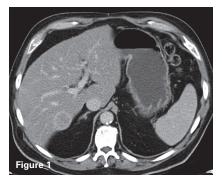


CASE STUDY

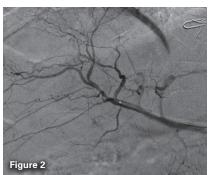
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Preablative Embolization for Solitary HCC

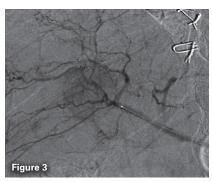
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A 79-year-old man with a history of a solitary hepatocellular carcinoma (HCC) in segment 6 presented to the interventional radiology department for hepatic angiography and preablative embolization (Figure 1).



After using standard techniques to access the right common femoral artery, a 5 F sheath was placed. Subsequently, a selective 4 F reverse-curve catheter and a hydrophilic guidewire were used to cannulate the celiac artery. There was difficulty advancing the 4 F catheter over the wire and into the common hepatic artery, so it was decided to park the selective catheter at the celiac artery origin and use a microcatheter from there. A 0.027 inch Renegade HI-FLO Microcatheter and a Fathom 16 Steerable Guidewire were used to cannulate the right hepatic artery (Figure 2).



The higher flow rates that Direxion provides completely changed this patient's management. ??



The angiogram (contrast injector set for flow rate of 4 mL/s for total volume of 8 mL at pressure of 800 psi) showed the tumor, but there were other areas in question.

The microcatheter was exchanged for a 0.027 inch Direxion HI FLO Torqueable Microcatheter, and a repeat angiogram showed innumerable smaller tumors as well. (Figure 3).

An intraprocedural decision was made to forego embolization and administer macroaggregated albumin to prepare for yttrium 90 treatment. **The higher flow rates and pounds per square inch that the Direxion Microcatheter provides completely changed this patient's management.** Had he gone on to ablation, only one of his tumors would have been addressed. By changing his treatment to yttrium 90, all of his tumors were treated, and most had a near-complete treatment response (Figure 4).



DIREXION[™] Torqueable Microcatheter

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*1200 psi = 8,274 kPa

DIREXION™ DIREXION HI-FLO™

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. Rx only. Prior to use, please see the complete "Directions for Use" for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, an Operator's Instructions.

INTENDED USE/INDICATIONS FOR USE: The Direxion and Direxion HI-FLO Torqueable Microcatheters are intended for peripheral vascular use. The pre-loaded Fathorn and Transend Guidewires can be used to selectively introduce and position the microcatheter in the peripheral vascularure. The microcatheter can be used for controlled and selective infusion of diagnostic, embolic, or therapeutic materials into the vessel. CONTRAINDICATIONS: None known. WARNINGS: Never advance or withdraw an intravascular device against resistance until the cause of resistance is determined by fluoroscopy. Movement of the microcatheter or guidewire against resistance may result in damage or separation of the microcatheter or guidewire tip, or vessel perforation.

This Direxion Microcatheter family is not intended for use in the coronary vasculature or neurovasculature. The Direxion HI-FLO Microcatheter is not designed for the delivery of embolic coils. Use of excessive force to manipulate the microcatheter is not designed for the delivery of embolic coils.

by physicians thoroughly trained in percutaneous, intravascular techniques and procedures. • Do not introduce the microcatheter without guidewire support as this may cause damage to the proximal shaft of the catheter. • Because the microcatheter has not been advanced into narrow sub-selective vasculature, repeatedly assure that the microcatheter has not been advanced so far as to interfere with its removal. ADVERSE EVENTS: The Adverse Events include, but are not limited to: • Allergic reaction • Embolism • Hemorrhage/Hematoma • Infection • Pseudoaneurysm • Stroke • Vascular thrombosis • Vessel occlusion • Vessel spasm • Vessel trauma (dissection, perforation, rupture) REV AB

Indications, contraindications, warnings and instructions for use can be found in the product labeling supplied with each device. Information for the use only in countries with applicable health authority product registrations. This material is not intended for use or distribution in France.

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