

DC Bead® is an embolic Drug-Eluting Bead capable of loading and releasing chemotherapeutic agents in a controlled manner.

DC Bead is CE-Mark approved for loading with doxorubicin (DEBDOX[™]) and irinotecan (DEBIRI[™])



DEBDOX(Drug-Eluting Bead doxorubicin)

DC Bead is intended to be loaded with doxorubicin for the purpose of:

- Embolisation of vessels supplying malignant hypervascularised tumour(s)
- Delivery of a local, controlled, sustained dose of doxorubicin to the tumour(s)

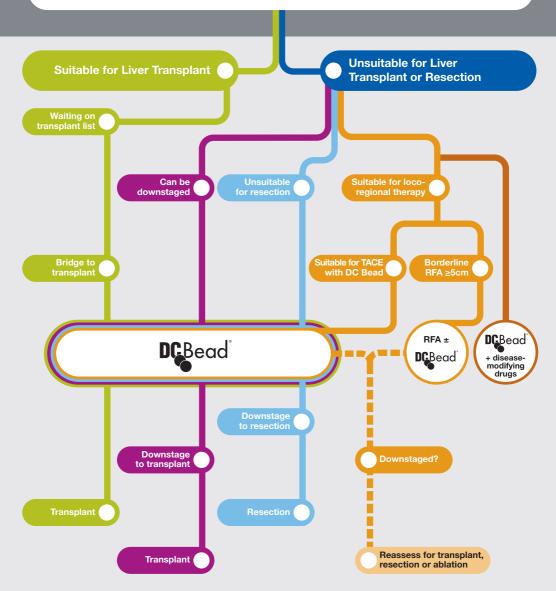


DEBIRI(Drug-Eluting Bead irinotecan)

DC Bead is intended to be loaded with irinotecan for the purpose of:

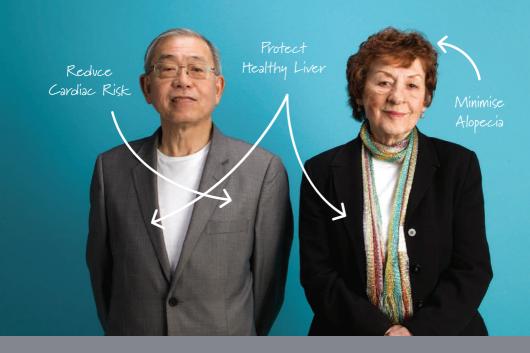
- Embolisation of vessels supplying malignant colorectal cancer metastasised to the liver (mCRC)
- Eluting a local, controlled, sustained dose of irinotecan to hepatic metastases of colorectal cancer

Biocompatibles' Hepatocellular Carcinoma Clinical Programme



The DC Bead® clinical programme targets treatment of a wide range of HCC patients by using the products alone and in combination with surgery and other treatment modalities





Protect your patients. Improve response.

Patients with HCC receiving PRECISION TACE™ with DC Bead®, experience less toxicity with improved response, compared to those receiving conventional chemoembolisation^{1,2,3,4}

Results from the PRECISION V clinical trial

✓ Reduce Cardiac Risk

DC Bead patients had maintained or improved cardiac function compared to those receiving conventional chemoembolisation.1

✓ Improve Response

DC Bead patients with more advanced disease showed a significant improvement in response (p<0.05) without a compromise in safety.1

Protect Healthy Liver

DC Bead patients experienced significantly less elevation of liver enzymes (p<0.01) after each of three treatments.1

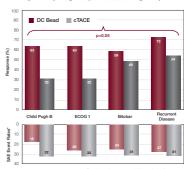
Minimise Alopecia

DC Bead patients benefit from a highly significant (p<0.001) reduction in doxorubicin related SAEs.1

DC Bead, minimise the toxicity of TACE, for your patients and you

Response and Adverse Events - Advanced Disease PRECISION TACE vs Conventional TACE¹

Objective Response (p=0.038) and Disease Control (p=0.026)

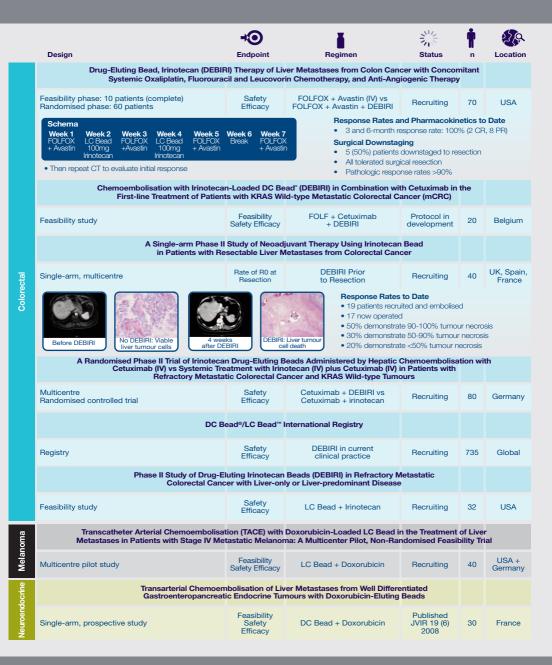


*Per 100 patients, event within 30 days of tre

Graph adapted from: Lammer J et al. Cardiovasc Intervent Radiol 33 (2010): 41-52

- References
 1. Lammer J, Malagari K, Vogl T et al.
 Cardiovasc Intervent Radiol 33 (2010): 41-52
- Varela M, Real MI, Burrel M et al. Journal of Hepatology 46 (2007): 474-481
- Malagari K, Chatzmichael K, Alexopoulou E et al. Cardiovasc Intervent Radiol 31 (2008): 269-280
- 4. Llovet JM, Real MI, Montana X et al. Lancet 359 (2002): 1734-1739

Trials for Hepatic Metastases





Clinical Trials for Hepatocellular Carcinoma

		+⊙	31/2 31/2	Ť	130	
	Study Design	Endpoint	Status	n	Location	
Bridge to Liver Transplant	Prospective Random Conventional TACE in the Treatm	aiting Lis	st			
	Multicentre, Randomised, Phase II	Histological Response and Transplantability	Recruiting	72	Germany	Bridge to Liver Transplant
	Assessment of Chem Orthotopic Liver Tra			er Tran		
	Single-Centre, Phase II	Histological Response and Transplantability	Recruiting	30	New Zealand	to Liv
	LC Drug-Eluting Bead fo			Bridge		
	Single-Centre, Phase II	Histological Response and Resectability	Recruiting	20	USA	
Unsuitable for Liver Transplant or Resection	Chemoembolization of Hepatocellular Carcinoma with Drug-Eluting Beads: Efficacy and Doxorubicin Pharmacokinetics (PRECISION I)					
	Single-Centre, Phase II	Safety, Efficacy and Pharmacokinetics (Dose Escalation)	Published: Varela M, Real MI, Burrel M et al: Journal of Hepatology 46 (2007) 474-481	27	Spain	
	A Phase I/ using					
	Prospective, Single-Arm, Phase I/II	Phase I: Dose Escalation Phase II: Safety and Efficacy	Published: Poon R, Tso W, Pang R et al: Journal Clinical Gastroenterology and Hepatology 5 (2007) 1100-1108	35	Hong Kong	uo
	Prospective Ran Carcin			esecti		
	International Multicentre, Prospective, Randomised, Single-Blind, Phase II	Safety and Efficacy	Published: Lammer J, Malagari K, Vogl T et al: Cardiovasc Intervent Radiol 33 (2010) 41-521	212	International Multicentre	Unsuitable for Liver Transplant or Resection
		ubicin-eluting Bead-enhance of Hepatocellular Carcinoma:				anspla
	Prospective, Single-Arm, Pilot	Safety and Efficacy	Published: Lencioni R, Crocetti L, Petruzzi P et al: Journal of Hepatology 49 (2008) 217-222	20	Italy	iver Tr
	Prospective Randomized Comparison of Chemoembolization with Doxorubicin-Eluting Beads and Bland Embolization with BeadBlock for Hepatocellular Carcinoma					e for L
	Prospective, Randomised, Single-Centre	Efficacy, Safety, Time to Progression and Survival	Published: Malagari K, Pomoni M, Kelekis et al: Cardiovasc Intervent Radiol 33 (2010) 541-551	41	Greece	suitabl
	Single Centre Phase II Trial of Transarterial Chemoembolization with Drug-Eluting Beads for Patients with Unresectable Hepatocellular Carcinoma					ä
	Prospective, Single-Arm, Phase II, Pilot	Efficacy, Safety, Feasibility, Progression-Free Survival and Overall Survival	Published: Reyes D, Vossen J, Geschwind J et al: The Cancer Journal 15 (2009) 526-532	20	USA	
	A Phase II Randomized, Double-blind, Placebo-controlled Study of Sorafenib or Placebo in Combination With Transarterial Chemoembolization (TACE) Performed With DC Bead and Doxorubicin for Intermediate Stage Hepatocellular Carcinoma (HCC)					
	International Multicentre, Randomised, Double-Blind, Phase II	Time to Untreatable Progression	Recruiting	300	International Multicentre	

DC Bead® Bibliography



Trans-arterial Chemoembolization (TACE) of Liver Metastases from Colorectal Cancer Using Irinotecan-Eluting Beads: Preliminary Results.

Aliberti C, Tilli M, Benea G & Fiorentini G Anticancer Research 26 (2006): 3793-3796



Chemoembolization of hepatocellular carcinoma with drug eluting beads: Efficacy and doxorubicin pharmacokinetics

Varela M. Real Ml. Burrel M et al Journal of Hepatology 46 (2007): 474-481



Intraarterial Hepatic Chemoembolization of Liver Metastases from Colorectal Cancer Adopting Irinotecan-eluting Beads: Results of a Phase II Clinical Study.

Fiorentini G, Aliberti C, Turrisi G et al In vivo 21 (2007): 1085-1092



A Phase I/II Trial of Chemoembolization for Hepatocellular Carcinoma Using a Novel Intra-Arterial Drug-Eluting Bead.

Poon RTP, Tso WK, Pang RWC et al. Clinical Gastroenterology and Hepatology (2007) 5:100-1108



Transarterial Chemoembolization of Unresectable Hepatocellular Carcinoma with Drug Eluting Beads: Results of an Open-Label Study of 62 Patients

Malagari K, Chatzimichael K, Alexopoulou E et al Cardiovasc intervent Radiol 31 (2008): 269-280



Transcatheter chemoembolization in the treatment of HCC in patients not eligible for curative treatments: mid-term results of doxorubicin-loaded DC Bead.

Malagari K, Alexopoulou E, Chatzimichail K et al Abdominal Imaging 33(5) 2008: 512-9



Drug-Loaded Microspheres for the Treatment of Liver Cancer: Review of Current Results

Kettenbach J, Stadler A, van Katzler I et al (J Lammer) Cardiovasc Intervent Radiol 31 (2008): 468-476



Chemoembolization (TACE) of Unresectable Intrahepatic Cholangiocarcinoma with Slow-Release Doxorubicin-Eluting Beads: Preliminary Results.

Aliberti C, Benea G, Tilli M et al Cardiovasc Intervent Radiol 31 (2008): 883-888



Transarterial Chemoembolization of Liver Metastases from Well Differentiated Gastroenteropancreatic Endocrine Tumors with Doxorubicineluting Beads: Preliminary Results.

de Raere T. Deschamps F. Teriitheau C. et al. J Vasc Interv Radiol 19 (2008): 855-861



Doxorubicin-eluting beadenhanced radiofrequency ablation of henatocellular carcinoma: A pilot clinical study.

Lencioni R. Crocetti L. Petruzzi P et al. Journal of Hepatology 49 (2008): 217-222



rospective Randomized Comparison of Chemoembolization with Doxorubicin-Eluting Beads and Bland Embolization with BeadBlock for Hepatocellular

Malagari K. Pomoni M. Kelekis A et al. Cardiovasc Interv Radiol 33 (2010): 541-551



Drug-eluting bead therapy in primary and metastatic disease of the liver

Carter S and Martin RCG HPB 11 (2009); 541-550 on of John Wiley & Sons Ltd.



Transarterial Chemoembolization of Metastatic Colorectal Carcinoma with Drug-Eluting Beads, Irinotecan (DEBIRI): Multi-Institutional Registry.

Martin RCG, Joshi J, Robbins K et al Journal of Oncology (2009) Article ID 539795 doi:10.1155/2009/539795



Single-Center Phase II Trial of Transarterial Chemoembolization with Drug-Eluting Beads for Patients with Unresectable Hepatocellular Carcinoma. Initial Experience in the United States.

Reyes D, Vossen J, Geschwind J et al The Cancer Journal 15 (2009): 526-532



Prospective Randomized Study of Doxorubicin-Eluting-Bead Embolization in the Treatment of Hepatocellular Carcinoma: Results of the PRECISION V Study.

Lammer J, Malagari K, Vogl T et al Cardiovasc Intervent Radiol 33 (2010): 41-52



Stability of irinotecan-loaded drug eluting beads (DC Bead™) used for transarterial chemoembolization.

Kaiser J, Thiesen J & Krämer I J Oncol Pharm Practice 16 (2010): 53-61



Surgical downstaging and neo-adjuvant therapy in metastatic colorectal carcinoma with irinotecan drug-eluting beads: a multiinstitutional study.

Bower M, Metzger T, Robbins K et al HPR 12 (2010) 31-36



Prognostic factors for survival in patients with unresectable hepatocellular carcinoma undergoing chemoembolization with doxorubicin drug-eluting beads: a preliminary study.

Dhanasekaran R, Kooby D, Staley C et al (Kim H) HPB 12(3) 2010: 174-180



Comparison of Conventional Transarterial Chemoembolization (TACE) and Chemoembolization with Doxorubicin Drug Eluting Beads (DEB) for Unresectable Hepatocellular Carcinoma.

Dhanasekaran R. Kooby D. Staley C et al J of Surg Onc 101 (2010): 476-480



Transarterial Chemoembolization with Epirubicin-eluting Beads versus Transarterial Embolization before Liver Transplantation for Henatocellular Carcinoma

n of John Wiley & Sons Ltd

Nicolini A. Martinetti L. Crespi S et al J Vasc Interv Radiol 21 (2010): 327-332



Toxicity of Irinotecn Eluting Beads in the treatment of Hepatic Malignancies: Results of Multi-Institutional Registry

Martin R, Howard J, Tomalty D et al Cardiovasc Intervent Radiol 55 (2010): 1022-1027



Imaged Guided Transarterial Chemoembolization with Drug-Eluting Beads Loaded with Doxorubicin (DEBDOX) for Hepatic Metastases from Melanoma: Early Outcomes from a Multi-Institutional Registry

R Brown, K Gibler, T Metzger et al The American Surgeon 77 (2011): 93-98



Hepatic Intra-Arterial Injection of Drug-Eluting Bead, Irinotecan (DEBIRI) in Unresectable Colorectal Liver metastases Refractory to Systemic Chemotherapy: Results of Multi-Institutional Study

Martin R. Joshi J. Rohhins K. et al Annals of Surgical Oncology 18 (2011): 192-198

DC Bead Ordering Information

Label Colour	Nominal Bead Size	Volume of Beads	Product Code				
Yellow	100 - 300µm	2ml	DC2V103				
Blue	300 - 500μm	2ml	DC2V305				
Red	500 - 700μm	2ml	DC2V507				

DC Bead is a registered trademark and LC Bead, DEBIRI and DEBDOX are trademarks of Biocompatibles UK Ltd. DC Bead® is CE marked and is indicated for the treatment of malignant hypervascular tumours and loading with doxorubicin drug. DC Bead® is also indicated for loading with irinotecan for the treatment of metastatic colorectal cancer (mCRC). The product may not be available for sale, may not be registered, approved or cleared for use as claimed in all countries where Biocompatibles is represented. For full prescribing and safety information, please refer to www.biocompatibles.com/dcbead-ifu. DC Bead is not currently available for sale or distributions in the USA. © 2011 Biocompatibles UK Limited EC10-096 Rev 3.

Biocompatibles UK Ltd.

Tel: +44 (0) 1252 732 732 Fax: +44 (0) 1252 732 777 email: marketing@biocompatibles.com

www.biocompatibles.com



