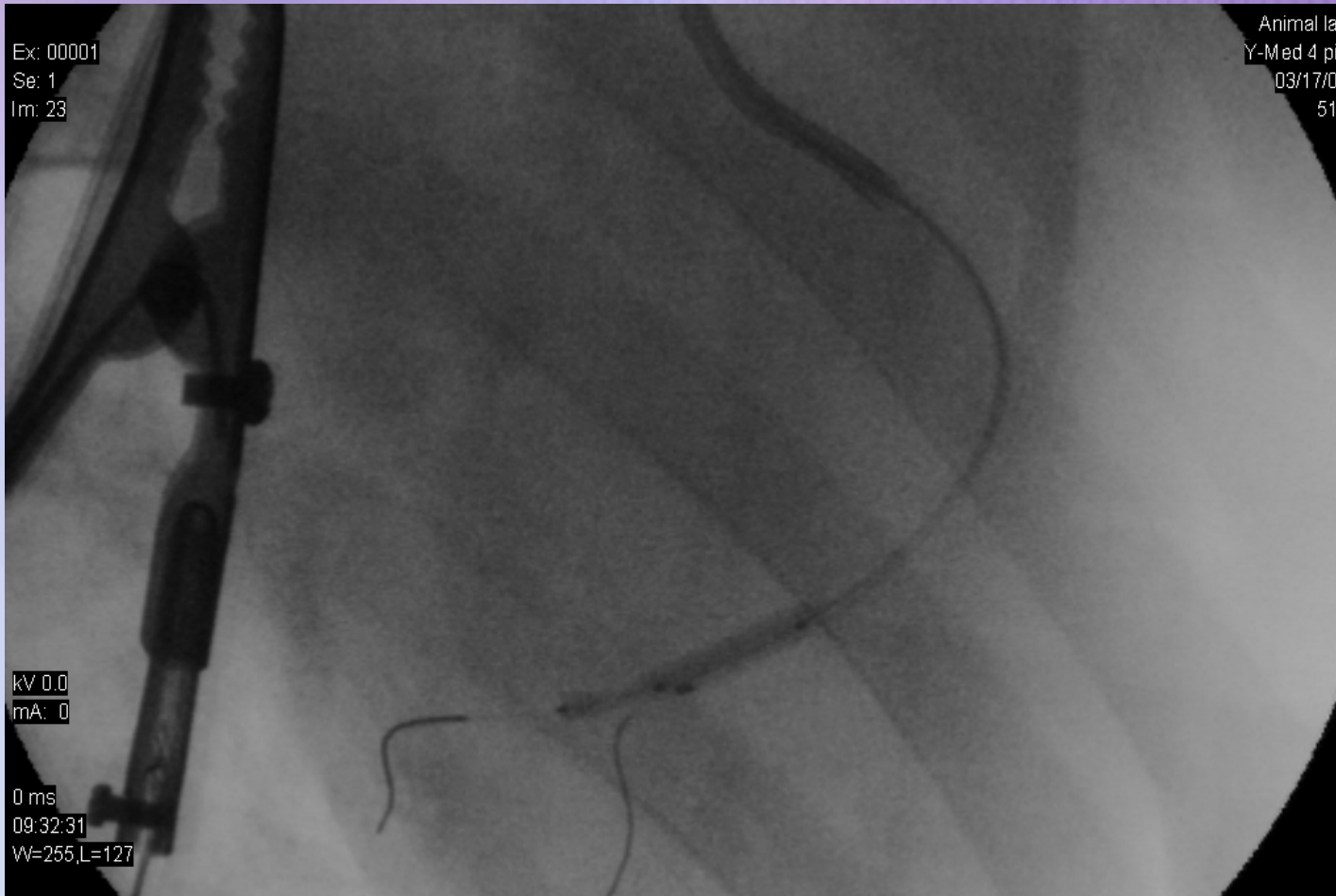
Correct side



For investigational use only.

sideKick™

Stent Cell/Side Hole Orientation Inflation and markers alignment to Ostium



For investigational use only.

sideKick™

Stent Cell/Side Hole Orientation Post Deployment



For investigational use only.

side**Kick**[™]

Side Branch Protection System

Proximal wire Exit Port



For investigational use only.

side**Kick**[™]

Side Branch Protection System

CONCLUSIONS

- **Significant advance in side branch protection**
- **Low profile**
- **Operator friendly**
- **Torquable system**
- **Accurate ostial stent implantation**

For investigational use only.