The Sniper is compatible with conventional diagnostic catheters, guidewires, and embolic agents allowing physicians to experience the Sniper’s high performance with no additional accessories.

**INDICATIONS FOR USE**

Sniper balloon occlusion microcatheter is intended for use in the blood vessels of the peripheral vasculature where temporary occlusion is desired and offers a vessel selective technique of temporary vascular occlusion for selectively stopping or controlling blood flow. The Sniper balloon occlusion microcatheter is also intended to assist in the delivery of diagnostic agents such as contrast media and therapeutic agents into the peripheral vasculature.

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**Designed for arterial embolization procedures such as:**

- Transarterial Embolization (TAE)
- Transarterial Chemoembolization (TACE)
- Radioembolization (Y-90)
- Arteriovenous Malformation (AVM)
- Prostate Artery Embolization (PAE)
- Gastrointestinal Bleeds
- Renal Angiomyolipoma (AML)
- Uterine Fibroid Embolization (UFE)

**Compatible with the delivery of:**

- Lipiodol®
- Glue (n-bCA)
- Coils up to 0.018"
- Gelfoam
- Spherical particles up to 900 µm
- Dimethyl Sulfoxide (DMSO)
- Ethanol (EtOH)

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Liver Parenchyma (~60 mmHg)

These examples are based on liver tumors, but this therapy may be applied to other organs and tumor locations.

Tumor (~25 mmHg)

Flow redirected towards tumor

Occluded Supply Artery (~60 mmHg)

Sniper Supply Artery (~100 mmHg)

Low pressure causes flow redistribution towards the lowest pressure zone (tumor) at a low flow rate allowing for complete tumor fill.

Low Pressure Delivery
(Subselective or Lobar Tip)

High pressure forces the flow into the tumor causing the tumor to fill completely and overflow into the portal vein without reflux.

High Pressure Delivery
(Superselective or Segmental Tip)

Conventional vs. Balloon Occluded Transcatheter Arterial Chemoembolization (TACE)*

(Two studies totaling 142 patients)3,4

*Data is based on literature search of known balloon occlusion microcatheters to date.

(Meta-analysis of three studies totaling 221 patients)5,6,7,8 (One study with 62 patients)7

Clinical Summary

Conventional vs. Balloon Occluded Transcatheter Arterial Chemoembolization (TACE)*.

Lipiodol® Filling

Increases Lipiodol filling

2-6X

Complete Tumor Response

Increases complete tumor response by

41%

Survival

Increases 5-year survival by

53%

* Data on File.

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The Sniper's balloon occludes the vessel to alter blood flow-dynamics using pressure-directed embolization. This increases therapeutic agent delivery into target areas while protecting surrounding healthy tissue.1,2

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**Sniper Product Family**

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