FRONT SIDE OF PIECE

TOTAL LENGTH of piece is 37-15/16"

5-7/16" | 5-13/32" | 5-13/32" | 5-13/32" | 5-15/32" | 5-7/16" | 5-3/8"

6-3/4" | 6-3/4" | 6-11/16" | TOTAL HEIGHT of piece is 20-7/8"

Abbott

HI-TORQUE™ Guide Wire

PPL2124037 (2021-10-14)

Rx ONLY

2797

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any other device used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

Abbott Medical
3200 Lakeside Drive
Santa Clara, CA 95054 USA

CUSTOMER SERVICE
TEL: (800) 227-9902
FAX: (800) 681-8074
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Outside USA FAX: +1 951-914-2531

EC REP

Abbott Vascular International BVBA
Park Lane, Culliganlaan 2B
1831 Diegem, BELGIUM
TEL: + 32 2 714 14 11
FAX: + 32 2 714 14 12

Contents: one (1) pink pin forceps

Manufactured: computer controlled, in a vapor zero, vacuum / forces.

USO PREVISTO

Le guide sono destinate a facilitare la navigazione a través de anatomías vasculares con el fin de colocar dispositivos de diagnóstico y terapéuticos.

INDICACIONES DE USO

Indicado para facilitar la colocación de dispositivos intervencionistas basados en catéteres en la vasculatura periférica y coronaria. Las guías de 0,035" (0,89 mm) son útiles como compañeros durante una intervención para dirigir, avanzar y alinear la lesión que se desea tratar, proporcionar una vía dentro de la vasculatura y proporcionar soporte a los catéteres que se utilizan durante el procedimiento intervencionista y distinguir la vasculatura. Estas guías también se pueden utilizar para colocar y recuperar a través de oclusiones coronarias totales crónicas (OTC) de novo.

CONTRAINDICACIONES

No está indicado para su uso en la vasculatura cerebral.

ADVERTENCIAS

Este producto no está diseñado para su uso con dispositivos para atectomía. No se ha establecido la seguridad ni la eficacia del uso de este guía con HI-TORQUE™ con dispositivos de atectomía.

El uso de este dispositivo no está a la vista fuera de la etiqueta. Este dispositivo está diseñado y evaluado para SOLO USO DE UN PACIENTE. No volver a esterilizar. No se ha establecido la seguridad ni la eficacia de este dispositivo después de haber sido reprocesado para un nuevo uso.

Una vez dentro del sistema vascular, la guía debe manipularse bajo observación fluoroscópica para evitar daños en el vaso.

Una dispositivo lesa se recomienda en el extremo distal en un segmento de 20 cm de largo y se recubrimiento de politetrafluoroetileno (PTFE) hidrófobo en el segmento de 3 cm en las guías para guías de 190 cm y de 23 cm para las guías de 300 cm.

Consultar la sección PRECAUCIÓN PARA EL USO para obtener más información sobre cómo preparar y utilizar este dispositivo y ninguna de las funciones según la presión. El incumplimiento de las advertencias de este etiquetado puede provocar lesiones graves o la muerte. Consulte las instrucciones de uso para obtener información adversos graves.

No se han establecido la seguridad ni la eficacia de dispositivo, o se desconocen, en poblaciones especiales de pacientes (p. ej., lactantes y pacientes de edad avanzada).

Las personas con un historial conocido de alergias a cualquiera de los componentes de este dispositivo deben ser identificadas antes de su uso para evitar una reacción alérgica. Antes de usarlo en un paciente, se debe evaluar a esa sobre los materiales que contiene el dispositivo y se debe revisar exhaustivamente todos los antecedentes médicos del paciente para identificar cualquier posible alergia. Si se produce una reacción alérgica o sensible grave, una atención de urgencia, un evangelio de hipotensión, un recubrimiento de politetrafluoroetileno (PTFE), un recubrimiento de PTFE, adhesivo de sujeto y corazón.

Seguir absolutamente las instrucciones que se incluyen a continuación en los siguientes "No se debe" y "Para evitar posibles complicaciones graves" avisos. Estos avisos son importantes para el uso seguro de este dispositivo. Si no se siguen estas instrucciones, se podría producir daños en la guía, impidiendo la conexión con la extensión de guía IGC.

Guías HI-TORQUE con recubrimiento hidrófobo: evitar la elevación del recubrimiento hidrófobo. Evite el contacto con disolventes orgánicos, como el alcohol, que pueden dañar el recubrimiento hidrófobo. Antes de usar la guía, lave el dispositivo con solución salina normal.

Dispositivo con marcas radiopacas distales: algunas guías HI-TORQUE presentan marcas radiopacas distales. Estas marcas se pueden utilizar para ayudar a confirmar la posición de la marca, la longitud de la lesión y el tamaño del segmento medio. **No** una serie de marcas separadas, presentadas a la espiral, crean de referencia para determinar la longitud de las lesiones.

Guías HI-TORQUE con recubrimiento hidrófilo: consultar la etiqueta del producto para obtener información sobre el recubrimiento hidrófilo.

ESTERILIZACIÓN

Estéril: esterilizado con radiación mediante haz de electrones. Consultar el método de esterilización en la etiqueta del producto. Ningún filtro utilizado el aceite o el envase está diseño o dañado.

No volver a esterilizar las guías con oro de pureza mediante etil-plantilla, ya que no está diseñada para la esterilización y puede producir daños por uso. Los cambios en las características mecánicas, físicas o químicas producidos por una limpieza, esterilización o reutilización podrían provocar que el dispositivo no funcione según lo previsto. Una puesta podrá producir contaminación por la presencia de fluidos o tejidos corporales y podrá causar la segunda vez o el mantenimiento del dispositivo. La ausencia del etiquetado original puede dar lugar a usos indebidos y eliminar la trazabilidad. La ausencia del etiquetado original puede ocasionar daños al dispositivo, pérdida de esterilidad y riesgo de lesiones para el paciente o el usuario.

Tabla 3: Ergebnisse der primären Endpunkte: (Alle Führungsdrähte, MACE entfernt die ARC-Definition von MI)

Führungsdrahtgruppen/Gruppen	Führungsdraht Technische Erfolgsrate (TVS) %	Leistungsgrad	Untere Schranke des 1-seitigen 95% KI	p-Wert
Führungsdrahtbezogener Endpunkt	79,0 % (139/138)	[71,2 %, 85,5 %]	62,50 %	72,6 % < 0,0001
Begründung der Positionierung des Führungsdrahts im wahren distalen Lumen	89,9 % (134/138)	[83,6 %, 94,3 %]		
Nichtauftreten von MACE während der Hospitalisation**	89,1 % (123/138)	[82,7 %, 93,8 %]		

** Gestützt auf ARC MI.

Ergebnisse für den subdistalen Endpunkt und andere Ergebnisse:

In der ITT-Population für den Führungsdraht-Endpunkt ergaben sich folgende Ergebnisse:

- Der probedurchgangene Erfolg, der als probedurchgangener Erfolg und Nichtauftreten von MACE während der Hospitalisation definiert war, wurde bei 89,1 % (123/138) der Läsionen erreicht.
- Der probedurchgangene Erfolg, der als probedurchgangener Erfolg und Nichtauftreten von MACE während der Hospitalisation definiert war, wurde bei 89,1 % (123/138) der Läsionen erreicht.
- Die mittlere Dauer des Eingriffs (+/-SD) betrug 88,01 (+/-66,04) Minuten. Dies umfasste den Eingriffs vereinfa Kontrastmittel (+/-SD) betrug 278,72 (+/-151,02) ml und die mittlere Durchleuchtungszeit (+/-SD) betrug 24,72 (+/-19,26) Minuten.
- Der entsprechend der jeweiligen Durchgangsdrahtrick bezeichnete Erfolg war:
  - 89,1 % (123/138) bei Patienten mit einer Läsion, die mit einem Führungsdraht durchquert wurden
  - 0,0 % (0/0) bei Patienten, die nicht durchquert wurden
  - 100 % (15/15) bei Patienten, die mit einem Führungsdraht durchquert wurden und retrograden Durchquerer.
  - 100 % (7/7) bei Patienten, die mit einem Führungsdraht durchquert wurden

** Gestützt auf ARC MI.

Tabelle 5: Zusammenfassung der für die Durchquerung verwendeten Führungsdrähte – Auswertung auf Führungsdrahtebene

Führungsdrahtbezeichnung	Gesamtzahl der verwendeten Führungsdrähte	Zahl der Durchquerungen (% des Gesamtwerts)	Zahl der Durchquerungen	% Erfolg
Studienregime Drahte	258	212 (82,2 %)	84	39,6 %
Studienfremde Drahte	458	210 (45,9 %)	84	39,6 %

VORBEREITUNG FÜR DEN GEBRAUCH

Die Sterilverpackung, Materialien, Einschränkungen und bestimmungsgemäßen Verwendungen interventioneller Instrumente, die mit HI-TORQUE™ Führungsdrähten kompatibel sind, und den Gebrauchsanweisungen der jeweiligen Produkte zu entnehmen.

1. Das interventionelle Instrument entsprechend den Herstellerangaben vorbereiten. Das Führungsdrahtlumen vor der Einführung des Führungsdrahts spülen.
2. Um den Führungsdraht aus dem Dispenser herauszunehmen, den Dispenser in der Mitte des Schaftes, in der Nähe der Spitze und um den des Drahts um Ende der Windung suchen. Den den Draht greifen, um ihn vollständig aus dem Dispenser zu entnehmen. Sicherstellen, dass der Führungsdraht nicht geknickt oder beschädigt wurde.
3. Falls notwendig, kann die Formgebung des Drahtes mithilfe eines Formgebungsdorns erneut vorgenommen werden.

HI-TORQUE-Führungsdrähte mit hydrophiler Beschichtung

1. Vor dem Einführen des Führungsdrahts in den Führungsdraht-Dispenser physiologische Kochsalzlösung in den Ansatz des Dispensers mitgeben, um die gesamte Oberfläche des Führungsdrahts gründlich anzufeuchten.
2. Den Führungsdraht vorsichtig aus dem Dispenser entnehmen, wie oben im Abschnitt VORBEREITUNG FÜR DEN GEBRAUCH, Schritt 2, beschrieben. Wenn sich der Führungsdraht nicht einfach entnehmen lässt, dem empfohlenen Nachschlauchlösung erneut versuchen, den Führungsdraht zu entnehmen.
3. Den Führungsdraht nach der Einlumina nicht wieder in den Dispenser einführen.

Primary Endpoint

The intended indication for the HI-TORQUE PROGRESS and HI-TORQUE PILOT Guide Wire Systems is to facilitate navigation across vascular anatomies and to place diagnostic and therapeutic devices.

LIMITATIONS

The HI-TORQUE™ Guide Wires do not have a specific limitation in duration of use as are designed for vascular procedures that vary in duration depending on lesion complexity. Guide wires are intended to be used by trained physicians only. Guide wires are not for use in coronary arteries where emergency coronary artery bypass surgery may be required.

PRECAUTIONS

Guide wires are delicate instruments and should be handled carefully. Prior to use and when possible during the procedure, inspect the guide wire carefully for bends, kinks, or damage. Do not use damaged guide wires. Use caution when handling the device to avoid kinking or wound damage and buckle torque response.

Confirm the compatibility of the guide wire diameter with the interventional device before actual use.

Refer to the instruction on the label and the Instructions for Use to confirm the compatibility of the guide wire with the device to be used. Refer to the above recommendations when the use of non-manufacturer of thread wound wire guides, which can result in wound injury, such as, but not limited to, perforation, dissection, rupture, and thrombosis.

The safety and effectiveness of this device have not been established in the pediatric population.

The movement of the guide wire within the interventional device is an important feature of a steerable guide wire system, because it gives the user valuable tactile information about the vascular anatomy. Do not use the guide wire if it is not easily and gently steered. Advise your guide through anatomy that is tortuous, exercise caution when removing the guide wire from tortuous anatomy as a unit, and exchange the device for a new one to complete the procedure.

Never attach the torque device to the modified portion of the proximal end of the guidewire. Doing so may result in damage to the guidewire's performance.

HI-TORQUE Guide Wires with Hydrophilic Coating: Avoid abrasion of the hydrophilic coating. Do not wipe the coated portion of the guidewire with gauze pads soaked in cleaning chemicals or sharp-edged object. Manipulation, advancement, and / or withdrawal through a hemostasis valve may cause the hydrophilic coating to be removed from the guide wire. Use caution when attempt to remain in the vasculature. This in turn may lead to undesirable adverse events requiring additional intervention.

Guide wire functionality may be affected by the lubricity of the guide wire surface.

Do not soak the device for longer than 4 hours when the device is not in use. Avoid prolonged exposure to saline solution. Do not soak the device in any other solution. Prolonged exposure to saline solution may affect the performance of the hydrophilic coating on the device use.

The integrity and performance of the device coating can be negatively impacted by preparation with incompatible media or solvents. See note of the following important precautions:

- Avoid wiping the guide with dry gauze. This may damage the device coating.
- Avoid excessive wiping of the coated device.
- Avoid using alcohol, antiseptic solutions, or other solvents (e.g., use of medications and mixtures) to pre-treat the device because this may cause unpredictable changes to the coating which could negatively affect the safety and performance of the guide wire.

Attempting to alter the shape of devices by bending, twisting, or similar methods beyond what is described in the instructions for use may result in damage to the device that may not always be noticeable to the user.

One or more components of this device may contain the following substance defined as CMR 1B in accordance with Regulation (EC) No 1907/2006 (REACH): Chemical Abstracts Service (CAS) No. 7440-66-6: 92 No. 231-175-3.

Guide wires are single-use devices. Do not reuse devices manufactured from stainless steel where patients have been exposed to cardiac tissue, blood, or infectious agents. Reuse carries the potential risk of cross-contamination and / or device failure.

After use, this product may be a potential biohazard. Handle and dispose of it in accordance with accepted medical practice and applicable local, state, and federal laws and regulations.

Français / French

Guide HI-TORQUE™

Si un dispositif médical ne doit être utilisé que par des médecins formés aux techniques d'angiographie utilisé pour la dilatation coronaire transluminale percutanée (ACTP), et / ou dilatation transluminale percutanée (ATP).

LIRE ATTENTIVEMENT TOUTES LES INSTRUCTIONS AVANT L'EMPLOI. RESPECTER TOUTES LES AVERTISSEMENTS ET TOUTES LES PRÉCAUTIONS INDIQUÉES DANS CE MODE D'EMPLOI DANS TOUTE LA NOTICE. SINON, DES COMPLICATIONS.

Se reporter au mode d'emploi accompagnant les dispositifs interventionnels devant être utilisés avec le fil-guide HI-TORQUE™ pour connaître leurs indications d'utilisation, contre-indications et complications potentielles.

En Réunion des Caractéristiques de Sécurité et de Performances Cliniques (RCPC) pour les dispositifs de classe III et implantables, un résumé de la sécurité et de la performance clinique (RSPC) doit être rédigé. Pour le fil-guide HI-TORQUE™, le RSPC sera rédigé par l'emplacement de RCDPC après le lancement de la base de données européenne sur les dispositifs médicaux.

Selon l'art (Jurisca Bare Wire):

- Collegare il catetere guida, quindi inserire un introduttore per la guida attraverso la valvola emostatica collegata al catetere guida.
- Inserire con cautela la punta distale del fil-guida attraverso l'introduttore e nel catetere guida.
- Se si è fatto ricorso a un introduttore per fili guida metallici, assicurarsi che questo sia stato rimosso prima di entrare o manipolare ulteriormente il filo.
- Far avanzare il filo guida fino a introdurre per fili guida metallici, assicurarsi che questo sia stato rimosso prima di entrare o manipolare ulteriormente il filo.
- Il tergo deve inoltre essere rimosso prima di entrare o manipolare ulteriormente il filo.
- Mantenere il filo guida in posizione.

Guida fino a introdurre per fili guida metallici, assicurarsi che questo sia stato rimosso prima di entrare o manipolare ulteriormente il filo.

AVVERTENZE PER L'USO DEL DISPOSITIVO

Guida per fili guida HI-TORQUE™ sono destinati a fornire un percorso attraverso l'anatomia vascolare per il posizionamento di dispositivi diagnostici e terapeutici.

Guida per fili guida HI-TORQUE™ sono destinati a fornire un percorso attraverso l'anatomia vascolare per il posizionamento di dispositivi diagnostici e terapeutici.

TOTAL LENGTH of piece is 37-15/16"

3-3/8"

5-7/16"

5-15/32"

5-13/32"

5-13/32"

5-7/16"

6-3/4"

6-1/16"

6-3/4"

6-1/16"

TOTAL HEIGHT of piece is 29-7/8"

- MAOZ w het bitterbos zodanig ARC lift-productiviteitsblok vond plaats bij 10,87% (15/138 patiënten), waarbij 0,72% (1/138 patiënten) dikwijls gebaarde TLR (maxicirculatie diabetes) ontwierp. 10,87% (15/138 patiënten) Mi ondersteund en of geen gevallen van overlijden in het interieurs event. MAOZ M het bevestigde resultaat MI-productiviteitsblok vond plaats bij 2,17% (3/138 patiënten), waarbij 0,72% (1/138 patiënten) dikwijls gebaarde TLR (maxicirculatie diabetes) ontwierp. 2,17% (3/138 patiënten) Mi ondersteund en of geen gevallen van overlijden in het zakelijkste event. Gezondheidsrisico houdbare event MAOZ in bitterbos zijn gebaseerd op bestaand gebruik van MAOZ-bitterbos in de Europese Unie en de Verenigde Staten. Bij 10.000 patiënten per jaar is er 1 overlijden. Mi TLR, 200 gebaseerd op niet-hierarchische gebruikstijd.

Tabel 1: Overzicht van voordelen gebruikt voor doorsnee - Analyse op draadniveau

	Totale aantal gebruikte hierarchie	Aantal hierarchie gebruikt voor doorsnee	Aantal succes - hoogwaardig	% succes
Onderscheidenheidsplan	204	112 (54,9%)	64	30,5%
Niet-onderscheidenheidsplan	458	210 (45,9%)	64	30,5%

GEREEDMAKEN VOOR GEBRUIK

De centra-indicaties, waarschuwingen, tegenkrijgen en het beoogde gebruik van interventiebestanden dat compatibel zijn met Hi-TORQUE™ leveranciers, worden beschreven in de gebruiksaanwijzing die bij elk bestand wordt geleverd.

Combineer voorafgaand aan het gebruik de bestanden die u gaat gebruiken, waaronder het interventiebestandpad, zorgvuldig op markeerniveau. Niet gebruiken als het hulpmiddel beschadigd lijkt te zijn.

1. Maak het interventiebestandpad gereed volgens de gebruiksaanwijzing van het bestand. Spoel het interventiebestandpad voorafgaand het verwijderen.
2. Verwijder de onderlaklaat uit de houder door het gebaarde deel van de interventiebestand in de houder te schuiven tot de onderlaklaat op een deel van de kam uit het uiteinde van de houder komt. Houd de houder met één hand vast en trek de onderlaklaat met de andere hand. Beschuldig de bestandpad voorafgaand het verwijderen van de onderlaklaat uit de houder gereed.
3. Verwijder de onderlaklaat van de interventiebestandpad, waarschijnlijk en volgens een gebaarde bestandpad met een hoekpunt van de onderlaklaat. Gebruik geen modelbestandpad met scherpe randen.

Hi-TORQUE-voertuigen met hartvliesbuis dekking

1. Voordat de ventilatie uit de ventilatiepoort wordt gevormen, moet hydrofiele bestandpad worden gevormen met een hydrofiele bestandpad en een hydrofiele bestandpad om het gehele apparaat van de ventilatiepoort te vullen.
2. Neem de ventilatie voorzichtig uit de houder, zoals hierboven beschreven in stap 2 van GEREEDMAKEN VOOR GEBRUIK. Als de ventilatie niet gemakkelijk uit de houder komt, moet meer bestandpuw zuidpuntpad in de houder worden gevormen en opnieuw worden geprobeerd de ventilatie te verwijderen.
3. Steek de ventilatie met het lens in de ventilatie uit de ventilatie in de ventilatie.
4. Als het opperviak van de draad met hydrofiele deksjag opdoogt, kan het hydrofiele bestandpad worden gevormen met een droge doek om de ventilatie te vormen. Herschuldig de bestandpad zo vaak als nodig om de ventilatie te vormen door de ventilatie uit de houder verder gevormen.
5. Nadat de ventilatie uit het lichaam is verwijderd, moet de houder worden afgevormen met een in bestandpuw zuidpuntpad gedeeld ventilatiepad en niet worden gebruikt. Gebruik geen modelbestandpad met scherpe randen.

GEBRUIKSAANWIJZING

Over-the-wire-systemen (voorbijsteekgeschikt)

1. Voordat de ventilatie uit de ventilatiepoort wordt gevormen, moet hydrofiele bestandpad worden gevormen met een hydrofiele bestandpad en een hydrofiele bestandpad om het gehele apparaat van de ventilatiepoort te vullen.
2. Voer de ventilatie uit de ventilatiepoort uit de houder, zoals hierboven beschreven in stap 2 van GEREEDMAKEN VOOR GEBRUIK. Als de ventilatie niet gemakkelijk uit de houder komt, moet meer bestandpuw zuidpuntpad in de houder worden gevormen en opnieuw worden geprobeerd de ventilatie te verwijderen.
3. Steek de ventilatie met het lens in de ventilatie uit de ventilatie in de ventilatie.
4. Als het opperviak van de draad met hydrofiele deksjag opdoogt, kan het hydrofiele bestandpad worden gevormen met een droge doek om de ventilatie te vormen. Herschuldig de bestandpad zo vaak als nodig om de ventilatie te vormen door de ventilatie uit de houder verder gevormen.
5. Nadat de ventilatie uit het lichaam is verwijderd, moet de houder worden afgevormen met een in bestandpuw zuidpuntpad gedeeld ventilatiepad en niet worden gebruikt. Gebruik geen modelbestandpad met scherpe randen.

SLEUVENBESCHRIJVING

Over-the-wire-systemen (voorbijsteekgeschikt)

- Voer de ventilatie uit de ventilatiepoort uit de houder, zoals hierboven beschreven in stap 2 van GEREEDMAKEN VOOR GEBRUIK. Als de ventilatie niet gemakkelijk uit de houder komt, moet meer bestandpuw zuidpuntpad in de houder worden gevormen en opnieuw worden geprobeerd de ventilatie te verwijderen.
- Steek de ventilatie met het lens in de ventilatie uit de ventilatie in de ventilatie.
- Als het opperviak van de draad met hydrofiele deksjag opdoogt, kan het hydrofiele bestandpad worden gevormen met een droge doek om de ventilatie te vormen door de ventilatie uit de houder verder te vormen.
- Nadat de ventilatie uit het lichaam is verwijderd, moet de houder worden afgevormen met een in bestandpuw zuidpuntpad gedeeld ventilatiepad en niet worden gebruikt. Gebruik geen modelbestandpad met scherpe randen.

Rapid Exchange-systemen (Sneltransport)

- Voer de ventilatie uit de ventilatiepoort uit de houder, zoals hierboven beschreven in stap 2 van GEREEDMAKEN VOOR GEBRUIK. Als de ventilatie niet gemakkelijk uit de houder komt, moet meer bestandpuw zuidpuntpad in de houder worden gevormen en opnieuw worden geprobeerd de ventilatie te verwijderen.
- Steek de ventilatie met het lens in de ventilatie uit de ventilatie in de ventilatie.
- Als het opperviak van de draad met hydrofiele deksjag opdoogt, kan het hydrofiele bestandpad worden gevormen met een droge doek om de ventilatie te vormen door de ventilatie uit de houder verder te vormen.
- Nadat de ventilatie uit het lichaam is verwijderd, moet de houder worden afgevormen met een in bestandpuw zuidpuntpad gedeeld ventilatiepad en niet worden gebruikt. Gebruik geen modelbestandpad met scherpe randen.

Sekonder Systemen Nabitas vir Rapid Exchange

- Maak bestandpad gereed volgens de gebruiksaanwijzing van het bestand. Spoel het interventiebestandpad voorafgaand het verwijderen.
- Verwijder de onderlaklaat uit de houder door het gebaarde deel van de interventiebestand in de houder te schuiven tot de onderlaklaat op een deel van de kam uit het uiteinde van de houder komt. Houd de houder met één hand vast en trek de onderlaklaat met de andere hand. Beschuldig de bestandpad voorafgaand het verwijderen van de onderlaklaat uit de houder gereed.
- Verwijder de onderlaklaat van de interventiebestandpad, waarschijnlijk en volgens een gebaarde bestandpad met een hoekpunt van de onderlaklaat. Gebruik geen modelbestandpad met scherpe randen.
- Maak de ventilatie gereed door de ventilatiepoort te verwijderen. Spoel het interventiebestandpad voorafgaand het verwijderen.
- Steek de ventilatie met het lens in de ventilatie uit de ventilatie in de ventilatie.
- Als het opperviak van de draad met hydrofiele deksjag opdoogt, kan het hydrofiele bestandpad worden gevormen met een droge doek om de ventilatie te vormen door de ventilatie uit de houder verder te vormen.
- Nadat de ventilatie uit het lichaam is verwijderd, moet de houder worden afgevormen met een in bestandpuw zuidpuntpad gedeeld ventilatiepad en niet worden gebruikt. Gebruik geen modelbestandpad met scherpe randen.

Ελληνικά / Greek

Συχνότερες οδηγός HI-TORQUE™

ΠΡΟΣΟΧΗ

Αυτή η γραφή φαγητού κάνει ορισμένες ιατρικές συσκευές ανενεργές ή ανίκανες για σωστή λειτουργία. Ο γιατρός πρέπει να γνωρίζει τους κινδύνους και τα οφέλη της συσκευής πριν από τη χρήση. Ακολουθήστε τις οδηγίες χρήσης που παρέχονται με τη συσκευή.

ΠΕΡΙΓΡΑΦΗ

Η γραφή φαγητού χρησιμοποιεί τεχνολογία μικροκυμάτων για τη θέρμανση και τη μαγείρεμα τροφίμων. Η γραφή φαγητού έχει σχεδιαστεί για να θερμαίνει, να μαγειρεύει, να στεγνώνει και να ψήνει τρόφιμα για ανθρώπινη κατανάλωση. Μην χρησιμοποιείτε τη γραφή φαγητού για τη θέρμανση μη τροφίμων ή υγρών, όπως βιομηχανικά ή εργαστηριακά χημικά.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ: ΓΙΑ ΝΑ ΑΠΟΦΥΓΕΤΕ ΤΟΝ ΤΡΑΥΜΑΤΙΣΜΟ ΣΤΟΥΣ ΑΝΘΡΩΠΟΥΣ, ΤΗΝ ΖΗΜΙΑ ΣΤΑ ΖΩΑ ΚΑΙ ΤΗ ΒΛΑΒΗ ΣΤΗ ΣΥΣΚΕΥΗ:

- Μην χρησιμοποιείτε τη γραφή φαγητού για αποθήκευση. Αυτό μπορεί να προκαλέσει ανεπιθύμητη έκθεση σε μικροκύματα.
- Μην χρησιμοποιείτε τη γραφή φαγητού εάν η πόρτα δεν κλείνει σωστά.
- Μην τοποθετείτε εύφλεκτα υλικά κοντά στη γραφή φαγητού.
- Μην τοποθετείτε τα χέρια σας μεταξύ της πόρτας και του μπροστινού μέρους της γραφής φαγητού κατά το κλείσιμο της πόρτας.
- Μην καθαρίζετε τη γραφή φαγητού με πίδακα νερού.
- Μην χρησιμοποιείτε τη γραφή φαγητού εάν έχει υποστεί ζημιά.
- Μην χρησιμοποιείτε τη γραφή φαγητού εάν η πόρτα, οι μεντεσέδες ή οι μάνδαλα είναι σπασμένα ή χαλαρ

TOTAL LENGTH of piece is 37-15/16"

5-1/2"

5-7/16"

5-3/8"

5-7/16"

5-3/8"

5-3/8"

6-5/8"

6-13/16"

TOTAL HEIGHT of piece is 13- 7/16"

6-5/8"

6-13/16"

FRONT SIDE OF PIECE

HI-TORQUE™ Guide Wire

PR1212403T-01 (2021-10-14)

℞ ONLY

CE 2797

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED IN THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

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English

HI-TORQUE™ Guide Wire

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

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DESCRIPTION

This instructions for Use pertains to the HI-TORQUE PILOT™ 50, HI-TORQUE PILOT 150, and HI-TORQUE PILOT 200 Guide Wires.

Table 1

Product Name	Basic UDI-DI	Identification Color
HI-TORQUE PILOT 50 Guide Wire	(01)10400003905545	Fashion-foam
HI-TORQUE PILOT 150 Guide Wire		Fashion-foam
HI-TORQUE PILOT 200 Guide Wire		Fashion-foam

The HI-TORQUE™ PILOT Guide Wires are medical devices that are intended for use in PCA and PTA to treat patients with coronary or peripheral artery disease as specified in the Indications section of these instructions. These devices are designed to guide catheters to coronary or peripheral arteries and have a hydrophilic distal tip. Refer to the product labeling for specific dimensions (e.g., wire length, diameter, and tip configuration).

Coronary guide wires facilitate PTCA and PTA, which offer clinical benefits for treatment of coronary artery disease (CAD) and other forms of peripheral vascular disease.

HI-TORQUE Extendable Guide Wires: Some HI-TORQUE Guide Wires have a modified proximal end that permits the attachment of the Rotating Hemostasis Valve to the Wire Extension. Refer to the Rotating Hemostasis Valve instructions for Use for information on how to attach and remove the Wire Extension to and from the Guide Wire. Replacing a short wire with another, while maintaining guide wire position in the anatomy. After the interventional procedure is completed, the Guide Wire may be detached and removed from the patient, or left in the coronary or peripheral vasculature.

.014" (0.36 mm) HI-TORQUE Guide Wires with Proximal Markers: Brachial and femoral markers located at the proximal segment of the 0.014" (0.36 mm) guide wires, aid in gauging guide wire position relative to the guiding catheter tip when using fluro with contrast. The markers are 1 cm in length and are separated by a distance of at least 90 cm (inside) or 100 cm (femoral) long.

HI-TORQUE Guide Wires with Distal Radiopaque Markers: Some HI-TORQUE Guide Wires have a radiopaque distal segment, 3 cm in length, that aids in fluoroscopy to determine the placement and location of the catheter. Markers are separated by the following designation: ■ ■ series of spaced markers are provided proximal to the coil segment of the 3 cm tapering tender length.

HI-TORQUE Guide Wires with Hydrophilic Coating: Refer to the product label for specific hydrophilic coating.

HOW SUPPLIED

Sterile – Sterilized with electron-beam radiation. Refer to the product label for the sterilization expiration date. Do not use if the package is open or damaged.

This single-use device cannot be resoaked or resterilized. Do not resoak or resterilize because of the potential risk of infection to the patient. Resoaking or resterilization may compromise the integrity of the design and / or materials, leading to device malfunction and / or patient injury. Resoaking or resterilization may also result in performance of the device being altered and / or its mechanical characteristics affected. Absence of original packaging may lead to device damage, loss of sterility, and / or failure to perform as intended and / or user injury.

Contents – One (1) guide wire per pouch.

INTENDED PURPOSE

Guide Wires are intended to facilitate navigation across vascular anatomies and structures in order to deliver diagnostic and therapeutic devices.

INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA and PTA. The Guide Wire is for use in the coronary and peripheral vessels for diagnostic procedures. The guide wire may be used to reach and cross a target lesion, provide a pathway within the vessel structure, facilitate the substitution of one diagnostic or therapeutic device for another, and support the delivery of these devices. The guide wire also be used to cross or accept in crossing via cross chronic total coronary occlusions (CTO).

CONTRAINDICATIONS

There are no known contra-indications.

WARNINGS

This device is not designed for use with atherectomy devices. The safety and effectiveness of the use of this HI-TORQUE™ Guide Wire with atherectomy devices is unknown.

The lubricous coating is essential to the Guide Wire's performance. Do not touch the coated portion of the guide wire with fingers, gauze pads, or other objects. Avoid contact with abrasive surfaces. Failure to observe these precautions may cause unnecessary damage to the coating which could negatively affect the safety and performance of the guide wire.

Attempting to alter the shape of wires to fit the anatomy may damage the wire. Use only instructed methods may compromise the coating integrity, and that damage to the coating may affect the safety and performance of the guide wire.

Do not use the guide wire if damage is noted. Damage may be characterized by a bent, kinked, or fractured shaft, this a bifurcated vessel. Use of this technique involves additional patient risks, including the risk that the wire may become difficult to remove.

Consider that if a secondary wire is placed in a bifurcated vessel, this wire may need to be retracted prior to stent deployment, because there is additional risk that the secondary wire may become entrapped between the vessel wall and the stent.

PRECAUTIONS

Store in a dry, dark, cool place.

INTENDED PURPOSE

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INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA and PTA. The Guide Wire is for use in the coronary and peripheral vessels for diagnostic procedures. The guide wire may be used to reach and cross a target lesion, provide a pathway within the vessel structure, facilitate the substitution of one diagnostic or therapeutic device for another, and support the delivery of these devices. The guide wire also be used to cross or accept in crossing via cross chronic total coronary occlusions (CTO).

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Attempting to alter the shape of wires to fit the anatomy may damage the wire. Use only instructed methods may compromise the coating integrity, and that damage to the coating may affect the safety and performance of the guide wire.

Do not use the guide wire if damage is noted. Damage may be characterized by a bent, kinked, or fractured shaft, this a bifurcated vessel. Use of this technique involves additional patient risks, including the risk that the wire may become difficult to remove.

Consider that if a secondary wire is placed in a bifurcated vessel, this wire may need to be retracted prior to stent deployment, because there is additional risk that the secondary wire may become entrapped between the vessel wall and the stent.

ADVERSE EVENTS

Potential adverse events associated with use of this device may include the following, but are not limited to:

- Allergic reaction or hypersensitivity to latex, contrast agent, anesthetic, device materials, or medications
- Perforation
- Dissection
- Thrombus
- Stenosis / restenosis
- Occlusion
- Vessel spasm
- Myocardial infarction
- Embolism
- Arrhythmia
- Aneurysm / pseudoaneurysm
- Infection
- Hypotension / hypertension
- Hemorrhage
- Hypotension
- Death
- Surgical intervention

LIMITATIONS

The HI-TORQUE™ Guide Wires do not have a specific limitation in duration of use but are designed for vascular procedures that vary in duration depending on lesion complexity.

Percutaneous transluminal coronary angioplasty (PTCA) should only be performed at hospitals with cardiac surgery backup support (CABG) surgery is available.

PRECAUTIONS

Guide wires are delicate instruments and should be handled carefully. Prior to use and when possible during the procedure, inspect the guide wire carefully for bends, kinks, or damage. If any of these conditions are noted, do not use the guide wire. Damage to the guide wire may result in vessel damage and / or requires additional intervention.

Confirm the compatibility of the guide wire diameter in the distal true lumen before actual use.

Refer to the indication on the label and the instructions for Use to confirm the recommended diameter of the guide wire. Failure to use the guide wire within the above recommendation may result in the inadvertent dissection of blood vessel wall or perforation may result in vessel injury such as, but not limited to, perforation, dissection, rupture, thrombosis.

Refer to PREPARATION FOR USE sections for further information on how to prepare and use this device to ensure it performs as intended. **Failure to abide by the warnings in this section may result in injury to the patient, use delay, which may necessitate intervention, or result in another adverse event.**

The safety and effectiveness of the device have not been established, or in unknown, vessel regions other than those specifically indicated.

Persons with known history of allergies to any of the components of this device should be identified prior to use. Exposure to the device may result in injury to the patient, further planned or unplanned to the materials contained in the device and a thorough history of allergies must be discussed. This device contains phalate-free polyurethane, silicone, nickel, titanium, stainless steel, tungsten, polyimide, polytetrafluoroethylene (PTFE) coating, PTFE coating, gold, platinum, and synthetic.

Carefully observe the instructions under "Do Not" and "Do" below. Failure to do so may result in vessel trauma, guide wire damage, guide wire tip separation, or short damage. If resistance is observed at any time, determine the cause under fluoroscopy and take remedial action as needed. Use the next suitable guide wire for the lesion being treated.

Do Not

- Push, torque, withdraw or torque a guide wire that meets resistance.
- Torque a guide wire if the tip becomes entrapped within the vasculature.
- Use a guide wire if the tip has been damaged.
- Display a stent until the stent and wire between the vessel wall and the stent.

Do

- Gently re-withdraw the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Use the radiopaque marker of the stent when under fluoroscopy before attempting to retract the guide wire.
- Observe the wire under fluoroscopy for tip buckling, which is a sign of entrapment.
- Maintain continuous flush while removing and recharging the guide wire to prevent air from entering the catheter system.
- Use caution when introducing the guide wire into and / or trauma.
- When contralateral the guide wire to confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Use caution when introducing the guide wire into and / or through a previously implanted stent, or through tight stenosis, into a bifurcated vessel. Use of this technique involves additional patient risks, including the risk that the wire may become difficult to remove.
- Consider that if a secondary wire is placed in a bifurcated vessel, this wire may need to be retracted prior to stent deployment, because there is additional risk that the secondary wire may become entrapped between the vessel wall and the stent.

Primary Endpoint

The intended indication for the HI-TORQUE PROGRESS and HI-TORQUE PILOT Guide Wires is for use in the coronary and peripheral vessels for diagnostic procedures. Therefore, the guide wire-related primary endpoint was based on confirmation of placement of any guide wire in the distal true lumen per angiographic core lab, and was not restricted to crossing of the study guide wire only.

The guide wire-related primary endpoint was successful recanalization of the CTO defined as:

1. Confirmation of placement of the guide wire in the distal true lumen and
2. Absence of in-hospital MACE

This guide wire-related endpoint was assessed among the first 136 subjects, where any attempted wire made to cross the target lesion with HI-TORQUE PROGRESS or HI-TORQUE PILOT 150 wires.

Statistical Analysis

This guide wire-related primary endpoint of successful recanalization of the CTO was compared with a performance goal of 70% success rate. The 70% success rate is based on the clinical practice guidelines and assumed to be the minimum success rate that would be considered successful to be the first 136 enrolled subjects, which are attempted with the HI-TORQUE PROGRESS or HI-TORQUE PILOT 150 Guide Wires. Assuming the HI-TORQUE PROGRESS or HI-TORQUE PILOT 150 Guide Wires achieved a success rate of 70%, the lower 95% CI bound for the success rate from the 2 sided exact binomial test will be 61%, which is greater than the performance goal of 60%. Therefore, the power of this comparison is approximately 82% (Power = 1 - Type II error = 1 - 0.18 = 0.82) with a Type I error of 0.05 (2 sided).

Table 2. Guide Wire Characteristics

Guide Wire Characteristics	HI-TORQUE PROGRESS™ 300 Guide Wire (mm)	HI-TORQUE PROGRESS™ 500 Guide Wire (mm)	HI-TORQUE PROGRESS™ 700 Guide Wire (mm)
Study Guide wire Used (Subject Based)	100.0% (138/138)		
2 study wire used	25.1% (35/139)		
3 study wires used	4.3% (6/139)		
4 study wire used	1.4% (2/139)		
Other Recanalization Device (Subject Based)	36.2% (50/138)		
1 reversible/non-reversible	10.9% (15/138)		
2 or more reversible/non-reversible devices	10.9% (15/138)		
Study guide wire successfully crossed lesion	99.3% (136/137)		
Study guide wire successfully crossed lesion (CTO)	99.3% (136/137)		
Other Recanalization Device crossed lesion	50.0% (68/136)		
Tip Shape (Study Guide Wire Used)			
Distal Curve	34.9% (95/258)		
Straight	62.2% (172/258)		
Other reasons	1.9% (5/258)		
Guide Wire Diameter Used (Subject Based)			
Angiographic Core Lab	81.9% (288/174)		
Angiographic crossing (or mischaracterized method)	19.8% (67/414)		
Core Lab	18.2% (74/174)		
Kiruckie wire	1.9% (6/414)		
Radar wire	0.0% (0/414)		
Retrograde Only	13.7% (45/414)		
Retrograde Only (Core Lab)	0.0% (0/414)		
Kiruckie wire	1.1% (5/414)		
Combined Antegrade and Retrograde	2.3% (11/414)		

Gin sö lär:

- För in och dra ut klaven försiktigt.
- Använd interventionsmedicinsk slutgiltig markör för att bekräfta placeringen.
- Använd röntgenmarkören på den interventionella klovan innan ledaren, flytta den.
- Observera ledaren under fluoroskopi för att se om spetsen böjs, vilket är ett tecken på att fastna.
- Spola kontinuerligt när ledaren dras tillbaka och när den återmatas för att förhindra att luft kommer in i kärlsystemet.
- Var försiktig när du för in ledaren och / eller genom en stent som inte är endotelialt, eller genom stenos, in i en förgrenad kärl. Användning av denna teknik innebär ytterligare risker för patienten, inklusive risken att ledaren kan bli svår att ta bort.
- Tänk på att om en sekundär ledare placeras i ett förgrenat kärl kan denna ledare behöva dras tillbaka innan stenten sätts in, eftersom det finns en ytterligare risk för att den sekundära ledaren kan fastna mellan kärlväggen och stenten.

Primary Endpoint

The intended indication for the HI-TORQUE PROGRESS and HI-TORQUE PILOT Guide Wires is for use in the coronary and peripheral vessels for diagnostic procedures. Therefore, the guide wire-related primary endpoint was based on confirmation of placement of any guide wire in the distal true lumen per angiographic core lab, and was not restricted to crossing of the study guide wire only.

The guide wire-related primary endpoint was successful recanalization of the CTO defined as:

1. Confirmation of placement of the guide wire in the distal true lumen and
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This guide wire-related endpoint was assessed among the first 136 subjects, where any attempted wire made to cross the target lesion with HI-TORQUE PROGRESS or HI-TORQUE PILOT 150 wires.

Statistical Analysis

This guide wire-related primary endpoint of successful recanalization of the CTO was compared with a performance goal of 70% success rate. The 70% success rate is based on the clinical practice guidelines and assumed to be the minimum success rate that would be considered successful to be the first 136 enrolled subjects, which are attempted with the HI-TORQUE PROGRESS or HI-TORQUE PILOT 150 Guide Wires. Assuming the HI-TORQUE PROGRESS or HI-TORQUE PILOT 150 Guide Wires achieved a success rate of 70%, the lower 95% CI bound for the success rate from the 2 sided exact binomial test will be 61%, which is greater than the performance goal of 60%. Therefore, the power of this comparison is approximately 82% (Power = 1 - Type II error = 1 - 0.18 = 0.82) with a Type I error of 0.05 (2 sided).

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Guide Wire Characteristics	HI-TORQUE PROGRESS™ 300 Guide Wire (mm)	HI-TORQUE PROGRESS™ 500 Guide Wire (mm)	HI-TORQUE PROGRESS™ 700 Guide Wire (mm)
CART	52.2% (72/138)		
Reverse CART	2.1% (16/414)		
Kissing wire technique	0.0% (0/414)		
Other	2.1% (16/414)		
Subdistal	1.1% (5/414)		
Antegrade dissection and reentry method	0.9% (4/414)		
Septal Approach utilized	1.1% (4/414)		

- The number of guide wires includes the number of study guide wires, non-study guide wires, and other devices such as balloons. The denominators are total study guide wires, non-study guide wires, and other devices used in the procedures that were performed.
- Subject 24409-001 had a guide wire successfully crossing the lesion, but the reason for use of the guide wire was not reported.
- The crossing method "Other" was described "Retrograde Only" as the Crossing method, but did not provide the details.
- * The crossing method analysis was done on study guide wire, non-study guide wire, and other recanalization devices.

Baseline Subject Characteristics

The HI-TORQUE PROGRESS and HI-TORQUE PILOT Guide Wires were evaluated in a mean (±SD) age of 61.11 (±10.74) years, 86.0% (119/138) were male, and the mean (±SD) BMI was 28.4 (±4.6) kg/m2 (322/1,130). A total of 96.4% (133/138) of the subjects were dyslipidemic, 92.7% (128/138) were hypertensive, 39.9% (55/138) were smokers, 26.8% (37/138) had a prior MI, 25.4% (35/138) had a prior PCI, 15.2% (21/138) had a prior CABG, 13.8% (19/138) had a history of CHF, 25.9% (35/135) of the diabetic subjects were insulin and hypoglycemic medication. Cardiac history was similar to the 2015 ACC/AHA/SCAI CTO guidelines subjects had myocardial infarction (MI) (26.8% (37/138)), prior percutaneous coronary intervention (PCI) (25.4% (35/138)), prior coronary artery bypass graft surgery (CABG) (15.2% (21/138)), and 29% (39/135) of the subjects had history of smoking within the last month prior to procedure.

Baseline Target Lesion Characteristics

The HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 Guide Wires were evaluated in 138 CTO subjects. Of the lesions treated, 41.9% (58/138) were located in the left anterior descending (LAD) artery, 42.8% (59/138) were located in the left circumflex artery (LCX), and 51.4% (71/138) were located in the right coronary artery (RCA). The mean (±SD) lesion length was 28.3% (±15.1) mm, and the mean (±SD) lesion volume was 1,134.7% (±1,134.7) mm3. The mean (±SD) contrast volume used during the procedure was 279.72 (± 151.02) mL and the mean (±SD) fluoroscopy time was 81.6 (± 46.4) minutes.

Primary Endpoint Results

The primary endpoint was successful recanalization of the CTO and achieved in 79.0% (109/138) of the subjects with a lower bound of the one-sided 95% CI of 72.8%. The individual criteria for successful recanalization included: confirmation of placement of the guide wire in the distal true lumen per angiographic core lab, and absence of in-hospital MACE (Major Adverse Cardiac Events) (Cardiac Death, MI, and TLR). Of the 138 HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 Guide Wires attempted, 136 (131/138) of the subjects, there were 110 HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 Guide Wires that successfully crossed the lesion (79.7%). Of the 136 subjects that had successful lesion crossing, 109 (80.1%) had successful recanalization. Be sure to flush the guide wire thoroughly before and after use. Failure to do so may result in thrombus formation. Use only sterile saline solution for flushing.

Table 3. HI-TORQUE Guide Wires with Hydrophilic Coating

Guide Wire	Total Number of Guide Wires Used	Number Used for Successful Purpose of Crossing (% of Total)	Number Successfully Crossed	% Success
Study Wires	258	84	84	39.6%
Non-study Wires	456	210 (45.6%)	84	30.5%

PREPARATION FOR USE

Contraindications, warnings, limitations, and intended uses of interventional devices compatible with HI-TORQUE™ Guide Wires are described in the instructions supplied with the respective devices.

Prior to the interventional procedure, examine carefully all equipment to be used, including the guide wire, for defects. Do not use if the device is damaged or defective.

1. Prepare the interventional device and guiding catheter in accordance with the instructions for Use. Be sure to flush the guiding catheter thoroughly.
2. Remove the guide wire from the dispenser by pushing the exposed section of the guide wire into the dispenser until the guide wire tip and a portion of the core exit the end of the hoop. Grasp the guide wire tip and pull the guide wire out of the dispenser. Do not pull the guide wire out of the dispenser by the proximal end. Doing so may damage the guide wire.
3. Flush the guide wire thoroughly with heparinized saline solution before introducing it into the guiding catheter.

HI-TORQUE Guide Wires with Hydrophilic Coating

1. Before removing the guide wire from the dispenser, inspect normal saline into the hub of the interventional device to thoroughly wet the complete surface of the guide wire.
2. Carefully remove the guide wire from the dispenser, as suggested above in PREPARATION FOR USE, step 2. If the guide wire cannot be removed easily from the dispenser, inject more normal saline into the hub of the dispenser.
3. Do not reinsert the guide wire into the dispenser once it has been removed.

Gin sö lär:

- För in och dra ut klaven försiktigt.
- Använd interventionsmedicinsk slutgiltig markör för att bekräfta placeringen.
- Använd röntgenmarkören på den interventionella klovan innan ledaren, flytta den.
- Observera ledaren under fluoroskopi för att se om spetsen böjs, vilket är ett tecken på att fastna.
- Spola kontinuerligt när ledaren dras tillbaka och när den återmatas för att förhindra att luft kommer in i kärlsystemet.
- Var försiktig när du för in ledaren och / eller genom en stent som inte är endotelialt, eller genom stenos, in i en förgrenad kärl. Användning av denna teknik innebär ytterligare risker för patienten, inklusive risken att ledaren kan bli svår att ta bort.
- Tänk på att om en sekundär ledare placeras i ett förgrenat kärl kan denna ledare behöva dras tillbaka innan stenten sätts in, eftersom det finns en ytterligare risk för att den sekundära ledaren kan fastna mellan kärlväggen och stenten.

Table 3. Guidewire Characteristics

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- Observera ledaren under fluoroskopi för att se om spetsen böjs, vilket är ett tecken på att fastna.
- Spola kontinuerligt när ledaren dras tillbaka och när den återmatas för att förhindra att luft kommer in i kärlsystemet.
- Var försiktig när du för in ledaren och / eller genom en stent som inte är endotelialt, eller genom stenos, in i en förgrenad kärl. Användning av denna teknik innebär ytterligare risker för patienten, inklusive risken att ledaren kan bli svår att ta bort.
- Tänk på att om en sekundär ledare placeras i ett förgrenat kärl kan denna ledare behöva dras tillbaka innan stenten sätts in, eftersom det finns en ytterligare risk för att den sekundära ledaren kan fastna mellan kärlväggen och stenten.

Table 3. Guidewire Characteristics

Guidewire Characteristics	HI-TORQUE PROGRESS™ 300 Guidewire (mm)	HI-TORQUE PROGRESS™ 500 Guidewire (mm)	HI-TORQUE PROGRESS™ 700 Guidewire (mm)
CART	52.2% (72/138)		
Reverse CART	2.1% (16/414)		
Kissing wire technique	0.0% (0/414)		
Other	2.1% (16/414)		
Subdistal	1.1% (5/414)		
Antegrade dissection and reentry method	0.9% (4/414)		
Septal Approach utilized	1.1% (4/414)		

- The number of guide wires includes the number of study guidewires, non-study guidewires, and other devices such as balloons. The denominators are total study guidewires, non-study guidewires, and other devices used in the procedures that were performed.
- Subject 24409-001 had a guidewire successfully crossing the lesion, but the reason for use of the guidewire was not reported.
- The crossing method "Other" was described "Retrograde Only" as the Crossing method, but did not provide the details.
- * The crossing method analysis was done on study guidewire, non-study guidewire, and other recanalization devices.

Baseline Subject Characteristics

The HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 guidewires were evaluated in a mean (±SD) age of 61.11 (±10.74) years, 86.0% (119/138) were male, and the mean (±SD) BMI was 28.4 (±4.6) kg/m2 (322/1,130). A total of 96.4% (133/138) of the subjects were dyslipidemic, 92.7% (128/138) were hypertensive, 39.9% (55/138) were smokers, 26.8% (37/138) had a prior MI, 25.4% (35/138) had a prior PCI, 15.2% (21/138) had a prior CABG, 13.8% (19/138) had a history of CHF, 25.9% (35/135) of the diabetic subjects were insulin and hypoglycemic medication. Cardiac history was similar to the 2015 ACC/AHA/SCAI CTO guidelines subjects had myocardial infarction (MI) (26.8% (37/138)), prior percutaneous coronary intervention (PCI) (25.4% (35/138)), prior coronary artery bypass graft surgery (CABG) (15.2% (21/138)), and 29% (39/135) of the subjects had history of smoking within the last month prior to procedure.

Baseline Target Lesion Characteristics

The HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 guidewires were evaluated in 138 CTO subjects. Of the lesions treated, 41.9% (58/138) were located in the left anterior descending (LAD) artery, 42.8% (59/138) were located in the left circumflex artery (LCX), and 51.4% (71/138) were located in the right coronary artery (RCA). The mean (±SD) lesion length was 28.3% (±15.1) mm, and the mean (±SD) lesion volume was 1,134.7% (±1,134.7) mm3. The mean (±SD) contrast volume used during the procedure was 279.72 (± 151.02) mL and the mean (±SD) fluoroscopy time was 81.6 (± 46.4) minutes.

Primary Endpoint Results

The primary endpoint was successful recanalization of the CTO and achieved in 79.0% (109/138) of the subjects with a lower bound of the one-sided 95% CI of 72.8%. The individual criteria for successful recanalization included: confirmation of placement of the guidewire in the distal true lumen per angiographic core lab, and absence of in-hospital MACE (Major Adverse Cardiac Events) (Cardiac Death, MI, and TLR). Of the 138 HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 guidewires attempted, 136 (131/138) of the subjects, there were 110 HI-TORQUE PROGRESS and HI-TORQUE PILOT 150 guidewires that successfully crossed the lesion (79.7%). Of the 136 subjects that had successful lesion crossing, 109 (80.1%) had successful recanalization. Be sure to flush the guidewire thoroughly before and after use. Failure to do so may result in thrombus formation. Use only sterile saline solution for flushing.

Table 3. HI-TORQUE Guidewires with Hydrophilic Coating

Guidewire	Total Number of Guidewires Used	Number Used for Successful Purpose of Crossing (% of Total)	Number Successfully Crossed	% Success
Study Wires	258	84	84	39.6%
Non-study Wires	456	210 (45.6%)	84	30.5%

FÖRBEREDELSE FÖR ANVÄNDNING

Se den bruksanvisning som medföljer respektive interventionsverktyg som är kompatibelt med HI-TORQUE™ Guide Wires om kontraindikationer, varningar, begränsningar och avsedd användning.

Undersök noggrant all utrustning som ska användas, inklusive ledaren, för defekter. Använd inte om produkten är skadad eller defekt.

1. Förbered det terapeutiska instrumentet enligt bruksanvisningen i anvisningen. Var noga med att spola ledarens lumen innan ledaren förs in.
2. Ta ut ledaren ur dispensern genom att trycka in den exponerade delen av ledaren i dispensern tills ledarens spets och en del av kärnan kommer ut ur öppna änden. Ta tag i ledarens spets och dra ut den ur dispensern. Använd inte ledarens proximala ände för att dra ut den ur dispensern. Om detta görs kan ledaren skadas.
3. Vid behov kan ledaren spola försiktigt hemsa och på avsedvattenlösning innan den förs in i ledaren.

HI-TORQUE Guide med hydrofil beläggning

1. Innan ledaren tas bort från dispensern ska den undersökas med normal saltlösning för att helt befukta ledarens hela yta.
2. Ta försiktigt ut ledaren ur dispensern på det sätt som beskrivs under FÖRBEREDELSE FÖR ANVÄNDNING, steg 2. Om ledaren inte enkelt kan tas ur dispensern, injicera mer fysiologisk saltlösning och försök ta ledaren på nytt.
3. För inte in ledaren i dispensern på nytt efter den har tagits ut.
4. Om det är nödvändigt ska ledaren spolas och formas om innan den förs in i HI-TORQUE-ledaren och genom ledaren.
5. Använd endast medicinsk kontrastvätska.

Gin sö lär:

- Använd inte ledaren om den har skadats.
- Använd inte ledaren om den har böjts eller knutits.
- Använd inte ledaren om den har tappats.
- Ta bort ledaren försiktigt och långsamt.
- Undvik att ledaren och/eller interventionsverktyget kommer i kontakt med slipande material.
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Undersök noggrant all utrustning som ska användas, inklusive ledaren, för defekter. Använd inte om produkten är skadad eller defekt.

1. Förbered det terapeutiska instrumentet enligt bruksanvisningen i anvisningen. Var noga med att spola ledarens lumen innan ledaren för

TOTAL LENGTH of piece is 37-15/16"

5-1/2" | 5-7/16" | 5-3/8" | 5-7/16" | 5-7/16" | 5-3/8" | 5-3/8"

TOTAL HEIGHT of piece is 13- 7/16"

6-5/8" | 6-13/16" | 6-5/8"

HI-TORQUE™ Guide Wire

PR1224037-02 (2021-10-14)

℞ ONLY

CE 2797

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN EQUIPMENT DAMAGE, PATIENT INJURY OR DEATH.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

A summary of the safety and clinical performance (SSCP) for this device is available at the European Database on Medical Devices (EUDAMED) after the device reaches the status of the date specified in Article 32 of the EU MDR Regulation after the launch of the European Database on Medical Devices / EUDAMED.

This Instructions for Use are prepared for the HI-TORQUE PILOT™ 50, HI-TORQUE PILOT 150, and HI-TORQUE PILOT 200 Guide Wires.

Table 1

Product Name	Basic UDI-DI	Sterilization
HI-TORQUE PILOT 50 Guide Wire	(01)754062099805X5 (10)Batch/Lot Code	Electron-beam Radiation Sterilization
HI-TORQUE PILOT 150 Guide Wire		
HI-TORQUE PILOT 200 Guide Wire		

The HI-TORQUE™ family of Guide Wires are medical devices that are intended for use in PTCA and PTA to treat patients with coronary or peripheral artery disease as specified in adjunctive interventional therapy instructions. These devices are available in various lengths and diameters and have a hydrophobic distal tip. Refer to the product labeling for dimensional specifications (e.g., wire length, diameter, and design of tip configuration).

Coronary guide wires facilitate PTCA and PTA, which offer clinical benefits for treatment of coronary artery disease (CAD). PTCA and PTA are palliative procedures for myocardial ischemia due to coronary artery disease and peripheral artery disease.

JUY 4F 2A mini PR PROPHETIC Guide Wire (HI-TORQUE™ Guide Wires): Brachial and femoral diameters located with ultrasound prior to PCI. Select a guide wire with a shaft and coil guiding gauge pairs with position relative to the guiding catheter tip when using two wire techniques. Use a guide wire with a shaft and coil guiding gauge pairs with at least 50 mm (inches) of wire (forensics) length.

HI-TORQUE Guide Wires with Choice Radiopaque Markers: Some HI-TORQUE Guide Wires have radiopaque markers at the distal tip. Refer to the product labeling to determine the presence and location of the markers. Markers are radiopaque by the following designation: ■ A series of spaced markers are provided proximal to the coil distal tip. Refer to the product labeling.

HOW SUPPLIED

Sterile – Sterilized with electron-beam radiation. Refer to the product label for the sterilization expiration date. Do not use if the sterile barrier is open or damaged.

This single-use device cannot be resterilized or reused. Resterilization, even if it is not required by regulations, may result in the failure of the device to perform as intended due to chemical residues, reduction of mechanical properties of materials and, damage and / or redistribution may compromise the integrity of the design and / or materials, leading to device malfunction and failure. Reuse, cleaning, or resterilization may also create a risk of contamination of the device, absence of original labeling may lead to misuse and eliminate traceability. Absence of original packaging may lead to device damage, loss of sterility, and / or failure. Do not reuse, reprocess or resterilize if in doubt.

Contains – One (1) guide wire per pouch.

Storage – Store in a dry, dark, cool place.

INTENDED PURPOSE

Guide Wires are intended to facilitate navigation across vascular anatomies and structures in order to deliver diagnostic and therapeutic devices.

INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA and PTA. Refer to the IFU of the device to be delivered for indications for use and procedural procedures. The guide wire may be used to reach and cross a target lesion, provide a pathway within the vessel structure, facilitate the substitution of one diagnostic or therapeutic device for another, and support the delivery of these devices. The guide wire may also be used to cross an occluded or stenosed vessel during the cross initial coronary occlusion (CTO).

CONTRAINDICATIONS

Do not use in the cerebral vasculature.

WARNINGS

This device is not designed for use with atherectomy devices. The safety and effectiveness of the use of this HI-TORQUE™ Guide Wire with atherectomy devices is unknown.

The lifetime of the device in the human body is unknown. This device is designed and intended for ONE-TIME USE ONLY. Do not resterilize and / or reuse. The safety and effectiveness of this device for more than one use has not been established. Reuse may cause infection.

When the guide wire is exposed to the vasculature, it should be manipulated while under high quality fluoroscopic observation.

This device has a hydrophobic coating at the distal end of the device for a length of 30 cm and a hydrophobic polytetrafluoroethylene (PTFE) coating for a length of 143 cm for the HI-TORQUE PILOT 50 and 200 guide wires.

Refer to PREPARATION FOR USE section for further information on how to prepare and use this device to ensure it performs as intended. Failure to abide by the warnings in this section may result in serious injury to the patient, device failure, and/or the need for additional medical intervention.

The safety and effectiveness of the device have not been established, or is unknown, in vessels or regions other than those specifically indicated.

Persons with known history of allergies to any of the components of this device should be identified prior to use. Exposure to the device may result in harm to the user or the patient, the patient should be monitored for the materials contained in the device and a thorough history of allergies must be discussed. This device contains phthalate-containing plasticizer. Phthalates may cause harm to the fetus during pregnancy and lactating women.

Carefully observe the instructions under "Do Not" and "Do" below. Failure to do so may result in vessel trauma, guide wire damage, guide wire tip separation, or distal damage. If resistance is observed at any time, determine the cause under fluoroscopy and take appropriate action. Do not advance the guide wire against resistance until the cause is determined.

Do Not

- Push, auger, withdraw or torque a guide wire that meets resistance.
- Torque a guide wire if the tip becomes entrapped within the vasculature.
- Use a guide wire if the tip has been damaged.
- Deploy a distal protection device between the vessel wall and the stent.

Do

- Use an adhesive the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Verify the guide wire position under fluoroscopy before manipulating, moving or torquing the guide wire.
- Observe the wire under fluoroscopy for tip buckling, which is a sign of resistance.
- Maintain continuous flush while removing and reinserting the guide wire to prevent air from entering the catheter system.
- Use a torque device to advance the guide wire 3 cm or more.
- When contralateral the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Use a compatible introducer sheath, guiding catheter, and interventional device to avoid damage to the guide wire during insertion and withdrawal.
- Use a torque device to advance the guide wire 3 cm or more.
- When contralateral the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Use a compatible introducer sheath, guiding catheter, and interventional device to avoid damage to the guide wire during insertion and withdrawal.

ADVERSE EVENTS

Potential adverse events associated with use of this device may include the following, but are not limited to:

- Allergic reaction or hypersensitivity to latex, contrast agent, anesthetic, drug, or device material (including medications for anticoagulation), or antiplatelet therapy
- Perforation
- Dissection
- Thrombus
- Stenosis / restenosis
- Occlusion
- Vasospasm
- Myocardial infarction
- Embolism
- Death
- Arrhythmia / pseudoaneurysm
- Infection
- Hypersensitivity
- Hypotension
- Hypertension
- Hemorrhage

REPORTING OF ADVERSE EVENTS

The user and / or patient should report any serious incident that has occurred in relation to this HI-TORQUE™ Guide Wire to the manufacturer and the competent authority of the Member State in which the user and / or patient is established, if applicable.

SUGGESTION OF HI-TORQUE™ HI-TORQUE PILOT™ GUIDE WIRE DE-MINEARLIZATION OF CTO LESIONS

Chronic total occlusion (CTO) lesions represent a particularly complex subset of lesions and, therefore, the HI-TORQUE PROGRESS / HI-TORQUE PILOT Guide Wire indication for CTO lesions is suggested. Refer to the instructions for use of the HI-TORQUE PROGRESS for clinical trial.

OBSERVED ADVERSE EVENTS

There were no adverse events with the guide wire-related objective of the study in hospital (per ARC 48 definition) recorded in 10.87% (10/108) of the subjects, with 0.72% (1/138) experiencing clinically driven target lesion revascularization (TLR), 10.87% (15/138) experiencing clinically driven target lesion revascularization (TLR), 0.72% (1/138) experiencing MACE, and 0.72% (1/138) experiencing MACE, with 0.72% (1/138) of the deaths, with 0.72% (1/138) experiencing MACE, and no in-hospital death.

CLINICAL AND LABORATORY STUDIES

The EXPERT CTO trial is a prospective, multi-center, single-arm study. Approximately 250 subjects will be enrolled at approximately 20 clinical sites in the United States. The primary objective is to evaluate the safety and effectiveness of the XIENCE™ Everolimus Eluting Coronary Stent System and the XIENCE PRIME™ / XIENCE ALPINE™ / XIENCE V™ Everolimus Eluting Coronary Stent System in the treatment of chronic total occlusions.

Another key objective of the EXPERT CTO trial was to assess the safety and effectiveness of the XIENCE™ Everolimus Eluting Coronary Stent System and the XIENCE PRIME™ / XIENCE ALPINE™ / XIENCE V™ Everolimus Eluting Coronary Stent System in the treatment of chronic total occlusions. The primary endpoint was target failure at 9 months (defined as cardiac death, target vessel myocardial infarction (MI), or ischemia driven target lesion revascularization (TLR)). Subjects will be followed clinically at 30 days, 6 months, 9 months, 1 year, 2 years, 3 years, 4 years and 5 years post-procedure.

Primary Endpoint

The intended indication for the HI-TORQUE PROGRESS and HI-TORQUE PILOT Guide Wires includes the crossing, or to assist in crossing, de novo chronic total coronary occlusions. Therefore, the guide wire-related primary endpoint was based on procedural success, defined as the ability of the guide wire to cross the target lesion with a guide wire with 3 more pliable distal end. Therefore, **use the guide wire to the least stiff distal end that will treat the lesion, and use extreme care to minimize the risk of perforation or other damage to blood vessels.**

LIMITATIONS

The HI-TORQUE™ Guide Wires do not have a specific limitation in duration of use but are designed for vascular procedures that vary in duration depending on lesion complexity.

Percutaneous transluminal coronary angioplasty (PTCA) should only be performed at facilities with emergency coronary artery bypass graft (CABG) surgery is available.

PRECAUTIONS

Guide wires are delicate instruments and should be handled carefully. Prior to use and when possible during the procedure, inspect the guide wire carefully for bends, kinks, or damage. Do not use damaged guide wires. Damage to a guide wire may result in vessel damage and / or patient trauma.

Confirm the compatibility of the guide wire diameter with the interventional device before actual use.

Refer to the indication on the label and the instructions for Use to confirm the recommended maximum inflation pressure. Do not exceed the pressure listed on the above recommendation may result in rupture of the balloon and / or balloon shaft, which can result in vessel injury, such as, but not limited to, perforation, dissection, rupture, or hemorrhage.

The safety and effectiveness of the HI-TORQUE™ Guide Wire has not been established in the pediatric population.

The movement of the guide wire within the interventional device is an important feature of a steerable guide wire system, because it gives the user valuable tactile information. **Do not** use excessive force when moving the guide wire within the interventional device with an adjustable valve as it is fixed to prevent the valve from opening. Excessive force can result in damage to the guide wire, possibly resulting in separation of the distal tip.

Do not torque the guide wire beyond the point of the proximal end of the interventional device. Doing so may result in damage to the guide wire, possibly resulting in the guide wire's distal tip separating.

HI-TORQUE Guide Wires with Hydrophilic Coating: Avoid abrasion of the hydrophilic coating. Do not wipe the guide wire with gauze pads or other abrasive material. Avoid contact with organic solvents such as alcohol. Do not immerse the guide wire through a metal device may result in destruction and / or separation of the outer coating, which may result in vessel damage and / or patient trauma.

Do not use the guide wire if the hydrophilic coating is damaged. Guards or muscular pressure may damage the hydrophilic coating. Keep the guide wire moist. Do not allow it to dry.

When wet, a hydrophilic coating increases the lubricity of the guide wire surface.

Do not soak the distal tip of the guide wire in saline for more than 5 minutes. Avoid pre-soaking devices for longer than instructed, as this may impact the coating performance.

Do not use the guide wire if the coating has come off or if the coating is damaged.

The integrity and performance of the device coating can be negatively impacted by preparation with incompatible substances. Take note of the following incompatible substances:

Do not expose the devices with dry gauze as this may damage the device coating.

- Avoid excessive wiping of the wire with gauze.
- Avoid using alcohol, antiseptic solutions, or other solvents (e.g., use of medications and solutions that contain these substances) to clean the device as this may damage the coating which could negatively affect the safety and performance of the guide wire.

Attempting to alter the device in any way not specifically described in the device instructions/ methods may compromise the coating integrity, and that damage to the coating may result in vessel damage and / or patient trauma.

Do not use compounds that contain silicone. Silicone can be absorbed by the coating and cause it to swell. Silicone can also cause the coating to delaminate from the guide wire.

Current scientific evidence suggests that radiation sterilization of hydrophilic devices may affect coatings coated do not cause an increased risk of cancer or adverse reproductive effects.

After use, this product may be a potential biohazard. Handle and dispose of it in accordance with accepted medical practice and applicable local, state, and federal laws and regulations.

Table 2. Patient Characteristics of the Primary Endpoint Results (All Guide Wires, MACE includes ARC definition of MI)

Guide Wire Characteristics	IFT Subjects for Guide Wires (n = 138 Subjects, N = 2760 Guide wires*)
CART	10.0% (138/138)
Reverse CART	2.1% (138/138)
Guide wire exchange	0.0% (0/0/138)
Other	2.1% (138/2760)
Subdistal	1.0% (138/138)
Antegrade dissection and reentry method	0.0% (0/138)
Septal Approach utilized	0.0% (0/138)

* The number of guide wires includes the number of study guide wires, non-study guide wires, and the number of guide wires used in the bailout strategy (e.g., buddy wire, externalization, etc.) per target lesion that was successfully performed.

** Subject 28489-0001 had a guide wire successfully crossing the lesion, but the lesion for use of the guide wire was not reported.

*** The crossing method was chosen by the operator "as the Crossing method, but did not provide the choice.

**** The crossing method analysis was done on study guide wire, non-study guide wire, and other manipulation devices.

Baseline Subject Characteristics

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Table 3. Outcomes (All Guide Wires, MACE includes ARC definition of MI)

Guide wire-related Endpoint	Guide Wire Related Success	Two-sided 95% CI
Confirmation of placement of the study guide wire in the distal true lumen	80.1% (3/138)	[73.8%, 85.4%]
Absence of in-hospital MACE**	89.1% (123/138)	[82.7%, 93.6%]

* Based on ARC 48.

** Subjects 28489-0001 had a guide wire successfully crossing the lesion, but the lesion for use of the guide wire was not reported.

*** The crossing method was chosen by the operator "as the Crossing method, but did not provide the choice.

**** The crossing method analysis was done on study guide wire, non-study guide wire, and other manipulation devices.

Secondary Endpoint and Other Results

In the IFT population, the guide wire-related secondary endpoint was met:

- Device success, defined as attainment of < 50% residual stenosis of the target lesion using the assigned study device, was achieved in 89.1% (123/138) of the lesions.
- Procedure success, defined as device success without in-hospital MACE, was achieved in 89.1% (123/138) of the lesions and in 89.1% (123/138) of the subjects.
- Procedural success evaluated according to the following components was:
  - 89.1% (123) using Retrograde Only crossing technique
  - 0.0% (0/138) using Contralateral Antegrade and Retrograde crossing technique
  - 100% (1/1) using Other crossing technique (submitted)
  - 89.1% (123/138) using Overall technique

No clinically significant differences in demographic or angiography were observed in any of the subjects.

In-hospital MACE per ARC 48 definition occurred in 10.87% (15/138) of the subjects, with 0.72% (1/138) experiencing clinically driven target lesion revascularization (TLR), 10.87% (15/138) experiencing MI, and no in-hospital death. Presented in-hospital MACE results are based on hierarchical subject counts; presented results for components of MACE may not equal the total MACE result.

Table 4. Analysis of the Primary Endpoint Results (Confirmed by Study Guide Wires, MACE includes ARC definition of MI)

Guide wire-related Endpoint	Guide Wire Related Success	Two-sided 95% CI
Confirmation of placement of the study guide wire in the distal true lumen	80.1% (3/138)	[73.8%, 85.4%]
Absence of in-hospital MACE**	89.1% (123/138)	[82.7%, 93.6%]

* Based on ARC 48.

** Subjects 28489-0001 had a guide wire successfully crossing the lesion, but the lesion for use of the guide wire was not reported.

*** The crossing method was chosen by the operator "as the Crossing method, but did not provide the choice.

**** The crossing method analysis was done on study guide wire, non-study guide wire, and other manipulation devices.

Table 5. Summary of Guide Wire Used for Purpose of Crossing – Wire Used Analysis

Total Number of Guide Wires Used	Number Used for Purpose of Crossing (% of Total)	Number Successfully Crossed	% of Success
Study Wires	258	84	39.6%
Non-study Wires	454	210 (45.6%)	84	30.5%

PREPARATION FOR USE

Contraindications, warnings, limitations, and intended uses of interventional devices complete with HI-TORQUE™ Guide Wires are described in the instructions supplied with the respective devices.

Prior to the interventional procedure, examine carefully all equipment to be used, including the interventional devices, for defects. Do not use if the device is damaged or defective.

1. Prepare the interventional device and all ancillary equipment according to the manufacturer's instructions. Be sure to flush the guide wire lumen thoroughly.
2. Remove the guide wire from the dispenser by pushing the exposed section of the guide wire into the dispenser until the guide wire tip and a portion of the core exit the end of the hoop.
3. Grasp the guide wire tip and pull the guide wire through the hoop. Continue pulling the guide wire until the proximal end of the guide wire is removed from the dispenser.
4. If required, the guide wire may be carefully shaped using the shaping mandrel. Do not kink the guide wire during shaping.

HI-TORQUE Guide Wires with Hydrophilic Coating

1. Before removing the guide wire from the dispenser, inject normal saline into the hub end of the dispenser to thoroughly wet the complete surface of the guide wire.
2. Carefully remove the guide wire from the dispenser, as suggested above in PREPARATION FOR USE, step 2. If the guide wire cannot be removed easily from the dispenser, inject more saline into the dispenser once it has been removed.
3. Do not transport the guide wire into the dispenser (circumstances).
4. Proceed according to standard medical practices.

Table 6. Analysis on proportions erosion duplexnych zadnej tkaniny (Kolmogorov-Smirnov test)

Kraniec tkaniny, cieplnicy z dvojic	Body= Ciepłotne zrenie	Dzielnik Kompozycja wstępna	Dzielnik Kompozycja wstępna	P-value
Potwierdzenie po testowanie na wojsk w jakości zrenie wtrysk	79.0% (109/138)	[71.2%, 85.5%]	82.50%	72.8%	< 0.0001

** Kolagenu na eksploatowanie na wewnątrz endpoint na Kolcowanie za zwojowanie wzrokowe (ARC).

Wdłużu na przejściu na przestrzeni w zakresie wzrokowe (Kolcowanie za zwojowanie wzrokowe (ARC).

Table 7. Porównanie wyników duplexnych zadnej tkaniny (Kolmogorov-Smirnov test)

Kraniec tkaniny, cieplnicy z dvojic	Body= Ciepłotne zrenie	Dzielnik Kompozycja wstępna	Dzielnik Kompozycja wstępna	P-value
Potwierdzenie po testowanie na wojsk w jakości zrenie wtrysk	79.0% (109/138)	[71.2%, 85.5%]	82.50%	72.8%	< 0.0001

** Kolagenu na eksploatowanie na wewnątrz endpoint na Kolcowanie za zwojowanie wzrokowe (ARC).

Interakcje z innymi produktami

Nie przeprowadzono badań interakcji z innymi produktami.

Instrukcje dotyczące stosowania

1. Podczas czyszczenia i sterylizacji urządzenia należy przestrzegać instrukcji producenta.
2. Przed użyciem i po użyciu należy sprawdzić urządzenie pod kątem uszkodzeń.
3. Nie używać uszkodzonego urządzenia.
4. Nie używać urządzenia po upływie terminu ważności.
5. Nie używać urządzenia, jeśli opakowanie jest otwarte lub uszkodzone.
6. Nie używać urządzenia, jeśli nie jest sterylne.
7. Nie używać urządzenia, jeśli nie jest przeznaczone do użytku.
8. Nie używać urządzenia, jeśli nie jest przeznaczone do użytku.
9. Nie używać urządzenia, jeśli nie jest przeznaczone do użytku.
10. Nie używać urządzenia, jeśli nie jest przeznaczone do użytku.

Przeciwwskazania

Nie stosować w naczyniach mózgowych.

Ostrzeżenia

Urządzenie nie jest przeznaczone do stosowania z atherektomami. Bezpieczeństwo i skuteczność stosowania tego prowadnika HI-TORQUE™ z atherektomami nie są znane.

Czas życia urządzenia w organizmie człowieka jest nieznany. Urządzenie jest przeznaczone i przeznaczone do JEDNORAZOWEGO UŻYTKU. Nie sterylizować ponownie i / lub nie używać ponownie. Ponowne użycie może spowodować infekcję.

Bezpieczeństwo i skuteczność stosowania tego urządzenia więcej niż jeden raz nie zostały ustalone. Ponowne użycie może spowodować infekcję.

Gdy prowadnik jest wystawiony na działanie naczyń krwionośnych, należy nim manipulować pod kontrolą wysokiej jakości obrazu fluoroskopowego.

To urządzenie ma powłokę hydrofobową na dystalnym końcu urządzenia o długości 30 cm i hydrofobową powłokę z politetrafluoroetylenu (PTFE) o długości 143 cm dla prowadników HI-TORQUE PILOT 50 i 200.

Aby uzyskać więcej informacji na temat przygotowania i stosowania tego urządzenia, aby zapewnić jego prawidłowe działanie, należy zapoznać się z sekcją PRZYGOTOWANIE DO UŻYCIA. Nieprzestrzeganie ostrzeżeń zawartych w tej sekcji może spowodować poważne obrażenia pacjenta, awarię urządzenia i / lub konieczność zastosowania dodatkowej interwencji medycznej.

Bezpieczeństwo i skuteczność urządzenia nie zostały ustalone lub są nieznane w naczyniach lub obszarach innych niż te, które zostały wyraźnie wskazane.

Osoby z rozpoznaną historią alergii na którykolwiek z elementów tego urządzenia powinny zostać zidentyfikowane przed użyciem. Kontakt z urządzeniem może spowodować szkody dla użytkownika lub pacjenta, pacjent powinien być monitorowany pod kątem materiałów zawartych w urządzeniu, a dokładny wywiad dotyczący alergii musi zostać omówiony. To urządzenie zawiera plastyfikator zawierający ftalany. Ftalany mogą powodować szkody dla płodu podczas ciąży i u kobiet karmiących piersią.

Uważnie obserwować instrukcje pod „Nie” i „Tak” poniżej. Nieprzestrzeganie tych instrukcji może spowodować uraz naczynia, uszkodzenie prowadnika, oddzielenie końcówki prowadnika lub uszkodzenie dystalne. Jeśli w dowolnym momencie zaobserwowano opór, należy określić przyczynę pod kontrolą fluoroskopii i podjąć odpowiednie działania. Nie należy wprowadzać prowadnika na siłę, dopóki przyczyna oporu nie zostanie ustalona.

Nie

- Nie popychać, nie wkręcać ani nie wyciągać prowadnika, który napotyka na opór.
- Nie obracać prowadnika, jeśli końcówka utknęła w naczyniu krwionośnym.
- Nie używać prowadnika, jeśli końcówka została uszkodzona.
- Nie wdrażać urządzenia ochronnego dystalnego między ścianą naczynia a stentem.

Tak

- Ostrożnie wprowadzić prowadnik.
- Użyć znacznika radiacyjnego urządzenia interwencyjnego, aby potwierdzić położenie.
- Przed manipulowaniem, przesuwaniem lub obracaniem prowadnika sprawdzić położenie prowadnika pod fluoroskopią.
- Obserwować prowadnik pod fluoroskopią pod kątem wyboczenia końcówki, co jest oznaką oporu.
- Podczas wyjmowania i ponownego wkładania prowadnika zachować ciągłe płukanie, aby zapobiec przedostawaniu się powietrza do systemu cewnikowego.
- Użyć urządzenia do obracania, aby przesunąć prowadnik o 3 cm lub więcej.
- Po przeciwległym prowadniku sprawdzić, czy końcówka urządzenia interwencyjnego znajduje się swobodnie w świetle naczynia i czy końcówka jest równoległa do ściany naczynia.
- Użyć kompatybilnej koszulki wprowadzającej, cewnika prowadzącego i urządzenia interwencyjnego, aby uniknąć uszkodzenia prowadnika podczas wprowadzania i wycofywania.

Potencjalne zdarzenia niepożądane

Potencjalne zdarzenia niepożądane związane z tym urządzeniem mogą obejmować, ale nie ograniczają się do:

- Reakcja alergiczna na hipersensybilizację na lateks, an agenta kontrastu, z anestetyk, lek, lub materiał urządzenia (w tym leki przeciwkrzepliwe) na antyagregacyjne
- Perforacja
- Dysekcja
- Zakrzepica
- Zwężenie / restenoza
- Okluzja
- Arytmia
- Zawał serca

- Embolia
- Fałszywa aneurektazja (AV)
- Krwotok
- Hipotonia
- Nadciśnienie
- Krwiak
- Zakażenie
- Nadwrażliwość
- Śmierć

Zgłaszanie zdarzeń niepożądanych

Użytkownik i / lub pacjent powinien zgłosić wszelkie poważne incydenty, które wystąpiły w związku z tym prowadnikiem HI-TORQUE™ do producenta i właściwego organu państwa członkowskiego, w którym użytkownik i / lub pacjent ma siedzibę, jeśli dotyczy.

SUGESTIA DOTYCZĄCA DEMINERALIZACJI ZMIAN CTO PROWADNIKIEM HI-TORQUE™ HI-TORQUE PILOT™

Zmiany przewlekłej całkowitej okluzji (CTO) stanowią szczególnie złożony podzbiór zmian, dlatego sugerowane jest wskazanie prowadnika HI-TORQUE PROGRESS / HI-TORQUE PILOT do zmian CTO. Aby uzyskać więcej informacji na temat badania klinicznego, należy zapoznać się z instrukcją użycia prowadnika HI-TORQUE PROGRESS.

Obserwowane zdarzenia niepożądane

W populacji IFT zdarzenia niepożądane związane z prowadnikiem wystąpiły u 10,87% (15/138) badanych, z czego u 0,72% (1/138) wystąpiła klinicznie istotna rewaskularyzacja docelowej zmiany (TLR), u 10,87% (15/138) wystąpił zawał mięśnia sercowego (MI), u 0,72% (1/138) wystąpiło MACE, a u 0,72% (1/138) wystąpiło MACE, w tym 0,72% (1/138) zgonów, bez zgonów wewnątrzszpitalnych.

Badania kliniczne i laboratoryjne

Badanie EXPERT CTO jest prospektywnym, wielośrodkowym badaniem z jedną grupą. Planuje się włączenie około 250 pacjentów w około 20 ośrodkach klinicznych w Stanach Zjednoczonych. Głównym celem badania EXPERT CTO jest ocena bezpieczeństwa i skuteczności systemu stentu kobaltowo-chromowego uwalniającego everolimus XIENCE™ oraz systemu stentu kobaltowo-chromowego uwalniającego everolimus XIENCE PRIME™ / XIENCE ALPINE™ / XIENCE V™ w leczeniu przewlekłych całkowitych okluzji.

Kolejnym ważnym celem badania EXPERT CTO było ocena bezpieczeństwa i skuteczności systemu stentu kobaltowo-chromowego uwalniającego everolimus XIENCE™ oraz systemu stentu kobaltowo-chromowego uwalniającego everolimus XIENCE PRIME™ / XIENCE ALPINE™ / XIENCE V™ w leczeniu przewlekłych całkowitych okluzji. Pierwszorzędowym punktem końcowym było niepowodzenie docelowej zmiany po 9 miesiącach (zdefiniowane jako zgon sercowy, zawał mięśnia sercowego docelowego naczynia lub ischemiczna rewaskularyzacja docelowej zmiany (TLR)). Pacjenci będą obserwowani klinicznie po 30 dniach, 6 miesiącach, 9 miesiącach, 1 roku, 2 latach, 3 latach, 4 latach i 5 latach po zabiegu.

Tabela 2. Charakterystyka pacjentów

Charakterystyka	Wartość
Liczba pacjentów	138
Średni wiek (lata)	63,5
Mężczyźni	82,6% (114/138)
Kobiety	17,4% (24/138)
Cukrzyca	31,9% (44/138)
Nadciśnienie	73,9% (102/138)
Hipercholesterolemia	73,2% (101/138)
Palenie tytoniu	34,8% (48/138)
Przebyty zawał mięśnia sercowego	39,1% (54/138)
Przebyta rewaskularyzacja wieńcowa	47,8% (66/138)
Przebyta operacja pomostowania aortalno-wieńcowego	15,2% (21/138)
Niewydolność serca	5,8% (8/138)
Przebyty udar	5,8% (8/138)
Przebyty przemijający atak niedokrwienny	5,8% (8/138)
Choroba naczyń obwodowych	5,8% (8/138)
Przewlekła niewydolność nerek	2,9% (4/138)
Przebyta angioplastyka wieńcowa przezskórna	39,1% (54/138)
Przebyta interwencja wieńcowa przezskórna	39,1% (54/138)
Przebyta angioplastyka przezskórna	39,1% (54/138)
Przebyta interwencja przezskórna	39,1% (54/138)
Przebyta angioplastyka przezskórna	39,1% (54/138)
Przebyta interwencja przezskórna	39,1% (54/138)

Tabela 3. Wyniki

Wyniki	Wartość
Powodzenie proceduralne	89,1% (123/138)
Powodzenie proceduralne bez wewnątrzszpitalnego MACE	89,1% (123/138)
Wewnątrzszpitalne MACE	10,87% (15/138)
Wewnątrzszpitalne MACE bez zgonów

TOTAL LENGTH of piece is 37-15/16"

5-1/2"

5-7/16"

5-3/8"

5-7/16"

5-3/8"

5-3/8"

6-5/8"

6-13/16"

TOTAL HEIGHT of piece is 13-7/16"

6-5/8"

6-13/16"

HI-TORQUE™ Guide Wire

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED IN THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for the contraindications, and potential complications.

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PLP,21240307-03 (2021-10-14)

℞ ONLY

CE 2797

Abbott

HI-TORQUE™ Guide Wire

Abbott Vascular International BVBA
Park Lane, Culliganlaan 2B
1831 Diegem, BELGIUM

Fold template along this center line to view the piece backed-up.

TOTAL LENGTH of piece is 37-15/16"

5-1/2"

5-7/16"

5-3/8"

5-7/16"

5-3/8"

5-3/8"

TOTAL HEIGHT of piece is 13- 7/16"

6-13/16"

6-5/8"

5-3/8"

FRONT SIDE OF PIECE

INSIDE OF PIECE

Fold template along this center line to view the piece backed-up.

Fold template along this center line to view the piece backed-up.

Fold template along this center line to view the piece backed-up.

English

HI-TORQUE™ Guide Wire

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED IN THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

Storage – Store in a dry, dark, cool place.

INTENDED PURPOSE

Guide Wires are intended to facilitate navigation across vascular anatomies and structures in order to deliver diagnostic and therapeutic devices.

INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA procedures. The HI-TORQUE PILOT 50 is indicated for use in coronary and peripheral procedures. The guide wire may be used to reach and cross a target lesion to provide a pathway within the vessel structure; facilitate the substitution of one diagnostic or therapeutic device for another; and support the advancement of devices. The guide wire may also be used to cross or assist in crossing an obstruction in the coronary tidal coronary occlusions (CTO).

CONTRAINDICATIONS

Not indicated for use in the cerebral vasculature.

WARNINGS

This device is not designed for use with atherectomy devices. The safety and effectiveness of the use of this HI-TORQUE™ Guide Wire with atherectomy devices is unknown.

The lubrisse at the end of the device is intended for use in the coronary anatomy only. This device is designed and validated for 300.7MM USE ONLY. Do not redistribute and / or reuse. The safety and effectiveness of the device has not been established for re-use in other anatomical locations.

When the guide wire is exposed to the coronary system, it should be manipulated while under high quality fluoroscopic observation.

This device has a hydrophilic coating at the distal end of the device for a length of 30 cm and a hydrophobic polytetrafluoroethylene (PTFE) coating for a length of 143 cm for the HI-TORQUE PILOT 50 and PILOT 150.

Refer to PREPARATION STEP #3 for further information on how to prepare and use this device to ensure it performs as intended. Failure to abide by the warnings in this section may result in damage to the device, which may necessitate intervention or result in serious adverse events.

The safety and effectiveness of the device have not been established, or is unknown, in vessels or regions other than those specifically indicated.

Persons with known history of allergies to any of the components of this device should be identified prior to use and should not use this device. Prior to use of this device, the patient should be questioned on the materials contained in the device and a thorough history of allergies must be discussed. This device contains polisorbate 80 (Tween 80), polyethylene glycol (PEG), silicone, nickel, titanium, polyurethane, polytetrafluoroethylene (PTFE) coating, platinum, and gold.

Carefully observe the instructions under "Do Not" and "Do" below. Failure to do so may result in vessel damage, guide wire damage, guide wire tip separation, or chest damage. If resistance is observed at any time, determine the cause under fluoroscopy and take remedial action as needed. Use the most suitable guide wire for the lesion being treated.

Do Not

- Attempt to withdraw the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Use the guide wire in conjunction with any catheter under fluoroscopy before manipulating, moving or torquing the guide wire.
- Observe the wire under fluoroscopy for tip buckling, which is a sign of perforation.
- Maintain continuous flush while removing and reinserting the guide wire to prevent air from entering the catheter system.
- Use excessive force during the introduction, use, or removal of any device.
- When withdrawing the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Torque the guide wire beyond the point at which tip movement is observed.
- Use more compressive force than is necessary to prevent damage to the device. Overtightening the hemostasis valve may result in permanent damage to the guide wire.
- Consider that if a permanent pacemaker is present, the guide wire may need to be retracted prior to stent deployment, because there is additional risk for perforation when a metallic wire-mesh device is entrapped between the vessel wall and the stent.

Do

- Use a torque device to advance the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Use the guide wire in conjunction with catheter under fluoroscopy before manipulating, moving or torquing the guide wire.
- Observe the wire under fluoroscopy for tip buckling, which is a sign of perforation.
- Maintain continuous flush while removing and reinserting the guide wire to prevent air from entering the catheter system.
- Use excessive force during the introduction, use, or removal of any device.
- When withdrawing the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Torque the guide wire beyond the point at which tip movement is observed.
- Use more compressive force than is necessary to prevent damage to the device. Overtightening the hemostasis valve may result in permanent damage to the guide wire.
- Consider that if a permanent pacemaker is present, the guide wire may need to be retracted prior to stent deployment, because there is additional risk for perforation when a metallic wire-mesh device is entrapped between the vessel wall and the stent.

Tabela 2: Karakteristike žice vodilje

Karakteristike žice vodilje	Ispitivani ITT sa ciljnom lezijom, N = 700 (žica vodilja*)
Uspešnjenje žice vodilja sa žicom vodilja u ciljnoj leziji	100,0 % (700/700)
1 uspešnjenje žičanog vodilja	51,5 % (719/1396)
2 uspešnjenja žičanog vodilja	25,7% (358/1396)
3 uspešnjenja žičanog vodilja	14,5 % (203/1396)
4 uspešnjenja žičanog vodilja	4,5 % (63/1396)
5 ili več uspešnjenja žičanog vodilja	3,8 % (53/1396)
Drugi uspešnjenja sa relevantnom žicom vodilja	36,2 % (94/136)
Žičano vodilja	25,4 % (29/114)
2 ili več uspešnjenja proizvoljnom sa relevantnom	10,9 % (15/138)
Vodilna žica i uspešnjenje proizvoljnom leze žica vodilja	35,1 % (144/422)
Složene vodilne žice i uspešnjenje proizvoljnom leze žica vodilja	30,5 % (84/213)
Složene vodilne žice bez uspešnjenja	50,5 % (43)
Složene vodilne žice bez uspešnjenja	34,9 % (95/299)
Složene	82,2 % (212/299)
Drugi razlog	1,5 % (5/258)
Metode procene vodilne žice*	
Samo angiografske***	81,9 % (388/474)
Angiografski procene (ali metodu nikakvanalo)	78,9 % (47/474)
IDAR	0,8 % (4/474)
Ostalo	1,5 % (9/474)
Tipprednja žica	0,2 % (1/474)
Samo retrograda	13,7 % (65/474)
Retrograda procene	13,7 % (65/474)
Cenkuza žica	1,1 % (5/474)
Kombinovano antegrade-ili retrograda	2,3 % (11/474)

* Broj žica vodilja antegrade ili žica vodilja koje su bile uključene u uspešnjenje. Broj žica vodilja koje nisu bile uključene u uspešnjenje i ostalim protokola za relevantnu.

** Jedan spektralni DTD-O-SDO označio je „Samo antegrade" kao vrednost pacijenta, ali nije naveo jedinstvenu.

*** Broj žica vodilja koje su bile uključene u procene žica vodilja koje su bile uključene u uspešnjenje, ali nisu vodilja koje nije bile uključene u uspešnjenje i ostalim protokola za relevantnu.

b. Zatvorite hemostatski ventil i vodu za ispiranje na konvenciji rezervoir.

7. Povucite sklopku sa žice vodilja prema standardnoj praksi ili pripremite sledeću žicu vodilja.

8. Ponovo uključite žicu vodilja u sistem za ispiranje i ponovo postavite hemostatski ventil prstenjen na vodeći kateter.

9. Ponovo uključite žicu vodilja u sistem za ispiranje i ponovo postavite hemostatski ventil prstenjen na vodeći kateter.

10. Uklonite i žice vodilje prilikom žice za zaključivanje i uvedite za žice vodilje.

11. Nastavite žice vodilje sa vodeći kateter u ciljnu lezije.

UPUTSTVO ZA POSTUPAK ZAMENE INTERVENTNOG SREDSTVA

Sistem tipa preko žice (Over-the-Wire) (tehnika podešavanja unapred)

1. Ako koristite HI-TORQUE™ žicu vodilja za zamenu, prelite na korak 2.

2. Ako koristite HI-TORQUE™ žicu vodilja za zamenu, uklonite žicu vodilja sistema DCA™ i podešavanja vodilja u vodilja, pazeći da ne uklonite ili promenite položaj vodeće žice vodilja. Ako je potrebno, uklonite sve proksimalne sklopke sa konkretne interventne ili upotrebe HI-TORQUE žice vodilja kao žice vodilja za dilataciju.

3. Odmah uklonite žicu vodilja sistema za ispiranje i ponovo uvedite žicu vodilja sa dužinom za zamenu.

4. Pripremite drugo interventno sredstvo prema uputstvu proizvođača.

5. Podesite sredstvo sa žice vodilja i uvedite ga preko HI-TORQUE žice vodilja za zamenu žice vodilja.

6. Nastavite primenjujući standardne medicinske prakse.

Sistem tipa žice (tehnika uvedenja sklopke žice)

1. Odmah uklonite žicu vodilja sistema uvedite preko žice vodilja.

2. Pripremite sledeće interventno sredstvo prema uputstvu proizvođača.

3. Uklonite HI-TORQUE žice vodilja sistema za ispiranje i ponovo postavite HI-TORQUE žice vodilja i preko žice vodilja.

4. Nastavite primenjujući standardne medicinske prakse.

Dansk / Dansk

HI-TORQUE™ guidewire

FORSIGTIGHEDSREGLER

Dette medicinske produkt må udelukkende anvendes af læger, der er uddannet i angiografi og perkutan transluminal koronar angioplastik (PTCA) og/eller perkutan transluminal angioplastik (PTA).

LÆS ALLE ANVISNINGER NØJE INDEN ANVENDELSE. ALLE ADVARSLER OG FORHOLDSREGLER, DER ER NÆVNT I DISSE ANVISNINGER, SKAL OVERHOLDES. HVIS DET IKKE SKER KAN DET RESULTERE I KOMPLIKATIONER.

Anvisningerne, der leveres sammen med det interventionelle udstyr, som skal anvendes sammen med HI-TORQUE™ guidewire, skal overholdes med hensyn til anvendelse, kontraindikationer og potentielle komplikationer.

En sammenstilling af sikkerhed og klinisk virkevne (SECP) for dette udstyr er tilgængelig på http://ec.europa.eu/tools/eudamed. Søg efter det grundlæggende UDI-DI nr. eller et kataloг / batch. Dette er SSCP-oplysninger eller lokalversion af den europæiske database for medicinsk udstyr (Eudamed).

Denne brugsanvisning kan i henhold til den europæiske forordning (EU) 2017/745 findes på Abbott eLibrary-websitet på vaccute.vhf.vi.abbott.

LEVERING

Denne brugsanvisning erstatter HI-TORQUE™ 10 og HI-TORQUE PILOT 10.

INDIKATIONER

Til brug ved at øge indføring af kateterbaserede interventionelle enheder under PTCA-procedurer. HI-TORQUE PILOT 50 er indiceret til brug i koronar- og perifere procedurer. Den kan bruges til at nå og krydse en målrettet læsion for at give en passage i karvævet; lette udskiftningen af en diagnostisk eller terapeutisk enhed med en anden; og understøtte fremføringen af enheder. Den kan også bruges til at krydse eller hjælpe med at krydse en obstruktion i koronar tidal koronar occlusioner (CTO).

Alternativ til alle tilfælde af en kirurgisk eller perkutan procedure, er der andre metoder til behandling af den samme tilstand, der også kan være passende. Lægen skal overveje den potentielle risk og fordele ved brugen af ethvert udstyr til at sikre bedring af kliniske og livsstil.

KONTRAINDIKATIONER

Ikke indiceret til brug i cerebrale vaskulære.

ADVARSLER

Brug af denne guidewire med atherectomy-enheder med atherectomyenheder. Sikkerheden og effektiviteten ved brugen af denne HI-TORQUE™ guidewire med atherectomyenheder er ikke fastlagt.

Den lubrisse i slutningen af enheden er kun beregnet til brug i koronaranatomien. Denne enhed er udviklet og godkendt til kun 300.7MM brug. Brug af en beskadiget guidewire kan resultere i komplikationer, herunder perforering af arterien.

Det er ikke blevet påvist, at denne enhed er sikker og effektiv til brug i andre anatomiske områder end dem, der er specifikt angivet i denne brugsanvisning.

Hvis guidewiren er eksponeret for koronarsystemet, skal den manipuleres under fluoroskopisk observation af høj kvalitet.

Denne enhed har en hydrofil belægning på den distale ende af enheden i en længde på 30 cm og en hydrofob polytetrafluorethylen (PTFE) belægning i en længde på 143 cm til HI-TORQUE PILOT 50 og PILOT 150 guidewire.

Se afsnittet FORBEREDELSE TRIN NR. 3 for yderligere oplysninger om, hvordan denne enhed forberedes og bruges, for at sikre, at den fungerer efter hensigten. Manglende overholdelse af advarslerne i denne sektion kan resultere i skade på enheden, som kan medføre behovet for indgreb eller alvorlige uønskede hændelser, hvilket kan kræve interventionelle eller kirurgiske indgreb.

Produktets sikkerhed og effektivitet er ikke blevet fastlagt eller er ukendt i andre karkaser regioner end dem, der specifikt er nævnt i denne brugsanvisning.

Personer med kendt allergi over for et af dette produkts komponenter, som er identificeret før brug, og som ikke skal anvende denne enhed, skal bemærkes. Inden brug af denne enhed skal patienten spørges vedrørende materialerne i produktet, og grundig gennemgang af patientens allergihistorie skal drøftes. Denne enhed indeholder polysorbat 80 (Tween 80), polyethylenglycol (PEG), silikone, nikkel, titanium, polyurethan, polytetrafluorethylen (PTFE)-belægning, platin og guld.

ADVARSLER OG FORHOLDSREGLER

Overhold omhyggeligt anvisningerne under "Ikke må ikke" og "Ikke skal" nedenfor. Manglende overholdelse kan resultere i skade på fartøjet, skade på guidewire, adskillelse af guidewire-spids eller brystskade. Hvis der observeres modstand på noget tidspunkt, skal årsagen bestemmes under fluoroskopi, og afhjælpende tiltag træffes efter behov. Brug den mest passende guidewire til den læsion, der behandles.

Ikke må

- Skubbe, slæbe, drejningsmoment eller vride en guidewire, hvis den møder modstand.
- Vride en guidewire, hvis spidsen bliver fanget inde i vaskulaturen.
- Lade guidewiren være eksponeret for omgivelserne.
- Anbringe et stent således, at wiren kan blive fanget mellem kar-væggen og stenten.

Ikke skal

- Fremføre eller tilbagetrække guidewiren langsomt.
- Anvende den guidewire, der ikke er hensigtsmæssige udstyr til at behandle læsionen.
- Anvende guidewiren bevægelser under fluoroskopi inden manipulering, bevægelse eller vridning af guidewire.
- Observere wiren under fluoroskopi for krumning af spidsen, hvilket er et tegn på perforation.
- Opretholde kontinuerlig skyl under fjernelse og genindføring af guidewire for at forhindre luft i at komme ind i kateter-systemet.
- Anvende overdreven kraft under indførelsen, brug eller fjernelse af ethvert udstyr.
- Bakkefør med genfremføring af guidewire, at det interventionelle udstyrs spids er fri within the vessel lumen and that the tip is parallel to the vessel wall.
- Drejningsmoment guidewiren ud over det punkt, hvor spidsbevægelse observeres.
- Udøve stærkere trykgreb, end er nødvendigt for at undgå skade på enheden. Overtrækning af hæmostase-ventilen kan resultere i permanent skade på guidewiren.
- Overvej, at hvis der er en permanent pacemaker til stede, kan guidewiren skulle tilbagetrækkes, inden stenten udrulles, da der er en øget risiko for perforering, når en metallisk wire-mesh enhed er fanget mellem karvæggen og stenten.

Gør

- Brug en drejningsmoment-enhed til at fremføre guidewiren langsomt.
- Brug det radiopake markørbånd på det interventionelle udstyr til at bekræfte placeringen.
- Brug guidewiren i forbindelse med ethvert kateter under fluoroskopi inden manipulering, bevægelse eller vridning af guidewiren.
- Observere wiren under fluoroskopi for krumning af spidsen, hvilket er et tegn på perforation.
- Opretholde kontinuerlig skyl under fjernelse og genindføring af guidewiren for at forhindre luft i at komme ind i kateter-systemet.
- Anvend kun den kraft, der er nødvendig for at undgå skade på enheden. Overtrækning af hæmostase-ventilen kan resultere i permanent skade på guidewiren.
- Overvej, at hvis der er en permanent pacemaker til stede, kan guidewiren skulle tilbagetrækkes, inden stenten udrulles, da der er en øget risiko for perforering, når en metallisk wire-mesh enhed er fanget mellem karvæggen og stenten.

Tabel 3: Resultat primære endepunkt (over-the-wire)

Ja	Nej	Total
258	4	262
456	212 (45,6%)	668

FREMGANGSMÅDE FOR UDSKIFTNING AF INTERVENTIONSUDSTYR

Sporing over-the-wire (OTW) system (forudindstillet)

1. Hvis du anvender HI-TORQUE™ Exchange Guide Wire, proceed to step 2.
2. Hvis du anvender HI-TORQUE™ Exchange Guide Wire, fjern DCA™ Guide Wire Extension- og Adapter-systemet fra guidewiren, mens du passer på ikke at ændre eller flytte den indledende guidewire position. Fjern om nødvendigt alle proximale skydere fra den pågældende interventionelle enhed eller HI-TORQUE guidewire, der skal bruges til udskiftning.
3. Fjern straks guidewiren fra guidewire-systemet for at undgå, at der kommer luft ind i systemet.
4. Forbered det interventionelle udstyr i overensstemmelse med producentens anvisninger.
5. Indfør det ønskede udstyr over guidewiren til det ønskede sted.
6. Fortsæt med standard medicinske praksis.

Sporing over-the-wire (OTW) system (forudindstillet)

1. Fjern straks guidewiren fra guidewire-systemet for at undgå, at der kommer luft ind i systemet.
2. Fjern det interventionelle udstyr i overensstemmelse med producentens anvisninger.
3. Indfør det ønskede udstyr over guidewiren til det ønskede sted.
4. Fortsæt med standard medicinske praksis.

Rapid Exchange (RX) system

1. Fjern straks guidewiren fra guidewire-systemet for at undgå, at der kommer luft ind i systemet.
2. Fjern det interventionelle udstyr i overensstemmelse med producentens anvisninger.
3. Indfør det ønskede udstyr over guidewiren til det ønskede sted.
4. Fortsæt med standard medicinske praksis.

Fjernelse af HI-TORQUE™ guidewire

1. Fjern straks guidewiren fra guidewire-systemet for at undgå, at der kommer luft ind i systemet.
2. Fjern det interventionelle udstyr i overensstemmelse med producentens anvisninger.
3. Fjern guidewiren ved at holde den distale ende af guidewiren stabil, mens der påføres et let, roterende træk på guidewiren.
4. Fortsæt med standard medicinske praksis.

Suomi / Suomi

HI-TORQUE™ -ohjainlanka

VAROTOIMET

Tätä lääkinnällistä laitetta saa käyttää vain lääkärit, jotka ovat koulutettuja angiografiaan ja perkutaaniseen transluminaaliseen sepelvaltimoiden angioplastiaan (PTCA) ja/tai perkutaaniseen transluminaaliseen angioplastiaan (PTA).

LUE KAIKKI OHJEET HUOLELLISESTI ENNEN KÄYTTÖÄ. NOUDATA KAIKKIA VAROITUKSIA JA VAROTOIMIA, JOTKA ON MAINITTU NÄISSÄ OHJEISSA. NÄIDEN NOUDATTAMATTA JÄTTÄMINEN VOI JOHTAA KOMPLIKAATIOIHIN.

Ohjeet, jotka koskevat HI-TORQUE™ -ohjainlankaan käytettäviä interventiolaitteita, niiden käyttötarkoitusta, vasta-aiheita ja mahdollisia komplikaatioita.

Tämä laitteen turvallisuutta ja kliinistä suorituskykyä (SECP) koskeva yhteenveto on saatavilla osoitteessa http://ec.europa.eu/tools/eudamed. Etsi perustavanlaatuisen UDI-DI-numeron tai luettelo- tai eränumeron perusteella. Tämä on Euroopan lääkinnällisten laitteiden tietokannan (Eudamed) SSCP-tiedot tai paikallinen versio.

Tämä käyttöohje korvaa HI-TORQUE 10 -ohjainlangan ja HI-TORQUE PILOT 10 -ohjainlangan käyttöohjeet.

INDIKAATIOT

Tarkoitettu helpottamaan hoitolaitteiden toimitusta PTCA-toimenpiteissä. HI-TORQUE PILOT 50 on tarkoitettu käytettäväksi sepelvaltimo- ja ääreistoimenpiteissä. Ohjainlankaa voidaan käyttää kohdeleesion saavuttamiseen ja ylittämiseen, jotta saadaan aikaan kulkuväylä verisuonirakenteen sisällä; helpottaa diagnostisen tai hoitolaitteen vaihtamista toisella; ja tukea laitteiden etenemistä. Ohjainlankaa voidaan myös käyttää tukkeuman ylittämiseen tai ylittämisessä koronaarisen tukkeutumisen (CTO) yhteydessä.

Vaihtoehtoja kirurgiselle tai perkutaaniselle toimenpiteelle on olemassa kaikissa tapauksissa, joissa sama hoitotulos voidaan saavuttaa. Lääkärin on harkittava mahdollisia riskejä ja hyötyjä, jotka liittyvät kaikkien laitteiden käyttöön potilaan kliinisen ja elämänlaadun parantamiseksi.

VASTA-AIHEET

Ei käytetä aivoverisuonistossa.

VAROITUKSET

Tätä laitetta ei ole suunniteltu käytettäväksi atherektomialaitteiden kanssa. Tämän HI-TORQUE™ -ohjainlangan turvallisuutta ja tehokkuutta atherektomialaitteiden kanssa ei tunneta.

Laitteen päässä oleva lubrisse on tarkoitettu käytettäväksi vain sydämen verisuonistossa. Tämä laite on suunniteltu ja validoitu käytettäväksi vain 300.7MM. Laitteen turvallisuutta ja tehokkuutta uudelleenkäytössä muissa anatomisissa rakenteissa ei ole todettu.

Kun ohjainlanka on altistettu sepelvaltimoille, sitä on käsiteltävä laadukkaan fluoroskopiakuvauksen aikana.

Tässä laitteessa on hydrofiilinen pinnoite laitteen distaalipäässä 30 cm:n matkalta ja hydrofobinen polytetrafluorieteeni (PTFE) -pinnoite 143 cm:n matkalta HI-TORQUE PILOT 50 -ohjainlangassa ja PILOT 150 -ohjainlangassa.

Katso lisätietoja VALMISTELUVAIHE 3 -kohdasta siitä, miten laite valmistellaan ja käytetään niin, että se toimii tarkoitetulla tavalla. Jos varoituksia ei noudateta tässä osiossa, laite voi vaurioitua, mikä voi edellyttää toimenpiteen tai aiheuttaa vakavia haittatapahtumia.

Laitteen turvallisuutta ja tehokkuutta ei ole todettu tai se ei ole tunnettu muissa kuin erikseen mainituissa verisuonissa tai alueissa.

Henkilöt, joilla tiedetään olevan allergia jollekin tämän laitteen osalle, eikä heidän pitäisi käyttää tätä laitetta. Ennen käyttöä potilaalta pitää kysyä laitteessa olevista materiaaleista, ja perusteellinen allergiahistoria pitää käydä läpi. Tämä laite sisältää polysorbaatti 80:aa (Tween 80), polyetyleeniglykolia (PEG), silikonia, nikkeliä, titaania, polyuretaania, polytetrafluorieteeni (PTFE) -pinnoitetta, platinaa ja kultaa.

VAROITUKSET JA VAROTOIMET

Noudata huolellisesti alla olevia "Älä"- ja "Tee"-ohjeita. Ohjeiden laiminlyönti voi aiheuttaa verisuonivaurion, ohjainlangan vaurioitumisen, ohjainlangan kärjen irtoamisen tai rintavaurion. Jos vastusta havaitaan, määritä syy fluoroskopian avulla ja ryhdy tarvittaviin toimiin. Käytä potilaalle sopivinta ohjainlankaa hoidettavan leesion mukaan.

Älä

- Yritä vetää ohjainlankaa hitaasti, jos se tuntuu jumittuvan.
- Anna ohjainlangan olla jatkuvasti alttiina ympäristölle.
- Aseta stenttiä niin, että ohjainlanka jää kiinni stenttiin ja verisuonen seinämän väliin.

Älä koskaan

- Vedä tai työnnä ohjainlankaa hitaasti.
- Käytä laitetta, joka ei ole tarkoitettu käytettäväksi tällaisen vaurion hoitamiseen.
- Käytä ohjainlankaa ennen kuin olet tarkastellut sitä fluoroskopian avulla ennen kuin käsittelet, siirrät tai kierrät ohjainlankaa.
- Tarkkaile ohjainlangan kärkeä fluoroskopian avulla, sillä se voi taipua, mikä on merkki perforaatiosta.
- Huuhtele jatkuvasti ohjainlankaa poistaessasi ja asettaessasi sitä takaisin paikalleen, jotta ilmaa ei pääse katetrijärjestelmään.
- Käytä liikaa voimaa laitteen asettamisessa, käytössä tai poistamisessa.
- Kun vedät ohjainlankaa pois, varmista, että interventiolaitteen kärki on verisuonen sisällä ja että kärki on suuntautunut suonen seinämän suuntaisesti.
- Kierrä ohjainlankaa niin paljon, että kärjen liikkeet havaitaan.
- Käytä enemmän voimaa kuin on tarpeen laitteen vaurioitumisen estämiseksi. Hemostaasiventtiilin liian tiukka kiristäminen voi aiheuttaa pysyvän vaurion ohjainlankaan.
- Ota huomioon, että jos potilaalla on pysyvä sydämentahdistin, ohjainlanka voidaan joutua vetämään takaisin ennen stentin asettamista, koska metallisen verkkorakenteisen laitteen jääminen suonen seinämän ja stentin väliin lisää perforaation vaaraa.

Tee

- Käytä kiertolaitetta ohjainlangan hitaaseen etenemiseen.
- Käytä röntgenpositiivista merkkiä interventiolaitteessa sijainnin varmistamiseksi.
- Käytä ohjainlankaa yhdessä katetrin kanssa fluoroskopian avulla ennen ohjainlangan käsittelyä, siirtämistä tai kiertämistä.
- Tarkkaile ohjainlangan kärkeä fluoroskopian avulla, sillä se voi taipua, mikä on merkki perforaatiosta.
- Huuhtele jatkuvasti ohjainlankaa poistaessasi ja asettaessasi sitä takaisin paikalleen, jotta ilmaa ei pääse katetrijärjestelmään.
- Käytä vain sen verran voimaa kuin on tarpeen laitteen vaurioitumisen estämiseksi. Hemostaasiventtiilin liian tiukka kiristäminen voi aiheuttaa pysyvän vaurion ohjainlankaan.
- Ota huomioon, että jos potilaalla on pysyvä sydämentahdistin, ohjainlanka voidaan joutua vetämään takaisin ennen stentin asettamista, koska metallisen verkkorakenteisen laitteen jääminen suonen seinämän ja stentin väliin lisää perforaation vaaraa.

Tee

- Käytä kiertolaitetta ohjainlangan hitaaseen etenemiseen.
- Käytä röntgenpositiivista merkkiä interventiolaitteessa sijainnin varmistamiseksi.
- Käytä ohjainlankaa yhdessä katetrin kanssa fluoroskopian avulla ennen ohjainlangan käsittelyä, siirtämistä tai kiertämistä.
- Tarkkaile ohjainlangan kärkeä fluoroskopian avulla, sillä se voi taipua, mikä on merkki perforaatiosta.
- Huuhtele jatkuvasti ohjainlankaa poistaessasi ja asettaessasi sitä takaisin paikalleen, jotta ilmaa ei pääse katetrijärjestelmään.
- Käytä vain sen verran voimaa kuin on tarpeen laitteen vaurioitumisen estämiseksi. Hemostaasiventtiilin liian tiukka kiristäminen voi aiheuttaa pysyvän vaurion ohjainlankaan.
- Ota huomioon, että jos potilaalla on pysyvä sydämentahdistin, ohjainlanka voidaan joutua vetämään takaisin ennen stentin asettamista, koska metallisen verkkorakenteisen laitteen jääminen suonen seinämän ja stentin väliin lisää perforaation vaaraa.

Tabel 4: Analiza rezultata primarnog ishoda (sprovedena za žicu vodilja koja se ide u ciljanu lezijom), NACE ukljućuje definiciju ARC MI

	Ispitivani pacijenti sa ciljnom lezijom	Deviation 95 % Kis-O
Ishod provezan za žicom vodilom	72,2 % (721/736)	69,5 %, 66,7 %)
Potvrđeno postavljena žica vodje koja je bila uključena u dilataciji prvi lumen	83,1 % (124/138)	81,5 %, 68,4 %)
Ishod bez komplikacija MACE**	89,1 % (123/138)	87,7 %, 83,8 %)

** Nema se ne ARC MI.

Rezultati sekundarnog ishoda i drugi rezultati:

Rezultati sekundarnog ishoda u grafikonu 3 su prikazani za žicom vodilom ukljućuje sledeće:

- Uspešnost procene, definisana kao postizanje < 50 % rezidualne stenoze (slika lezije prilikom primene dodatnog procesa) u studiji, postignuta je u 89,1 % (123/138) kada je uključena u uspešnjenje, a 72,2 % (721/736) kada nije uključena u uspešnjenje (p < 0,001).
- Proceduralna uspešnost (≤30) procedurnog vremena iznosila je 86,01 (+46,64) minuta. Srednja vrijednost (≤30) vremena kontrastnog upotrebljenog tijekom postupka iznosila je 279,72 (+151,92) ml, a srednja vrijednost (≤30) fluoroskopije iznosila je 14,13 (+ 9,28) min.
- Proceduralna uspešnost ugrađenog procena bilo je 100 % (736/736).
- Klinički ishodi pacijenta (smrtnost u bolnici, ili ugradnja hitnog bypass-a) iznosili su 0,8 % (6/736) u bolnici. Bolnički MACE (smrtni događaj ARC MI) pojavio se u 18,87 % (139/736) bolnici, dok je ishod 72 % (139/736) uključio MI, dok ishodi uključuju u bolnici nije bio. Bolnički MACE (smrtni događaj ARC MI) pojavio se u 2,17 % (3/138) bolnici, dok je ishod 72 % (3/138) uključio MI, dok ishodi uključuju u bolnici nije bio. Prikazan rezultat bolničkog MACE tijekom se ne hijerarhijskim ljestvima sastavljen od ishoda u hijerarhijskom bolničkog MACE (tj. smrt, MI, TLR) koristi se za hijerarhijsku ljestvicu.

Tabela 5: Sažetak žica vodilje za uspešnjenje(a) u svrhe postupka – analiza na nivoi žice

	Ukupan broj uključenih žica vodilja	Broj žica namenjenih za procenu (% od ukupnog broja)	Broj uspešnih procena	% uspešno
Žica koja se ide u ciljanu lezijom	272	272 (82,2 %)	64	30,5 %
Žica koja nisu bila uključene u ciljanu lezijom	458	210 (45,6 %)	64	30,5 %

Predviđena sikurnost od strahovitih ili slike bineal testiran etter se vikendi anden vaskulare regioner med kun for specifikt er nævnt i denne brugsanvisning.

Personer med kendt allergi over for et af dette produkts komponenter, som er identificeret før brug, og som ikke skal anvende denne enhed, skal bemærkes. Inden brug af denne enhed skal patienten spørges vedrørende materialerne i produktet, og grundig gennemgang af patientens allergihistorie skal drøftes. Denne enhed indeholder polysorbat 80 (Tween 80), polyethylenglycol (PEG), silikone, nikkel, titanium, polyurethan, polytetrafluorethylen (PTFE)-belægning, platin og guld.

ADVARSLER OG FORHOLDSREGLER

Overhold omhyggeligt anvisningerne under "Ikke må ikke" og "Ikke skal" nedenfor. Manglende overholdelse kan resultere i skade på fartøjet, skade på guidewire, adskillelse af guidewire-spids eller brystskade. Hvis der observeres modstand på noget tidspunkt, skal årsagen bestemmes under fluoroskopi, og afhjælpende tiltag træffes efter behov. Brug den mest passende guidewire til den læsion, der behandles.

Ikke må

- Skubbe, slæbe, drejningsmoment eller vride en guidewire, hvis den møder modstand.
- Vride en guidewire, hvis spidsen bliver fanget inde i vaskulaturen.
- Lade guidewiren være eksponeret for omgivelserne.
- Anbringe et stent således, at wiren kan blive fanget mellem kar-væggen og stenten.

Ikke skal

- Fremføre eller tilbagetrække guidewiren langsomt.
- Anvende den guidewire, der ikke er hensigtsmæssige udstyr til at behandle læsionen.
- Anvende guidewiren bevægelser under fluoroskopi inden manipulering, bevægelse eller vridning af guidewiren.
- Observere wiren under fluoroskopi for krumning af spidsen, hvilket er et tegn på perforation.
- Opretholde kontinuerlig skyl under fjernelse og genindføring af guidewiren for at forhindre luft i at komme ind i kateter-systemet.
- Anvend overdreven kraft under indførelsen, brug eller fjernelse af ethvert udstyr.
- Bakkefør med genfremføring af guidewire, at det interventionelle udstyrs spids er fri within the vessel lumen and that the tip is parallel to the vessel wall.
- Drejningsmoment guidewiren ud over det punkt, hvor spidsbevægelse observeres.
- Udøve stærkere trykgreb, end er nødvendigt for at undgå skade på enheden. Overtrækning af hæmostase-ventilen kan resultere i permanent skade på guidewiren.
- Overvej, at hvis der er en permanent pacemaker til stede, kan guidewiren skulle tilbagetrækkes, inden stenten udrulles, da der er en øget risiko for perforering, når en metallisk wire-mesh enhed er fanget mellem karvæggen og stenten.

Gør

- Brug en drejningsmoment-enhed til at fremføre guidewiren langsomt.
- Brug det radiopake markørbånd på det interventionelle udstyr til at bekræfte placeringen.
- Brug guidewiren i forbindelse med ethvert kateter under fluoroskopi inden manipulering, bevægelse eller vridning af guidewiren.
- Observere wiren under fluoroskopi for krumning af spidsen, hvilket er et tegn på perforation.
- Opretholde kontinuerlig skyl under fjernelse og genindføring af guidewiren for at forhindre luft i at komme ind i kateter-systemet.
- Anvend kun den kraft, der er nødvendig for at undgå skade på enheden. Overtrækning af hæmostase-ventilen kan resultere i permanent skade på guidewiren.
- Overvej, at hvis der er en permanent pacemaker til stede, kan guidewiren skulle tilbagetrækkes, inden stenten udrulles, da der er en øget risiko for perforering, når en metallisk wire-mesh enhed er fanget mellem karvæggen og stenten.

Tabel 6: Analiza ishoda primarnog ishoda (sprovedena za žicu vodilja koja se ide u ciljanu lezijom), NACE ukljućuje definiciju ARC MI

	Ispitivani pacijenti sa ciljnom lezijom	Deviation 95 % Kis-O
Ishod provezan za žicom vodilom	72,2 % (721/736)	69,5 %, 66,7 %)
Potvrđeno postavljena žica vodje koja je bila uključena u dilataciji prvi lumen	83,1 % (124/138)	81,5 %, 68,4 %)
Ishod bez komplikacija MACE**	89,1 % (123/138)	87,7 %, 83,8 %)

** Nema se ne ARC MI.

Rezultati sekundarnih ishoda i drugi rezultati:

Rezultati sekundarnog ishoda u grafikonu 3 su prikazani za žicom vodilom ukljućuje sledeće:

- Uspešnost procene, definisana kao postizanje < 50 % rezidualne stenoze (slika lezije prilikom primene dodatnog procesa) u studiji, postignuta je u 89,1 % (123/138) kada je uključena u uspešnjenje, a 72,2 % (721/736) kada nije uključena u uspešnjenje (p < 0,001).
- Proceduralna uspešnost (≤30) procedurnog vremena iznosila je 86,01 (+46,64) minuta. Srednja vrijednost (≤30) vremena kontrastnog upotrebljenog tijekom postupka iznosila je 279,72 (+151,92) ml, a srednja vrijednost (≤30) fluoroskopije iznosila je 14,13 (+ 9,28) min.
- Proceduralna uspešnost ugrađenog procena bilo je 100 % (736/736).
- Klinički ishodi pacijenta (smrtnost u bolnici, ili ugradnja hitnog bypass-a) iznosili su 0,8 % (6/736) u bolnici. Bolnički MACE (smrtni događaj ARC MI) pojavio se u 18,87 % (139/736) bolnici, dok je ishod 72 % (139/736) uključio MI, dok ishodi uključuju u bolnici nije bio. Boln

TOTAL LENGTH of piece is 37-15/16"

5-1/2" 5-7/16" 5-3/8" 5-7/16" 5-3/8" 5-3/8"

TOTAL HEIGHT of piece is 13-7/16"

6-13/16" 6-5/8" 6-5/8"

HI-TORQUE™ Guide Wire

PLI-2124430-05 (2021-10-14)

℞ ONLY

CE 2797

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

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English

HI-TORQUE™ Guide Wire

CAUTION

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

Storage – Store in a dry, dark, cool place.

INTENDED PURPOSE

Guide Wires are intended to facilitate navigation across vascular anatomies and structures in order to deliver diagnostic and therapeutic devices.

INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA procedures. The Guide Wire is not intended for use in neurovascular or cerebral vascular procedures. The guide wire may be used to reach and cross a target lesion, provide a pathway within the vessel structure, facilitate the substitution of one diagnostic or interventional device for another, and support such devices. The guide wire may also be used to cross or accord in crossing an over-the-wire balloon dilatation catheter.

CONTRAINDICATIONS

Do not use in the cerebral vasculature.

WARNINGS

This device is not designed for use with atherectomy devices. The safety and effectiveness of the use of this HI-TORQUE™ Guide Wire with atherectomy devices is unknown.

The lifetime of the device is limited to the labeled shelf life. This device is designed and validated for ONE-TIME USE ONLY. Do not resterilize and / or reuse. The safety and effectiveness of this device for more than one use has not been established. Reuse may result in:

When the guide wire is exposed to the coronary system, it should be manipulated while under high quality fluoroscopic observation.

This device has a hydrophilic coating at the distal end of the device for a length of 30 cm and a hydrophobic polytetrafluoroethylene (PTFE) coating for a length of 143 cm for the HI-TORQUE™ Guide Wire 300 cm.

Refer to PREPARATION STEP, #2 section for further information on how to prepare and use this device to ensure it performs as intended. Failure to abide by the warnings in this section may result in damage to the guide wire, device coating, which may necessitate intervention or result in serious adverse events.

The safety and effectiveness of the device have not been established, or is unknown, in vessel regions other than those specifically indicated.

Persons with known history of allergies to any of the components of this device should be carefully evaluated before use of the device. If the device is used in the face of such a patient, the patient should be monitored and the materials contained in the device and a thorough history of allergies must be discussed. This device contains phthalate-containing plasticizer. Phthalates may be released during use. Phthalates are known to be polyoxyethoxylated (POE) coating, PTFE coating, epoxy adhesive, and urethane.

Carefully observe the instructions under "Do Not" and "Do" below. Failure to do so may result in vessel trauma, guide wire damage, guide wire tip separation, or clot damage. If resistance is observed at any time, determine the cause under fluoroscopy and take remedial action as needed. Use the most suitable guide wire for the lesion being treated.

Do Not

- Pull, torque, advance or torque a guide wire that meets resistance.
- Torque a guide wire if the tip becomes entrapped within the vasculature.
- Torque a guide wire if the tip is not visualized fluoroscopically.
- Expose a stored guide wire to temperatures between the vessel wall and the sheet.

Do

- Gently re-withdraw the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Keep the guide wire tip under constant fluoroscopy before manipulating, moving or torquing the guide wire.
- Observe the wire under fluoroscopy for tip buckling, which is a sign of resistance.
- Maintain continuous flush while removing and reinserting the guide wire to prevent air from entering the catheter system.
- Use a torque device to control the guide wire and / or trauma.
- When withdrawing the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Use a compatible introducer sheath to minimize the potential for damage to the guide wire, or through clot shock, into a fabricated vessel. Use of this technique involves additional patient risks, including the risk that the wire may become knotted or the tip damaged.
- Consider that if a guide wire tip is injured in a bifurcation branch, this wire may need to be retracted prior to stent deployment, because there is additional risk that the secondary wire may become entrapped between the vessel wall and the stent.

Table 1

Product Name	Basic UDI-DI	Distribution Number
HI-TORQUE PILOT 50 Guide Wire		
HI-TORQUE PILOT 150 Guide Wire HI-TORQUE PILOT 200 Guide Wire	07175462099835XS	Electron-beam Irradiation

The HI-TORQUE™ family of Guide Wires are medical devices that are intended for use in PCA and PTA to treat patients with coronary or peripheral artery disease as specified in adjunct to balloon dilatation catheters. These devices are designed to guide wires to various coronary lengths and diameters and to serve as a fluoroscopic guide for the product lesion. Various configurations (e.g., wire length, diameter, and tip) of the subsystem.

Coronary guide wires facilitate PTCA and PTA, which offer clinical benefits for treatment of coronary artery disease (CAD). PTCA and PTA are palliative treatments for coronary artery disease.

HI-TORQUE Extendable Guide Wires: Some HI-TORQUE Guide Wires have a modified proximal end that permits the attachment of the over the wire (OTW) Guide Wire Extension. Refer to the HI-TORQUE™ Guide Wire Extension Instructions for Use for information on how to use Wire Extension. Wire Extension facilitates the exchange of one interventional device for another, while maintaining guide wire position in the anatomy. After the interventional device has been removed from the guidewire, the extension can be detached and the guide wire can be used in the angiographic suite.

.014" (0.36 mm) HI-TORQUE Guide Wires with Proximal Markers: Brachial and femoral markers located on the proximal segment of the 0.014" (0.36 mm) guide wire. The guiding gauge wire position relative to the guiding catheter tip when using two wire techniques. The markers are spaced at 1 cm intervals with a group of 3 at least 10 cm (inclusive) on 1cm (inclusive) spacing.

HI-TORQUE Guide Wires with Distal Radiopaque Markers: Some HI-TORQUE Guide Wires have a distal radiopaque marker. The marker is used under fluoroscopy to help determine the precise location of the markers. Markers are approximated by the following designation: ■ A series of spaced markers are provided proximal to the coil assembly for guiding catheter sizing.

HOW SUPPLIED

Sterile – Sterilized with electron-beam radiation. Refer to the product label for the sterilization expiration date. Do not use if the package is damaged or opened.

This single-use device cannot be resterilized or reused. Resterilization and / or reuse may create the potential risk of device contamination and / or failure to perform as intended. Reuse may also result in cross contamination because of inadequate cleaning and / or sterilization of a previously used device. Damage of original labeling may limit the ability to reuse and eliminate traceability. Absence of original packaging may lead to device damage, loss of sterility, or failure to perform as intended before use or use.

Contents – One (1) guide wire per pouch.

Table 2: Kurvaturradii Guide Wire

Kurvaturradius Guide Wire	Knickdraht Guide Wire M = 700*	Kalotte ET1 ohne TSN Guide Wire M = 700*
Guide Wire Prentiss prong Dygnokan (Berbasis Sabah)	1 gram wire penetration	1 gram wire penetration
1 gram wire penetration	51.5% (71/138)	76.1% (105/138)
2 gram wire penetration	76.1% (105/138)	94.2% (130/138)
3 gram wire penetration	14.5% (20/138)	97.8% (135/138)
4 gram wire penetration	3.6% (5/138)	98.6% (136/138)
Schlitzlänge 5 gram wire dynamic	3.6% (5/138)	98.6% (136/138)
Perangkat Perkutaneus Guide Wire Vaskular (Berbasis Sabah)	36.2% (50/138)	98.6% (136/138)
1 perangkat intervensi dipasangkan	25.4% (35/138)	98.6% (136/138)
Infiltrative 2 perangkat intervensi dipasangkan	25.4% (35/138)	98.6% (136/138)
Guide Wire yang Berbasil Mobilisasi Lesi (Level Wire)*	35.1% (140/423)	98.6% (136/138)
Guide wire penetration pada lesi yang berbasil mobilisasi	39.6% (167/423)	98.6% (136/138)
Guide wire busan penetrasi yang berbasil mobilisasi lesi**	30.5% (64/210)	98.6% (136/138)
Perangkat Mobilisasi Lesi Guide Wire	18.9% (40)	98.6% (136/138)
Pesan Guide Wire Penetrasi (Level Guide Wire)		
Wire Sigi***	34.9% (90/258)	
Mahitas	82.2% (212/258)	
Alasan lain	1.9% (5/258)	
Metode Pelindung untuk Guide Wire*		
Wire Sigi***	81.9% (288/414)	
Pelindung mpu (atau metode lainnya)	78.9% (314/414)	
Lihat	5.8% (14/414)	
Wire knuckle	1.9% (4/414)	
Wire parallel	1.2% (3/414)	
Mandai Saja	13.7% (46/414)	
Perkiraan hambar	12.7% (40/414)	
Wire knuckle	1.7% (4/414)	
Gelenggan Mpu dan Mandai	2.2% (7/414)	
CARE	0.2% (1/414)	
CARE Berbasis	0.2% (1/414)	
Tekniik kissing wire	0.2% (1/414)	
Lainnya	0.1% (1/414)	
Subliminal	1.1% (4/414)	
Dokter-Hasi dan metode muscle terminal	0.2% (1/414)	
Penekatan Sejati digunakan	0.2% (1/414)	

* Jumlah guide wire memukau jumlah guide wire penetrasi, guide wire nonpenetrasi, dan guide wire yang tidak diketahui apakah penetrasi atau nonpenetrasi. Jumlah ini mewakili jumlah yang diketahui, dikumpulkan, dan dilaporkan.

** Studi 29489-0001 menilai guide wire yang berhasil melintasi lesi, tapi dapat menembus atau tidak menembus lesi.

*** Satu Subjek 2743-0001 menerima "Wire Saw" sebagai metode Pelindung, tapi tanpa membuat penilaian.

**** Analisis metode pengelompokan dilakukan pada guide wire penetrasi, guide wire nonpenetrasi, dan perangkat mikrokateter lainnya.

Kurvaturradius Guide Device

Setiap HT rumus lain akan menjadi guide wire memiliki ratio efektif (e = 0,25 -57,11 to 72,73 Guide Wire Prentiss prong Dygnokan (Berbasis Sabah)

TOTAL LENGTH of piece is 37-15/16"

5-1/2" | 5-7/16" | 5-3/8" | 5-7/16" | 5-7/16" | 5-3/8" | 5-3/8"

TOTAL HEIGHT of piece is 13- 7/16"

6-5/8" | 6-13/16" | 6-5/8"

English

HI-TORQUE™ Guide Wire

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

A summary of the safety and clinical performance (SSCP) for this device is available at https://ec.europa.eu/tools/eudamed after the device entry for Basis UDI-DI 08717540G0005V5 or from the SSCP location after the launch of the European Database on Medical Devices / EUDAMED.

This Instruction For Use as per Regulation (EU) 2017/745 can be found on the Abbott eLabelling website at *ifucentral.ifu.abbott*.

DESCRIPTION

This Instructions For Use pertains to the HI-TORQUE PILOT™ 50, HI-TORQUE PILOT 150, and HI-TORQUE PILOT 200 Guide Wires.

Table 1

Product Name	Basic UDI-DI	Sterilization Method
HI-TORQUE PILOT 50 Guide Wire	8717540G0005V5	Electron-beam Radiation
HI-TORQUE PILOT 150 Guide Wire		
HI-TORQUE PILOT 200 Guide Wire		

The HI-TORQUE™ Family of Guide Wires are medical devices that are indicated for use in PCA and PTA to treat patients with coronary or peripheral artery disease as specified in subsequent sections of these instructions. The Guide Wires are available in various lengths and diameters and have a fluoropolymer distal tip. Refer to the product label for complete dimensional data (e.g., wire length, diameter, and length of the tip/shaft).

Coronary guide wires facilitate PTCA and PTA, which offer clinical benefits for treatment of coronary artery disease. PTA may also offer clinical benefits for peripheral vascular disease.

HI-TORQUE Extendable Guide Wire Extension: The HI-TORQUE Guide Wires have a modified proximal end that permits the attachment of the DOC™ Guide Wire Extension. Refer to the DOC™ Guide Wire Extension Instructions For Use for complete details. The DOC™ Guide Wire Extension maintains wire facilitates the exchange of one interventional device for another, while maintaining guide wire position in the anatomy. After the interventional device has been removed from the patient, the extension can be detached and the guide wire can be used as the original system.

.014" (0.36 mm) HI-TORQUE Guide Wires with Proximal Markers: Brachial and femoral markers located on the proximal segment of the 0.014" (0.36 mm) guide wires are gauging guide wire position relative to the guiding catheter tip when using bare wire techniques. The markers are also used to measure lesion length when used with a 3.0 mm (blue) or 5.0 mm (brown) marker band.

HI-TORQUE Guide Wires with Hydrophilic Coating: Refer to the product label for hydrophilic coating.

HOW SUPPLIED

Sterile – Sterilized with electron-beam radiation. Refer to the product label for the sterilization method. Do not resterilize if the package is open or damaged.

This single-use device cannot be resterilized. After use, it is not designed to be returned to Abbott Vascular. Abbott Vascular is not responsible for any reprocessing, chemical compatibility, physical alteration and conditions of repeated use, cleaning, and/ or resterilization may compromise the integrity of the design and / or materials, leading to device malfunction and / or failure. Abbott Vascular is not responsible for any loss or performance of the device. Absence of original labeling may lead to literature mix and eliminate traceability. Absence of original packaging may lead to device damage, loss of sterility, and / or failure to open the device and / or use.

Contents – One (1) guide wire per pouch.

Storage – Store in a dry, dark, cool place.

INTENDED PURPOSE

Guide Wires are intended to facilitate navigation across vascular anatomies and structures in order to deliver diagnostic and therapeutic devices.

INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA and PTA. The Guide Wires are also indicated for use in conjunction with the following procedures: The guide wire may be used to reach and cross a target lesion, provide a pathway within the vessel structure.Facilitate the substitution of one diagnostic or therapeutic device for another. The guide wire may be used to cross a total occlusion. It may also be used to cross or succeed in crossing a new chronic total coronary occlusion (CTO).

CONTRAINDICATIONS

Not indicated for use in the cerebral vasculature.

WARNINGS

This device is not designed for use with atherectomy devices. The safety and effectiveness of the use of this HI-TORQUE™ Guide Wire with atherectomy devices is unknown.

The lifetime of the device is the labeled shelf life. This device is designed and validated for ONE-TIME USE ONLY. Do not resterilize and / or reuse. The safety and effectiveness of this device for more than one use has not been established.

When the guide wire is inserted in the coronary system, it should be manipulated with under high quality fluoroscopic observation.

This device has a hydrophilic coating at the distal end of the device for a length of 30 cm and a hydrophobic polytetrafluoroethylene (PTFE) coating for a length of 143 cm for the 0.014" (0.36 mm) HI-TORQUE™ Guide Wires.

Refer to PREPARATION FOR USE section for further information on how to prepare and use this device to ensure it performs as intended. Failure to abide by the warnings in this section may result in damage to the device, device coating, which may necessitate intervention or result in serious adverse events.

The safety and effectiveness of the device have not been established in children, or in women who are or may become pregnant.

Persons with known history of allergies to any of the components of this device should not use this device. Before using this device in patients with a history of allergy to the patient, the patient should be examined on the materials contained in the device and a thorough history of allergies must be discussed. This device contains platinum-tungsten, nickel-titanium, stainless steel, gold, silver, polyimide, polyurethane, polytetrafluoroethylene (PTFE) coating, PTFE coating, epoxy adhesive, and urethane.

Carefully observe the instructions under "Do Not" and "Do" below. Failure to do so may result in vessel trauma, guide wire damage, guide wire tip separation, or short damage. If resistance is observed at any time, determine the cause under fluoroscopy and take remedial action as needed. Use the next suitable guide wire for the lesion being treated.

Do Not

- Push, auger, withdraw or torque a guide wire that meets resistance.
- Torque a guide wire if the tip becomes entrapped within the vasculature.
- Use a guide wire that has been bent under fluoroscopy.
- Deploy a stent across a bent wire that lies between the vessel wall and the stent.

Do

- Torque or withdraw the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Use the guide wire to cross the lesion under fluoroscopy. Remove inadvertently moving or torquing the guide wire as necessary.
- Observe the wire under fluoroscopy for buckling, which is a sign of resistance.
- Maintain continuous flush while removing and reinserting the guide wire to prevent air from entering the catheter system.
- Use caution when using the guide wire near stents and / or trauma.
- When contraindicating the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Use caution when withdrawing the guide wire into the guiding catheter. Withdraw the stent, or through stent struts, into a bifurcated vessel. Use of this technique involves additional patient risks, including the risk that the wire may become kinked or damaged.
- Consider that if a secondary wire is required in a bifurcation branch, this wire may need to be retracted prior to stent deployment, because there is additional risk that the secondary wire may become entrapped between the vessel wall and the stent.

For the HI-TORQUE PILOT™ Family of Guide Wires only: The HI-TORQUE PILOT Guide Wires are intended for use in the coronary vasculature only. Do not use in other vessels carefully due to injure the blood vessel. Observe the information in these instructions. The higher torque performance, stiffer distal ends, and / or smaller diameters of these guide wires may increase the risk of vessel trauma. Use a guide wire with a more pliable distal end. Therefore, use the guide wire with the least stiff distal end that will treat the lesion, and use extreme care to minimize the risk of perforation or other damage to blood vessels.

LIMITATIONS

The HI-TORQUE™ Guide Wires do not have a specific limitation in duration of use but are designed for vascular procedures that vary in duration depending on lesion complexity.

Resistance between interventional devices and guide wires may result in vessel damage and / or device damage.

PRECAUTIONS

Guide wires are delicate instruments and should be handled carefully. Prior to use and when possible during the procedure, inspect the guide wire carefully for bends, kinks, or damage. Do not use if damage is suspected. Damage to the guide wire may result in vessel damage and / or device damage.

Confirm the compatibility of the guide wire diameter with the interventional device before actual use.

Refer to the indication on the label and the instructions for Use to confirm the interventional devices that are to be used with the guide wire. Failure to abide by the above recommendation may result in risk mismatch of blood vessel and guide wire, which can result in vessel injury, such as, but not limited to, perforation, dissection, rupture, or spasm.

The safety and effectiveness of the HI-TORQUE™ Guide Wire have not been established in the pediatric population.

For movement of the guide wire within the interventional device is an important feature of a steerable guide wire system, because it gives the user valuable tactile information. The HI-TORQUE™ Guide Wires are designed to be used in a system that is not fitted with an adjustable valve and it is found to exhibit guide wire movement. It is recommended that the user determine the source of resistance, exercise caution when removing the guide wire, and consider using a valve that is safe, and designed for the device, that will complete the procedure.

Never attach the torque device to the modified portion of the proximal end of the HI-TORQUE™ Guide Wire. Damage to the guide wire may compromise the ability to attach the DOC™ Guide Wire Extension.

HI-TORQUE Guide Wires with Hydrophilic Coating: Avoid abrasion of the hydrophilic coating. Do not wipe the guide wire with gauze or immerse in solvents. Avoid contact with cutdowns or devices made of polyurethane, polyurethane, and / or silicone. Wetting the hydrophilic coating with a sterile heparin solution will help maintain the lubricity of the hydrophilic coating.

When wet, a hydrophilic coating increases the lubricity of the guide wire surface.

Do not soak the guide wire for more than 4 hours when the device is not in use. Avoid prestoaking devices for longer than instructed, as this may impact the coating performance.

Do not use the guide wire if the hydrophilic coating is damaged. Take care of the following precautions:

The integrity and performance of the device coating can be negatively impacted by improper manipulation and handling of the device. Take note of the following handling recommendations:

Avoid touching the device with dry gauze as this may damage the device coating.

Avoid excessive wiping of the device coating.

Avoid using alcohol, antiseptic solutions, or other solvents (e.g., use of medications and solutions) to prep the device because this may cause unpredictable changes to the coating which could negatively affect the safety and performance of the guide wire.

Attempting to alter the shape of a hydrophilic coated guide wire, or similar device, from instructed methods may compromise the coating integrity, and that damage to the coating may result in vessel trauma and / or device failure.

One or more components of this device may contain the following substances as defined as CMR 1A or a valve (primary) where the medical device is implanted or has direct contact with the heart muscle or central circulatory system: Lead.

Current scientific evidence supports that medical devices containing these substances meet allergy containing cobalt do not cause an increased risk of cancer or adverse reproductive effects.

After use, this product may be a potential biohazard. Handle and dispose of it in accordance with accepted medical practice and applicable local, state, and federal laws and regulations.

ADVERSE EVENTS

Potential adverse events associated with use of this device may include the following, but are not limited to:

- Allergic reaction or hypersensitivity to: blood, contrast agent, anesthesia, device materials
- Perforation
- Dissection
- Rupture
- Stenosis / restenosis
- Occlusion
- Thrombosis
- Myocardial infarction
- Embolism
- Spasm
- Arterial / pseudoaneurysm
- Infection
- Hemorrhage/bleeding
- Hematoma
- Hypotension
- Arteriovenous fistula

REPORTING OF ADVERSE EVENTS

The user and / or patient should report any serious incident that has occurred in relation to this HI-TORQUE™ Guide Wire to the manufacturer and the competent authority of the Member State in which the user and / or patient is established.

EVALUATION OF CLINICAL PERFORMANCE FOR HI-TORQUE™ GUIDE WIRES IN REMODELCRUSTION OF CTO LESIONS

Chronic total occlusion (CTO) lesions represent a particularly complex subset of lesions and, therefore, the HI-TORQUE PROGRESS / HI-TORQUE PILOT Guide Wire indication for use in CTO lesions was supported by clinical performance data from the HI-TORQUE PROGRESS clinical trial.

OBSERVED ADVERSE EVENTS

The HI-TORQUE PROGRESS™ 50 Guide wire-related studied the study in hospital (MAE [MC MI definition) occurred in 10.87% (15/138) of the subjects, with 0.72% (1/138) experiencing clinically driven target lesion revascularization (TLR). 10.87% (15/138) experiencing MI, and no in-hospital death. Procedural MI occurred in 7.97% (11/138) of the subjects, with 2.17% (3/138) of the subjects, with 2.17% (3

TOTAL LENGTH of piece is 37-15/16"

5-1/2" | 5-7/16" | 5-3/8" | 5-7/16" | 5-3/8" | 5-7/16" | 5-3/8" | 5-3/8"

TOTAL HEIGHT of piece is 13- 7/16"

6-5/8" | 6-13/16" | 6-5/8"

FRONT SIDE OF PIECE

INSIDE OF PIECE

English

HI-TORQUE™ Guide Wire

CAUTIONS

This medical device should be used only by physicians trained in angiography and percutaneous transluminal coronary angioplasty (PTCA), and / or percutaneous transluminal angioplasty (PTA).

CAREFULLY READ ALL INSTRUCTIONS PRIOR TO USE. OBSERVE ALL WARNINGS AND PRECAUTIONS NOTED THROUGHOUT THESE INSTRUCTIONS. FAILURE TO DO SO MAY RESULT IN COMPLICATIONS.

Refer to the instructions supplied with any interventional devices to be used in conjunction with the HI-TORQUE™ Guide Wire, for their intended uses, contraindications, and potential complications.

A summary of the safety and clinical performance (SSCP) for this device is available at https://ec.europa.eu/tools/eudamed after the device using the Basic UDI-DI listed in Table 1 has been registered and the Issued on Date of the SSCP Database on Medical Devices / EUDAMED.

This Instructions for Use as per European Regulation (EU) 2017/745 can be found on the Abbott eLabeling website at vascular.eifu.abbott.

DESCRIPTION

This Instructions for Use pertains to the HI-TORQUE PILOT™ 50, HI-TORQUE PILOT 150, and HI-TORQUE PILOT 200 Guide Wires.

Table 1

Product Name	Basic UDI-DI	Sterilization Method
HI-TORQUE PILOT 50 Guide Wire	(01)10400009005045 (21)Traitement stérilisant	Electron-beam Radiation
HI-TORQUE PILOT 150 Guide Wire		
HI-TORQUE PILOT 200 Guide Wire		

The HI-TORQUE™ family of Guide Wires are medical devices that are intended for use in PCIA and PTA to treat patients with coronary or peripheral artery disease as specified in subsequent sections of these instructions. These devices are available in a variety of lengths, outer diameters and have a hydrophilic coating that may be applied by the distal user. See product specification (e.g., web length, diameter, and length of the radiopaque).

Coronary guide wires facilitate PTCA and PTA, which offer clinical benefits for treatment of coronary artery disease (CAD). Peripheral guide wires facilitate peripheral procedures.

HI-TORQUE Extendable Guide Wires: Some HI-TORQUE Guide Wires have a modified proximal end that permits the attachment of the DOC™ Guide Wire Extension. Refer to the DOC™ Guide Wire Extension Instructions for Use for more information. The DOC™ Wire Extension is a single use device that facilitates the exchange of one interventional device for another, while maintaining guide wire position in the anatomy. After the interventional device has been removed from the patient, the extension can be detached and the guide wire can be used as a single segment.

.01" (0.36 mm) HI-TORQUE Guide Wire Marker Wrapping: Brachial and femoral markers located on the proximal segment of the 0.010" (0.36 mm) guide wires and in gauging guide wire position relative to the guiding catheter tip when using bare wire techniques. The .01" (0.36 mm) guide wires have a proximal marker band set at least 90 cm (inches) from (distal to) the tip.

HI-TORQUE Guide Wires with Hydrophilic Coating: Refer to the product label for hydrophilic coating information.

HOW SUPPLIED

Sterile – Sterilized with electron-beam radiation. Refer to the product label for the sterilization method information. Do not use if the package is open or damaged.

This single-use device cannot be resterilized or another patient, as it is not designed to withstand additional processing. Such actions may create a risk of infection or cross-contamination of one patient to another. This may result in patient injury, illness, or death. Repeated use, cleaning, and or resterilization may compromise the integrity of the design and / or materials, leading to device contamination and / or failure. Cleaning and resterilization may also affect the performance of the device. Absence of original labeling may lead to device misuse and eliminate traceability. Absence of original packaging may lead to device damage, loss of sterility, or failure to perform as intended before the user.

Contents – One (1) guide wire per pouch.

Sterile – Store in a dry, dark, cool place.

INTENDED PURPOSE

Guide Wires are intended to facilitate navigation across vascular anatomies and structures in order to deliver diagnostic and therapeutic devices.

INDICATIONS FOR USE

Indicated to facilitate the delivery of catheter-based interventional devices during PTCA and PTA. The .01" (0.36 mm) guide wires are indicated for use in coronary and peripheral procedures. The guide wires may be used to reach and cross a target lesion, provide a pathway within the vessel structure, facilitate the substitution of one diagnostic or therapeutic device for another, and support the advancement of devices. The guide wires also be used to cross or assist in crossing an ostial coronary lesion (ostial coronary occlusions (CTO)).

CONTRAINDICATIONS

Not indicated for use in the cerebral vasculature.

WARNINGS

This device is not designed for use with atherectomy devices. The safety and effectiveness of the use of this HI-TORQUE™ Guide Wire with atherectomy devices is unknown.

The lifetime of this device is the labeled shelf life. This device is designed and intended for ONE-TIME USE ONLY. Do not resterilize and / or reuse. The safety and effectiveness of this device for more than one use has not been established.

When the guide wire is crossed in the vascular system, it should be manipulated while under high quality fluoroscopic observation.

This device has a hydrophilic coating at the distal end of the device for a length of 30 cm and a hydrophobic polytetrafluoroethylene (PTFE) coating for a length of 143 cm for the PILOT 50, PILOT 150, and PILOT 200.

Refer to PREPARATION FOR USE section for further information on how to prepare and use this device to ensure it performs as intended. Failure to abide by the warnings in this section may result in damage to the device, device coating, which may necessitate intervention or result in serious adverse events.

The safety and effectiveness of the device have not been established in, or in subsequent, vessels/ regions other than those specifically indicated.

Persons with known history of allergies to any of the components of this device, including nickel, titanium, stainless steel, polymers, and / or coatings, may be at risk for the patient. The patient should be counseled on the materials contained in the device and a thorough history of allergies must be discussed. This device contains platinum-tungsten alloy, nickel-titanium alloy, stainless steel, polyimide, polyurethane, polyvinylpyrrolidone (PVP), PTFE coating, parylene, adhesives, and urethane.

Carefully observe the instructions under "Do Not" and "Do" below. Failure to do so may result in vessel trauma, guide wire damage, guide wire tip separation, or short damage. If resistance is observed at any time, determine the cause under fluoroscopy and take remedial action as needed. Use the most suitable guide wire for the lesion being treated.

Do Not

- Push, auger, withdraw or torque a guide wire that meets resistance.
- Torque a guide wire if the tip becomes entrapped within the vasculature.
- Torque a guide wire that has a damaged proximal end.
- Display a short shaft that it will entrap the wire between the vessel wall and the sheet.

Do

- Advance or withdraw the guide wire slowly.
- Use the radiopaque marker of the interventional device to confirm position.
- Keep the guide wire distal tip under continuous fluoroscopy before manipulating, moving or torquing the guide wire.
- Observe the wire under fluoroscopy for tip buckling, which is a sign of resistance.
- Maintain continuous fluids while removing and reinserting the guide wire to prevent air from entering the catheter system.
- Use caution when using the guide wire near stents and / or trauma.
- When reintroducing the guide wire, confirm that the interventional device tip is free within the vessel lumen and that the tip is parallel to the vessel wall.
- Use caution when introducing or removing the guide wire into a guiding catheter. One or more components of the device may contain the following substances defined as CMR 1B in a concentration above 0.1% weight by weight: Cobalt, Chemical Abstracts Service (CAS) 7440-48-4, EC 231-158-0.

Key Inclusion / Exclusion Criteria

Key inclusion criteria for clinical programs considered typical of ischemic heart disease candidates scheduled for a PCIA or native coronary artery, which were suitable for a percutaneous revascularization, were included. Subjects with evidence of acute myocardial infarction (AMI) ≤ 72 hours, left ventricular ejection fraction (LVEF) < 30%, or cardiogenic shock or de novo lesion width at least one target segment in a native coronary vessel meeting the definition of chronic total occlusion. Only one target lesion was allowed to be treated.

ADVERSE EVENTS

Potential adverse events associated with use of this device may include the following, but are not limited to:

- Allergic reaction or hypersensitivity to latex, contrast agent, anesthetic, device materials, and / or drugs/ medications for anticoagulation, or antiplatelet drugs
- Perforation
- Dissection
- Thrombus
- Stenosis / restenosis
- Occlusion
- Vasospasm
- Myocardial infarction
- Embolism
- Death
- Arterio / pseudoaneurysm
- Infection
- Hemorrhage/bleeding
- Hypotension
- Hypertension
- Arrhythmia
- Death

REPORTING OF ADVERSE EVENTS

The user and / or patient should report any serious incident that has occurred in relation to this HI-TORQUE™ Guide Wire to the manufacturer and the competent authority of the Member State in which the user and / or patient is established, if applicable.

DURATION OF HI-TORQUE PROGRESS™ / HI-TORQUE PILOT™ GUIDE WIRES IN REMODELLING/DURATION OF CTO LESIONS

Chronic total occlusion (CTO) lesions represent a particularly complex subset of lesions and, therefore, the HI-TORQUE PROGRESS / HI-TORQUE PILOT Guide Wire indication for use in CTO lesions was limited to 30 days. Lesions were considered CTOs if TIMI flow grade 0 or 1.

OBSERVED ADVERSE EVENTS

Clinical Experience: In the CTO trial, the guide wire-related the objective of the study in-hospital (MACE) rate (MACE defined as death, Q-wave MI, or CABG) was 0.0% (0/108) of the subjects, with 0.0% (1/138) experiencing clinically driven target lesion revascularization (TLR). 10.87% (15/138) experiencing clinically driven target vessel revascularization (TVR). 10.87% (15/138) experiencing clinically driven target lesion revascularization (TLR). 0.0% (0/138) experiencing MACE, and no in-hospital death.

CLINICAL AND LABORATORY RESULTS

The DEPICT CTO trial is a prospective, multi-center, single-arm study. Approximately 250 subjects with a single de novo CTO lesion (occlusion ≥20 days and ≤ 3 months in duration, calcium of moderate to severe, proximal cap ambiguity, tortuosity, and / or vessel diameter) elective, attempted CTO percutaneous revascularization. The primary objective of this study is to assess the safety and effectiveness of the HI-TORQUE™ Extendable Guide Wire and DOC™ Guide Wire Extension / Vance Extension Kit(Vance Extension) in the ANTEGRADE WIRE ESCALATION™ (i.e., Escalation) Guidewire System for the treatment of chronic total coronary occlusions.

Another key objective of the DEPICT CTO trial was to assess the safety and effectiveness of the HI-TORQUE™ Extendable Guide Wire and DOC™ Guide Wire Extension / Vance Extension Kit in CTO lesions. To assess the guide wire-related objective of the trial, for at least the initial 138 subjects enrolled, HI-TORQUE PROGRESS or HI-TORQUE PILOT Guide Wires were used for a total of 208 lesions. Of the 208 lesions, 138 HI-TORQUE PROGRESS or HI-TORQUE PILOT Guide Wires were allowed to be used for recanalization.

Of the 138 subjects with forty-eight (48) HI-TORQUE PILOT Guide Wires and one hundred and ten (110) HI-TORQUE PROGRESS Guide Wires were used for a total of 208 study guide wires. In addition, 400 non-study guide wires and 72 other recanalization devices were used in the 138 subjects. Of the 208 study guide wires, 70 were used as primary guide wires. In HI-TORQUE PILOT Guide Wires compared 25.0% (12/48) and in HI-TORQUE PROGRESS Guide Wires comprised 15.3% (17/110). Study guide wires were used as secondary guide wires in 138 subjects, 66.3% (92/138) of the subjects. In 21.1% (29/138) only one study guide wire was used, in 28.1% (39/138) two study guide wires were used, in 14.5% (20/138) three study guide wires were used, and in the remaining patients (2.9%, 11/138) four or more study guide wires were used.

Key Inclusion / Exclusion Criteria

Key inclusion criteria for clinical programs considered typical of ischemic heart disease candidates scheduled for a PCIA or native coronary artery, which were suitable for a percutaneous revascularization, were included. Subjects with evidence of acute myocardial infarction (AMI) ≤ 72 hours, left ventricular ejection fraction (LVEF) < 30%, or cardiogenic shock or de novo lesion width at least one target segment in a native coronary vessel meeting the definition of chronic total occlusion. Only one target lesion was allowed to be treated.

Primary Endpoint

The intended indication for the HI-TORQUE PROGRESS and HI-TORQUE PILOT Guide Wires includes its crossing, or to assist in crossing, de novo chronic total coronary occlusions. Therefore, the guide wire-related primary endpoint was based on procedural success, defined as the ability to cross the CTO lesion with a guide wire, exchange a coin size, and was not restricted to crossing of the study guide wire only.

The guide wire-related primary endpoint was successful recanalization of the CTO defined as:

1. Confirmation of placement of the guide wire in the distal true lumen and
2. Absence of in-hospital MACE

This guide wire-related endpoint was assessed among the first 138 subjects, where any attempted was made to cross the target lesion with HI-TORQUE PROGRESS or HI-TORQUE PILOT Guide Wires.

Statistical Analysis

This guide wire-related primary endpoint of successful recanalization of the CTO was compared with a performance goal (PG) of 82.5% derive from 3 historical CTO studies reporting procedural success and absence of in-hospital MACE. The sample size for the primary endpoint was based on a PG of 82.5% and a one-sided test at the 2.5% level was made to show the lower limit of the 95% confidence interval (CI) exceeds the PG. Using Guide Wires. Assuming the HI-TORQUE PROGRESS or HI-TORQUE PILOT Guide Wires success rate is 90%, a sample size of 138 subjects will have 90% power to show success rate from the 3 target vessels will develop the PG, and using a type I error rate of 0.05 to reject the null hypothesis, the power of this comparison is approximately 82% (assuming a normal approximation to the binomial distribution). The primary guide wire-related endpoint is the proportion of subjects in each stratum of blood vessel and guide wire, which the first 138 subjects, in whom any attempt was made to cross the target lesion with HI-TORQUE PROGRESS or HI-TORQUE PILOT Guide Wires.

Table 2: Guide Wire Characteristics

Guide Wire Characteristics	DT Subjects for Guide Wire, n/N (%) (N = 138 Subjects, N = 208 Guide wires)
Study Guide wire Used (Subject Based)	100.0% (138/138)
1 study wire used	21.1% (29/138)
2 study wires used	28.1% (39/138)
3 study wires used	14.5% (20/138)
4 study wires used	4.3% (6/138)
5 or more study wires used	2.9% (4/138)
Other Recanalization Device (Subject Based)	36.2% (50/138)
1 recanalization device	19.6% (27/138)
2 or more recanalization devices used	10.9% (15/138)
Guide wire Successfully Crossed Lesion	99.1% (148/149)
Study guide wire successfully crossed lesion	99.6% (84/213)
Non-study guide wire successfully crossed lesion**	98.3% (64/65)
Other Recanalization Device	98.3% (59/60)
Access	34.8% (99/258)
Cross	82.2% (212/258)
Other reasons	1.9% (5/258)
Crossing Methods for Guide Wire*	
Antegrade Guide**	81.9% (169/174)
Antegrade crossing (or microchannel method)	78.9% (137/174)
Retrograde	8.6% (15/174)
Knuckle wire	1.9% (4/174)
Rotate wire	0.57% (1/174)
Retrograde Only	13.7% (45/474)
Retrograde crossing	12.7% (59/474)
Knuckle wire	1.1% (5/474)
Combined Antegrade and Retrograde	2.3% (11/474)

Then phrong thí nghiệm chụp mạch trong lúm, đánh kích mạch tham chiếu trong bình (≥ 50) tuân thủ thuật (BVD) (≥ 2ml) (≥5) mL men, đường kính vùng tổ thiểu trong bình (≥ 50) tuân thủ thuật (BVD) (≥ 2ml) (≥5) mL men, đường kính vùng tổ thiểu trong bình (≥ 50) tuân thủ thuật (BVD) (≥ 2ml) (≥5) mL men, đường kính vùng tổ thiểu trong bình (≥ 50) tuân thủ thuật (N-25) (≥ 99,9& % (≥5,83). Dùng THB 0 trước thử thuật được sử dụng ở 0,1% (1/134) thường của vùng THB 1 trước thử thuật được sử dụng ở 2,9% (4/138) thường của vùng.

Kết quả của dòng chảy guide (cuối)

Sáu đối tượng đã chịu và việc tại bạn dòng chảy thành công cho CTO đạt được ở 79,0% (109/138) đối tượng có ghỉ hơn dưới cho 97% CTO nhận (9 ở 72,8%, Các tiếp nhóng lẻ để