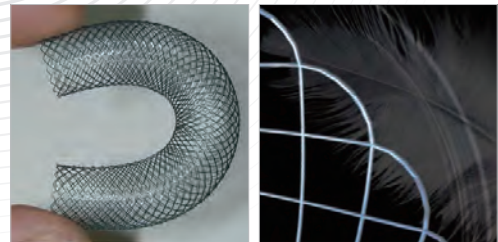
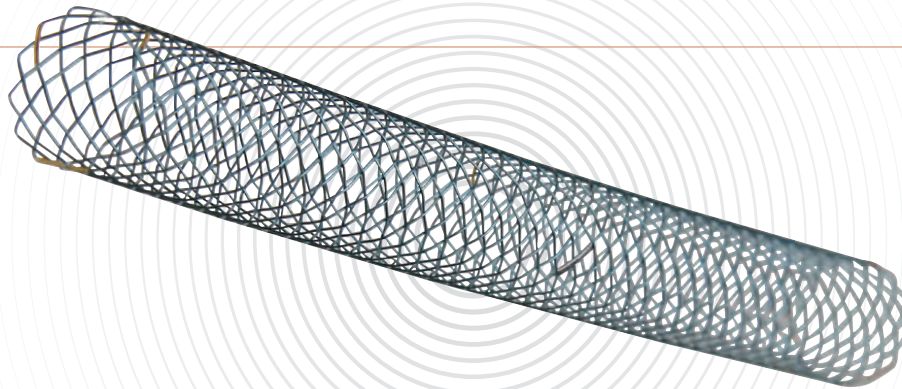


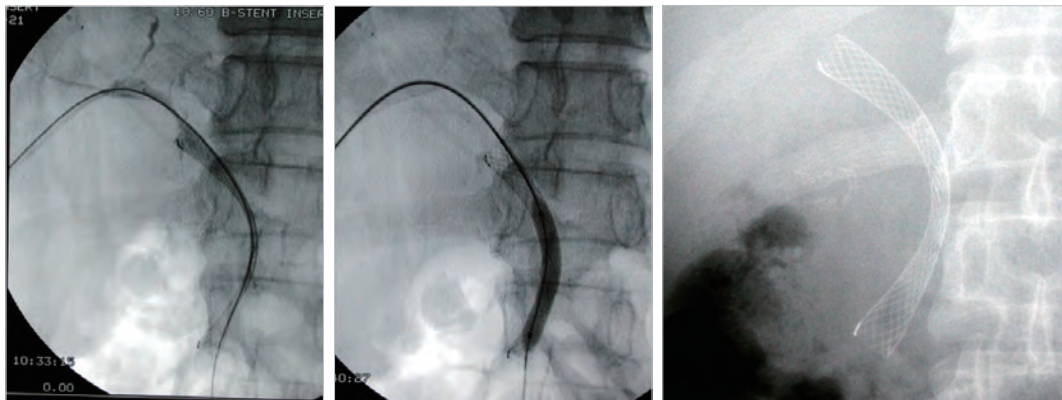
Niti-S Biliary Uncovered Stent

S-type



Features

- **Structure: "S-type"**
 - Flexible and resistant to fracture
- **Atraumatic ends**
 - Less hyperplasia at the edges
- **Radiopaque marker** : 3(three) at the both ends & 2(two) at the middle





Ordering Information

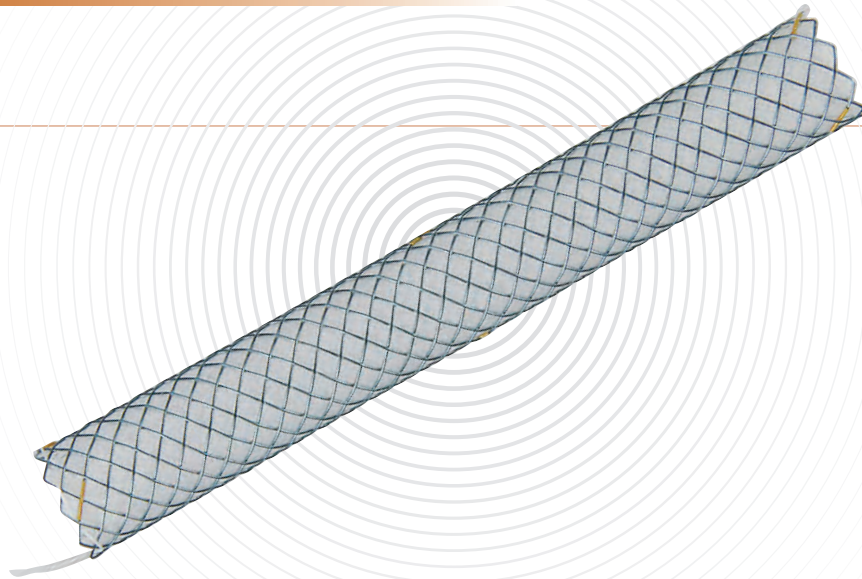
Endoscopic Approach					Percutaneous Approach				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
B0604	6	4	7	180	T0604	6	4	7	50
B0605		5			T0605		5		
B0606		6			T0606		6		
B0607		7			T0607		7		
B0608		8			T0608		8		
B0609		9			T0609		9		
B0610		10			T0610		10		
B0612		12			T0612		12		
B0804	8	4			T0804	8	4		
B0805		5			T0805		5		
B0806		6			T0806		6		
B0807		7			T0807		7		
B0808		8			T0808		8		
B0809		9			T0809		9		
B0810		10			T0810		10		
B0812		12			T0812		12		
B1004	10	4			T1004	10	4		
B1005		5			T1005		5		
B1006		6			T1006		6		
B1007		7			T1007		7		
B1008		8			T1008		8		
B1009		9			T1009		9		
B1010		10			T1010		10		
B1012		12			T1012		12		

Relative Studies

- "Palliation of Malignant Biliary and Duodenal Obstruction with Combined Metallic Stenting"
- Devrim Akinci: *Cardiovasc Intervent Radiol* (2007) 30:1173–1177

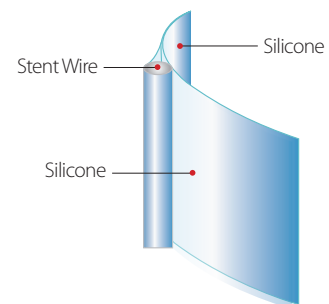
Niti-S Biliary Covered Stent

S-type

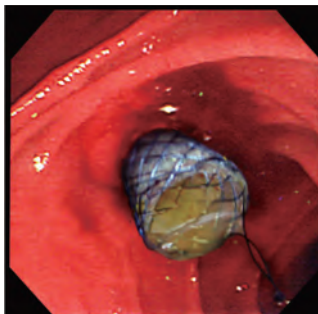


Features

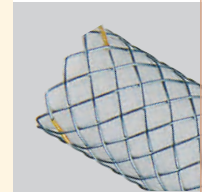
- **Structure: "S-type" configuration with Silicone covered membrane**
 - Silicone covering prevents the risk of tumor in-growth
 - Smooth inner surface for hydrodynamic flow of bile and optimal resistance against to sludge
- **Removal string at the proximal end**
 - Retrieval string facilitates safe and smooth removal



► Safe Removal



- **Radiopaque marker**: 3(three) at the both ends & 2(two) at the middle



Ordering Information

Endoscopic Approach					Percutaneous Approach				
► Full covered type					► Full covered type				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BS0604F	6	4	8	180	TS0604F	6	4	8	50
BS0605F		5			TS0605F		5		
BS0606F		6			TS0606F		6		
BS0607F		7			TS0607F		7		
BS0608F		8			TS0608F		8		
BS0609F		9			TS0609F		9		
BS0610F		10			TS0610F		10		
BS0612F		12			TS0612F		12		
BS0804F	8	4			TS0804F	8	4		
BS0805F		5			TS0805F		5		
BS0806F		6			TS0806F		6		
BS0807F		7			TS0807F		7		
BS0808F		8			TS0808F		8		
BS0809F		9			TS0809F		9		
BS0810F		10			TS0810F		10		
BS0812F		12			TS0812F		12		
BS1004F	10	4			TS1004F	10	4		
BS1005F		5			TS1005F		5		
BS1006F		6			TS1006F		6		
BS1007F		7			TS1007F		7		
BS1008F		8			TS1008F		8		
BS1009F		9			TS1009F		9		
BS1010F		10			TS1010F		10		
BS1012F		12			TS1012F		12		

Coding

BS----F: S-silicone F-full covered

Relative Studies

- "Polyurethane-Covered Self-Expandable Nitinol Stent for Malignant Biliary Obstruction: Preliminary Results"
- Young-Min Han: *Cardiovasc Intervent Radiol* (2002) 25:381–387



Ordering Information

Endoscopic Approach					Percutaneous Approach				
► Both ends 5mm bare					► Both ends 5mm bare				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BS0604B	6	4	8	180	TS0604B	6	4	8	50
BS0605B		5			TS0605B		5		
BS0606B		6			TS0606B		6		
BS0607B		7			TS0607B		7		
BS0608B		8			TS0608B		8		
BS0609B		9			TS0609B		9		
BS0610B		10			TS0610B		10		
BS0612B		12			TS0612B		12		
BS0804B	8	4			TS0804B	8	4		
BS0805B		5			TS0805B		5		
BS0806B		6			TS0806B		6		
BS0807B		7			TS0807B		7		
BS0808B		8			TS0808B		8		
BS0809B		9			TS0809B		9		
BS0810B		10			TS0810B		10		
BS0812B		12			TS0812B		12		
BS1004B	10	4			TS1004B	10	4		
BS1005B		5			TS1005B		5		
BS1006B		6			TS1006B		6		
BS1007B		7			TS1007B		7		
BS1008B		8			TS1008B		8		
BS1009B		9			TS1009B		9		
BS1010B		10			TS1010B		10		
BS1012B		12			TS1012B		12		

Coding

BS----B : S-silicone B-both ends 5mm bare

Self-expandable Metallic Stent

Taewoong Niti-S Biliary Stent Large Cell D [LCD]

- New Generation modality for
Hilar Biliary Obstruction

► 3 stents in stent



*"Facilitating passage of the second stent
through the mesh for hilar obstruction"*

- Provided by Dr. Hiroyuki Isayama, Tokyo University Hospital

Taewoong Niti-S Biliary Stent [LCD]



TaeWoongMedical

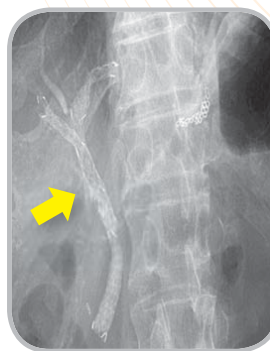
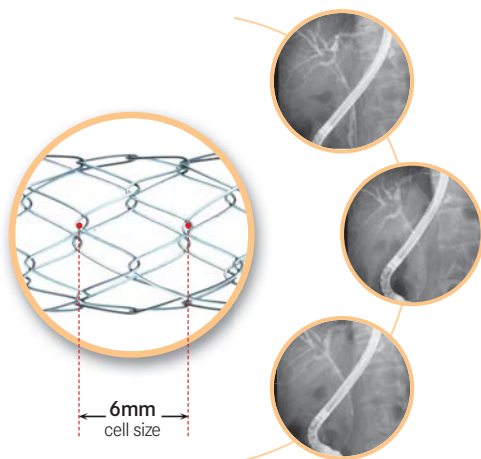
SALES OFFICE

#610, Ilsan Techno Town, Baekseok-dong, Ilsan-gu, Gyeonggi-do, Korea 411-722
TEL : +82.31.904.6153 FAX : +82.31.904.6157 E-MAIL : sales@stent.net www.stent.net

“New solution for hilar obstruction with simple and easy method - LCD stent”

● Unfixed and Large Cell with strong radial force structure

A. Easy positioning of the second stenting : Conventional SEMS for hilar obstruction were limited in positioning because the central portion of the stent had to be placed at the hilar bifurcation, but the LCD is flexible in positioning due to its uniform Large Cell stent design



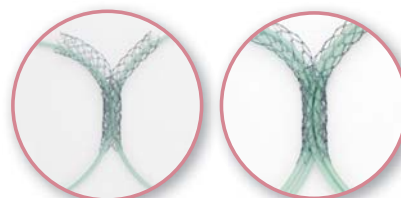
2 stents insertion



3 stents insertion

- Provided by Dr. Hiroyuki Isayama & Dr. Hirofumi Kogure from Tokyo University Hospital

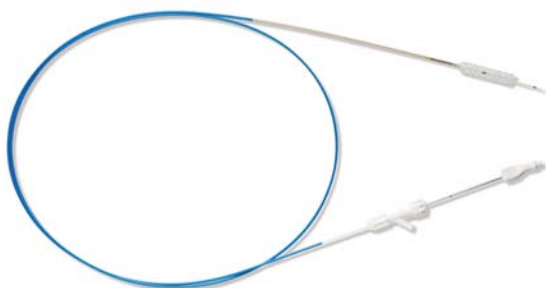
B. Simple and easy reintervention : Reintervention through the large cell is easily performed, even after bilateral stent placement.



Plastic stents can be inserted easily through the interstices

C. Low axial force and Optimal radial force : Adapts to hilar biliary anatomy resulting in patient's comfort

● High trackability and deliverability with low profile introducer system (8Fr)



“Newly designed endoscopic metallic stent may be feasible and effective for malignant hilar biliary obstruction, and endoscopic reintervention is relatively simple”

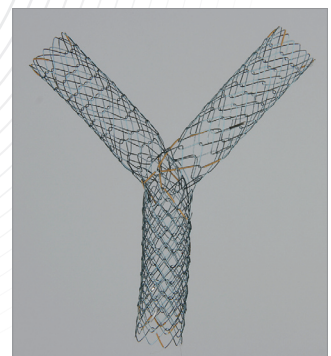
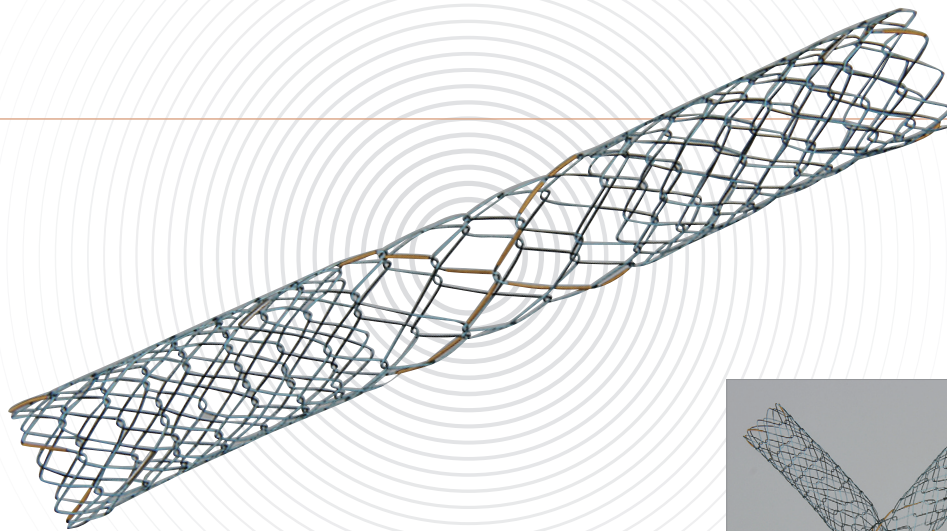
- @Springer Science+Business Media, LLC 2010

● Ordering Information

Endoscopic Approach					Percutaneous Approach				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BLD0604	6	4	8	180	TLD0604	6	4	8	50
BLD0605		5			TLD0605		5		
BLD0606		6			TLD0606		6		
BLD0607		7			TLD0607		7		
BLD0608		8			TLD0608		8		
BLD0609		9			TLD0609		9		
BLD0610		10			TLD0610		10		
BLD0612		12			TLD0612		12		
BLD0804	8	4			TLD0804	8	4		
BLD0805		5			TLD0805		5		
BLD0806		6			TLD0806		6		
BLD0807		7			TLD0807		7		
BLD0808		8			TLD0808		8		
BLD0809		9			TLD0809		9		
BLD0810		10			TLD0810		10		
BLD0812		12			TLD0812		12		
BLD1004	10	4			TLD1004	10	4		
BLD1005		5			TLD1005		5		
BLD1006		6			TLD1006		6		
BLD1007		7			TLD1007		7		
BLD1008		8			TLD1008		8		
BLD1009		9			TLD1009		9		
BLD1010		10			TLD1010		10		
BLD1012		12			TLD1012		12		

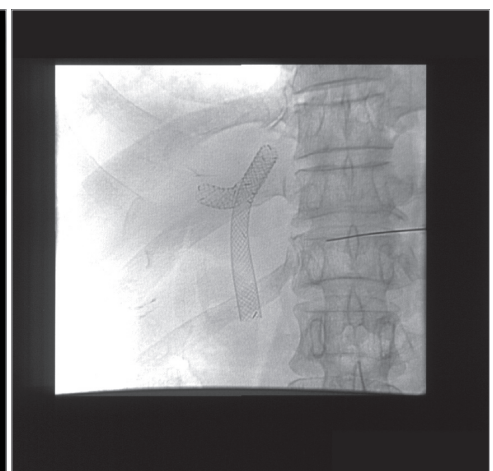
Niti-S Biliary Uncovered Stent

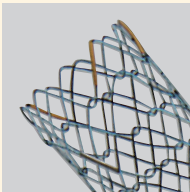
Y/T-type



Features

- **Structure:** "D-type" configuration with large central interstice
 - Large central interstice to improve traversing with second stent
 - Effective solution for bilateral stenting for malignant hilar obstruction
- **Radiopaque marker:** 4(four) at the both ends & special 2cm long markers at the central interstice portion





Ordering Information

Endoscopic Approach					Percutaneous Approach				
Endoscopic					Percutaneous				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BY1004A	10	4	8	180	TT1004A	10	4	8	50
BY1005A		5			TT1005A		5		
BY1006A		6			TT1006A		6		
BY1007A		7			TT1007A		7		
BY1008A		8			TT1008A		8		
BY1009A		9			TT1009A		9		
BY1010A		10			TT1010A		10		
BY1012A		12			TT1012A		12		

Coding
BY----A : Y-type

Coding
TT----A : T-type

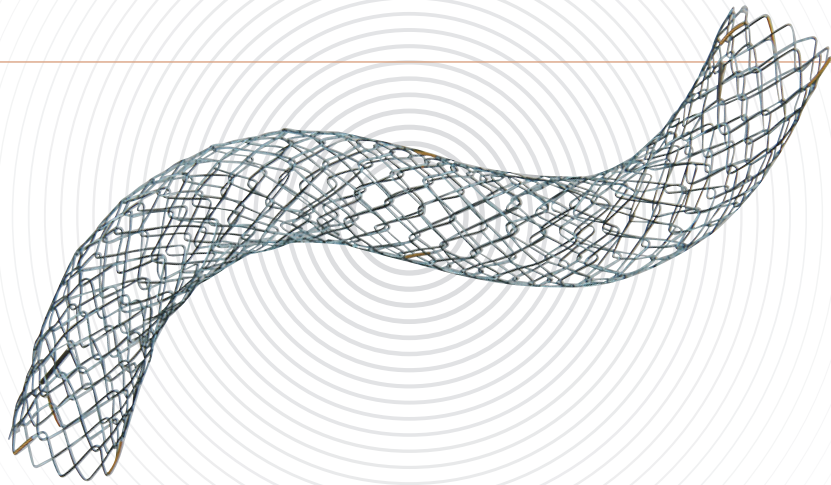
Relative Studies

- **Y-type:** "Endoscopic bilateral metal stent placement for advanced hilar cholangiocarcinoma: a pilot study of a newly designed Y stent"
- Jung Hyun Lee: *GASTROINTESTINAL ENDOSCOPY* Volume 66, No. 2 : 2007
- **T-type:** "T-Configured Dual Stent Placement in Malignant Biliary Hilar Duct Obstructions with a Newly Designed Stent"
- Chang Won Kim: *J Vasc Interv Radiol* 2004; 15:713–717

Niti-S Biliary Uncovered Stent

D-type

(*Now Available in USA)

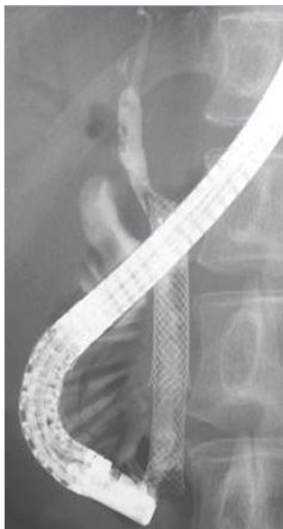


Features

- **Structure: "D-type"**

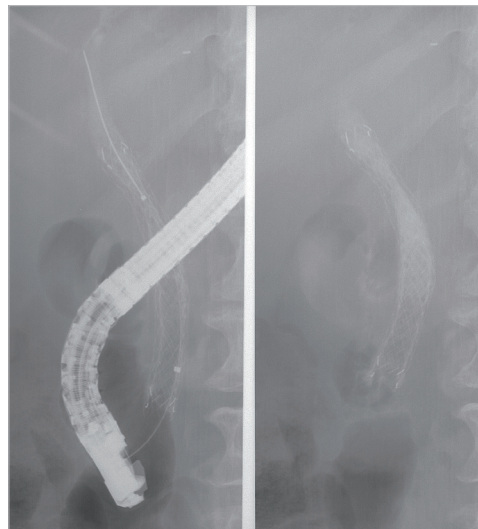
- Low foreshortening for accurate positioning
- Ideal combination of radial and axial force to maintain full luminal patency in torturous anatomy

Competitor



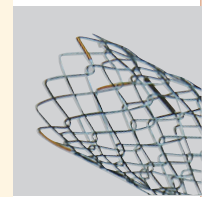
Low conformability

Taewoong



High conformability

- **Radiopaque marker: 3(three) at the both ends & 2(two) at the middle**



Ordering Information

Endoscopic Approach					Percutaneous Approach				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BD0604	6	4	8	180	TD0604	6	4	8	50
BD0605		5			TD0605		5		
BD0606		6			TD0606		6		
BD0607		7			TD0607		7		
BD0608		8			TD0608		8		
BD0609		9			TD0609		9		
BD0610		10			TD0610		10		
BD0612		12			TD0612		12		
BD0804	8	4			TD0804	8	4		
BD0805		5			TD0805		5		
BD0806		6			TD0806		6		
BD0807		7			TD0807		7		
BD0808		8			TD0808		8		
BD0809		9			TD0809		9		
BD0810		10			TD0810		10		
BD0812		12			TD0812		12		
BD1004	10	4			TD1004	10	4		
BD1005		5			TD1005		5		
BD1006		6			TD1006		6		
BD1007		7			TD1007		7		
BD1008		8			TD1008		8		
BD1009		9			TD1009		9		
BD1010		10			TD1010		10		
BD1012		12			TD1012		12		

Coding
BD---- : D-type

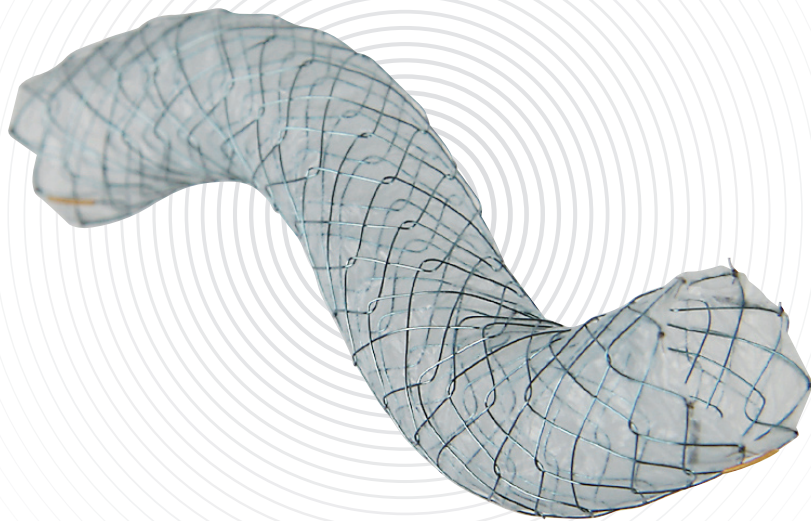
Coding
TD---- : D-type

Relative Studies

- “A comparison of the Niti-D biliary uncovered stent and the uncovered Wallstent in malignant biliary obstruction”
- Ki Young Yang: GASTROINTESTINAL ENDOSCOPY Volume 70, No. 1 : 2009

Niti-S Biliary Covered Stent

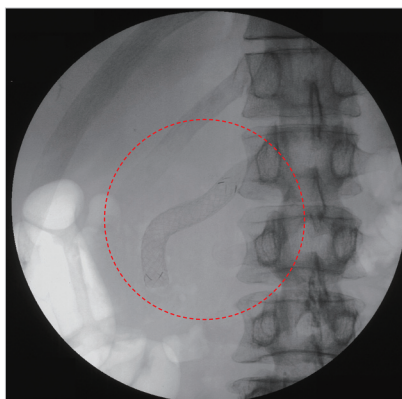
Comvi-type



Features

- **Structure: "Comvi-type"**

- Ideal combination of radial and axial force to maintain full luminal patency in torturous anatomy
- PTFE membrane prevents risks of tissue invasion
- Outer wire mesh prevents migration
- Minimum foreshortening for accurate placement of stent



- **Radiopaque marker** : 4(four) at the both covered part ends



Ordering Information

Endoscopic Approach

► Full covered

Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BC0604F	6	4	8	180
BC0605F		5		
BC0606F		6		
BC0607F		7		
BC0608F		8		
BC0609F		9		
BC0610F		10		
BC0612F		12		
BC0804F	8	4		
BC0805F		5		
BC0806F		6		
BC0807F		7		
BC0808F		8		
BC0809F		9		
BC0810F		10		
BC0812F		12		
BC1004F	10	4		
BC1005F		5		
BC1006F		6		
BC1007F		7		
BC1008F		8		
BC1009F		9		
BC1010F		10		
BC1012F		12		

Percutaneous Approach

► Full covered

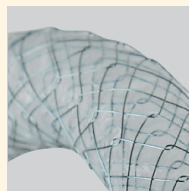
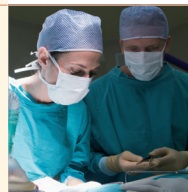
Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
TC0604F	6	4	8	50
TC0605F		5		
TC0606F		6		
TC0607F		7		
TC0608F		8		
TC0609F		9		
TC0610F		10		
TC0612F		12		
TC0804F	8	4		
TC0805F		5		
TC0806F		6		
TC0807F		7		
TC0808F		8		
TC0809F		9		
TC0810F		10		
TC0812F		12		
TC1004F	10	4		
TC1005F		5		
TC1006F		6		
TC1007F		7		
TC1008F		8		
TC1009F		9		
TC1010F		10		
TC1012F		12		

Coding

BC----F : C-comvi F-full covered

Relative Studies

- "Measurement of radial and axial forces of biliary self-expandable metallic stents"
- Hiroyuki Isayama: *GASTROINTESTINAL ENDOSCOPY* Volume 70, No. 1 : 2009
- "Management of distal malignant biliary obstruction with the ComVi stent, a new covered metallic stent"
- Hiroyuki Isayama: *Surg Endosc Springer Science+Business Media, LLC* 2009



Ordering Information

Endoscopic Approach					Percutaneous Approach				
► Both ends 5mm bare					► Both ends 5mm bare				
Code	Stent		Delivery		Code	Stent		Delivery	
	Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)		Diameter (mm)	Length (cm)	Profile (Fr)	Usable Length (cm)
BC0604B	6	4	8	180	TC0604B	6	4	8	50
BC0605B		5			TC0605B		5		
BC0606B		6			TC0606B		6		
BC0607B		7			TC0607B		7		
BC0608B		8			TC0608B		8		
BC0609B		9			TC0609B		9		
BC0610B		10			TC0610B		10		
BC0612B		12			TC0612B		12		
BC0804B	8	4			TC0804B	8	4		
BC0805B		5			TC0805B		5		
BC0806B		6			TC0806B		6		
BC0807B		7			TC0807B		7		
BC0808B		8			TC0808B		8		
BC0809B		9			TC0809B		9		
BC0810B		10			TC0810B		10		
BC0812B		12			TC0812B		12		
BC1004B	10	4			TC1004B	10	4		
BC1005B		5			TC1005B		5		
BC1006B		6			TC1006B		6		
BC1007B		7			TC1007B		7		
BC1008B		8			TC1008B		8		
BC1009B		9			TC1009B		9		
BC1010B		10			TC1010B		10		
BC1012B		12			TC1012B		12		

Coding

BC----B : C-comvi B-both ends 5mm bare