



## Temporary Occlusion Balloon Catheter

*Microballoon Interventions: a technical revolution in transarterial embolization.*

*Expected benefits from MicroBalloon Embolization (MBE) with Occlusafe are greater\* tumor or radiological response,<sup>1</sup> improved\* clinical outcome,<sup>2,3</sup> better\* diagnosis thanks to more visibility<sup>4</sup> and full protection against reflux.<sup>5</sup>*

### Product Characteristics

#### Flow redistribution

*Through Pressure Gradient Effect, Occlusafe offers the ability to redistribute blood flow and access the microvascular circulation, leading to an increased accumulation of therapeutics into the target lesion with minimal off-target embolization.*

#### Access to microvascular circulation

*Balloon occlusion with Occlusafe allows a better visualization for improved\* diagnosis and higher\* uptake of embolic into the target lesion.*

#### Excellence in navigability

*Terumo excellence in lesion access technology allows for precision and accuracy in navigation through complex vessel anatomies.*

1 Hriotaka Arai: *Hepatology Research* (2015): Safety and efficacy of balloon-occluded transcatheter arterial chemoembolization using miriplatin for hepatocellular

2 Takayasu K, Muramatsu Y, Maeda T, Iwata R, Furukawa H, Muramatsu Y, Moriyama N, Okusaka T, Okada S, Ueno H. Targeted transarterial oily chemoembolization for small foci of hepatocellular carcinoma using a unified helical CT and angiography system: analysis of factors affecting local recurrence and survival rates. *AJR Am J Roentgenol* 2001; 176: 681-688 [PMID: 11222205 DOI: 10.2214/ajr.176.3.1760681]

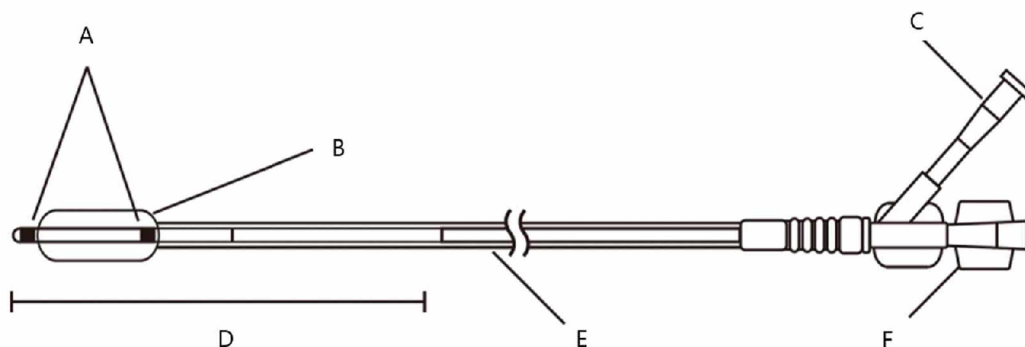
3 Hatanaka T, Arai H, Shibasaki M, Tojima H, Takizawa D, Toyoda M, Takayama H, Abe T, Sato K, Kakizaki S, Yamada M. Factors predicting overall response and overall survival in hepatocellular carcinoma patients undergoing balloon-occluded transcatheter arterial chemoembolization: A retrospective cohort study. *Hepato Res* 2018; 48: 165-175 [PMID: 28500686 DOI: 10.1111/hepr.12912]

4 Irie Toshiyuki (2013): Dense accumulation of lipiodol emulsion in hepatocellular carcinoma nodule during selective balloon-occluded transarterial chemoembolization: measurement of balloon occlude arterial stump pressure. *Cardiovasc Intervent Radiol*. DOI: 10.1001/s00270-012-0476-z

5 Data on files. Reference OS-003. Terumo Europe NV.

6 Terumitsu Hasebe; *Minimally Invasive Therapy & Allied Technologies*. 2015 Apr;24(2):94-100. doi: 10.3109/13645706.2014.951657. Epub 2014 Sep 29. PubMed.

\* vs. standard micro catheter



A Radiopaque marker band  
B Balloon  
C Balloon inflation port  
D Hydrophilic coating  
E Catheter

F Hub

### General specifications

<b>Outer Diameter - Distal</b>	0.9 mm / 2.7 Fr
<b>Outer Diameter - Proximal</b>	0.94 mm / 2.8 Fr
<b>Volume (except IPV)</b>	0.10 ml
<b>Maximum Volume (except IPV)</b>	0.20 ml

### *Item specifications*

<b>Length</b>	<b>IPV (Inflation Prime Volume)</b>	<b>Code</b>
110 cm	0.34 ml	OB*T41140N
130 cm	0.36 ml	OB*T41340N
150 cm	0.38 ml	OB*T41540N