# Vecchio Balloon Dilatation Catheter

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT THESE INSTRUCTIONS

FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

#### 1.0 Device Description

The Vecchio Balloon Dilatation Catheter is designed to allow easy exchange of the catheter using a standard length guidewire. Balloon diameters range from 2.0mm to 5.0mm. The balloon material is made of a minimally compliant material with a rated burst pressure of 22 atmospheres for o2.0-4.0mm and 20 atmospheres for Φ4.5-5.0mm balloon respectively. The minimally compliant balloon material will allow high pressure dilatation while maintaining precise control of the balloon diameter and length. The proximal shaft of the catheter is composed of a female luer connector bonded to a PTFE coated stainless steel tube. The proximal shaft allows superior proximal pushability with a smooth transition to a distal shaft composed of an outer tube of nylon and a tri-extrusion inner tube with a balloon laser welded to both tubes at the distal tip. Two radiopaque platinum/iridium marker bands are positioned within the balloon shoulders. The inner tube accepts a standard 0.014 inch PTCA guidewire. The guidewire enters the catheter tip and advances coaxially out the distal Rx port, thereby allowing both coaxial guidance and rapid exchange of catheter with a single standard length guidewire. Two marked sections, 5mm in length located on the proximal shaft, indicate catheter position relative to the tip of either a brachial or femoral guiding catheter. The design of this dilatation catheter does not incorporate a lumen for distal dve injections or distal pressure measurements.

Clinical benefit: to restore the patency of indicated vessel lumen of patients.

#### 2.0 How supplied

One (1) Balloon Dilatation Catheter Contents:

One (1) Flushing Needle One (1) Re-wrap Tool

Sterile sterilized with ethylene oxide gas. Non-pyrogenic.

Storage Store in a dry, dark, cool place

# 3.0 Intended use

The balloon dilatation catheter is intended for dilatation of stenosis and post-deployed stent in the coronary artery or bypass graft.

# 4.0 Indications

- . The balloon dilatation catheter is indicated for balloon dilatation of the stenotic portion of a coronary artery or bypass graft stenosis for the purpose of improving myocardial perfusion.
- Balloon dilatation of a stent after implantation (balloon models 2.0 mm -5.0 mm only) Note: Bench testing was conducted with the Vecchio Balloon Dilatation Catheter and marketed balloon expandable stents. Consideration should be taken when this device is used with different manufacturers' stents due to difference in stent design.

#### 5.0 Contraindications

The catheter is contraindicated for use in:

- · Unprotected left main coronary artery
- · Coronary artery spasm in the absence of significant stenosis

# 6.0 Intended user

Intended users are the competent physicians who have the training of PTCA and Balloon catheter management.

#### 7.0 Intended patient population

Patients who need PTCA during treatment.

# 8.0 Warnings

- For single patient, single procedure use only. Do NOT resterilize and/or reuse it, as this can potentially result in compromised device performance and increase risk of inappropriate resterilization and cross contamination.
- . Do NOT use the catheter if its package has been opened or damaged.
- To reduce the notential for vessel damage in the inflated diameter of the balloon should approximate the diameter of the vessel just proximal and distal to the stenosis
- · PTCA in patients who are not acceptable candidates for coronary artery bypass graft surgery requires careful consideration, including possible hemodynamic support during PTCA, as treatment of this patient population carries special risk
- When the catheter is exposed to the vascular system, it should be manipulated while under high-quality fluoroscopic observation. Do NOT advance or retract the catheter unless the balloon is fully deflated under vacuum as this can potentially result in damage to the vessel wall. If resistance is met during manipulation, determine the cause of the resistance before proceeding.
- Balloon pressure should not exceed the rated burst pressure indicated on the package label for each balloon. The rated burst pressure is based on the results

- of in vitro testing. Use of a pressure monitoring device is recommended to prevent over pressurization. PTCA should only be performed at hospitals where emergency coronary artery bypass graft surgery can be quickly performed in the event of a potentially injurious or life-threatening
- Use only the recommended balloon inflation medium. To prevent the possibility of an air embolus, never use air or any gaseous medium to inflate balloon
- Use the catheter prior to the "Use by" date (Expiration Date) specified on the package.

#### 9.0 Precautions

- · Prior to angioplasty, the catheter should be examined to verify functionality and ensure that its size and shape are suitable for the procedure for which it is to be used
- The catheter system should be used only by physicians trained in the performance of percutaneous transluminal coronary angioplasty.
- Appropriate anticoagulation, antiplatelet and vasodilator therapy should be administered to the patient.
- When using two guide wires, care should be taken when introducing, torqueing and removing one or both guide wires to avoid entanglement. It is recommended that one guide wire be completely withdrawn for the patient before removing any additional equipment.

## 10.0 Adverse Events

Possible adverse effects include, but are not limited to the following

- Death
- · Acute myocardial infarction
- Total occlusion of the coronary artery or bypass graft
- · Coronary vessel dissection, perforation, rupture or injury
- · Restenosis of the dilated vessel
- Hemorrhage or hematoma
- Unstable angina
- Arrhythmias, including ventricular fibrillation
- . Drug reactions, allergic reaction to contrast medium
- Hypo/hypertension
- Infection
- · Coronary artery spasm
- Arteriovenous fistula
- Embolism

Notice: any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

#### 11.0 Materials to be used in combination with a balloon catheter

- Suitable guide wire, refer to label claim
- 20cc syringe for balloon preparation
- · Suitable guiding catheter, refer to label claim
- · 10cc or smaller syringe for manual dye injections
- Appropriate inflation medium (e.g. 50:50 sterile mixture of a contrast
- medium and saline) Pressure-indicating inflation device
- Hemostasis valve

## 12.0 Preparation for Use

- · Select an appropriate balloon catheter for the target vessel
- · Remove the device from the sterile packaging
- Prior to use, examine all devices carefully for defects. Examine the dilatation catheter for bends, kinks, or any other damage. Do NOT use any defective device.
- Remove the protective balloon stylet and balloon protector
- · Using the flushing needle, flush the guidewire lumen with saline
- Balloon Purging, purge air from the catheter using a 20cc syringe filled with 2 to 3ml of the inflation medium with the balloon catheter pointing downward. Attach an inflation device to the balloon inflation port. Ensure that a meniscus of contrast medium is evident in both the catheter luer connector and the inflation device. Apply negative pressure with the inflation device. Do NOT attempt Pre-Inflation technique to purge the halloon lumen

Caution: All air shall be removed from the balloon and displaced with contrast medium prior to inserting into the body. Otherwise complications may occur. 13.0 Instruction for Use

- Insertion Technique
  - Place the guiding catheter, with a hemostasis valve attached, in the orifice

# INSTRUCTIONS FOR USE

- of the target coronary artery
- Advance the guide wire through the guiding catheter to reach and cross the target lesion. Advance the distal tip of the balloon catheter over the proximal end of the guide wire. Ensure that the guide wire exits the balloon catheter throught the guide wire exit location
- The hemostasis valve should be gradually tightened to control back flow. Excessive valve tightening may affect balloon inflation/deflation time as well as movement of the guide wire.
- Track the balloon catheter over the wire to cross the lesion using the radiopaque marker(s) to locate the balloon across the lesi-
- Balloon Inflation
- Inflate the balloon to dilate the lesion using standard PTCA techniques.
- After each subsequent inflation, the distal blood flow should be assessed.
- If a significant stenosis persists, successive inflations may be required to resolve the stenosis. Do NOT exceed the rated burst pressure (see labeling).
- Confirm the results with fluoroscopy. Removing the Catheter
  - Apply negative pressure of the inflation device and confirm that the balloon is fully deflated.
  - Withdraw the balloon catheter into the guiding catheter while preserving
  - guide wire position.

     After the deflated balloon dilatation catheter is withdrawn, it should be wiped clean with gauze soaked with sterile normal saline.

    - Inspect the balloon catheter integrity.
- If reinserting the same balloon dilation catheter, flush the guide wire lumen of the balloon dilatation catheter using the flushing needle as described in the "Preparation for Use" section. Prior to reinsertion, the balloon dilatation catheter should be wiped clean with gauze soaked with sterile normal saline. The balloon may be refolded using the rewrap tool as described in the Re-Fold Tool as described in the "Re-Fold Tool" Section.
- This is an accessory component that allows the balloon to be rewrapped
  - if required • Deflate the balloon by applying negative pressure to the inflation device and maintain under vacuum
  - Visually inspect the balloon to confirm that it is fully deflated
  - · Remove the Re-fold Tool from Compliance Card
  - . Load the non-flared end of the re-fold tool onto the stylet
  - · Carefully load the stylet back through the distal tip of the catheter and past the proximal end of the balloon
  - While holding the catheter just proximal to the balloon, push the re-fold device over the balloon in a gentle twisting motion until the entire balloon is covered
  - · Gently remove the re-fold device/stylet assembly
  - Inspect the balloon for any potential damage. Discard the balloon catheter if there is any visual damage present on the balloon
- Disposal
- After use, dispose and discard the product and packaging in accordance with hospital, administrative and/or local government policy

#### 14 0 Reference

- · Physicians should consult recent literature on current medical practice on balloon dilatation, such as published by American College of Cardiology/ American Heart Association.
- · The used PTCA catheter disposal shall follow individual medical institutions/ hospitals' guidelines.
- . The Summary of Safety and Clinical Performance (SSCP) for product is available in the Eudamed: https://ec.europa.eu/ tools/eudamed (Before the Eudamed is fully functional, please contact the Manufacturer at cs@cnovate.eu)

# 15.0 Disclaimer of Warranty

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### Manufacturer:

Terminalweg 15, 3821 AJ Amersfoort, The Netherlands Phone: +31 850 14 04 04

XPLANATION OF SYMBOLS	
Description	Symbol
Catalog Number	REF
Lot Number	LOT
Balloon Diameter	BALLOON Q
Balloon Length	BALLOON -
Sterilized Using Ethylene Oxide	STERILE EC
Single Sterile Barrier System With Protective Packaging Inside	
Use By	$\subseteq$
Do Not Reuse	<u></u>
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Do Not Resterilize Guiding Catheter



(numeral represents quantity of units inside)

Do not use if package damaged

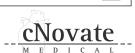
Manufacturer

CE Mark

Date of manufacture

Medical Device

Unique device identifier



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