ST. JUDE MEDICAL

Daig Division
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Minnetonka, MN 55345
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June 15, 2000

Mr. Stewart Crumpler
Dockets Management Branch (HFA-305),
Food and Drug Administration,
Department of Health and Human Services,
5630 Fishers Lane, rm. 1061
Rockville, MD 20852.

Subject: Expedited Variance Request to the Regulation 21 CFR, Part 898, Performance Standard for Electrode Lead Wires and Patient Cables

Dear Mr. Crumpler:

Based on our telephone conversation from June 13, 2000, and subsequent investigation of the market place, the undersigned submits this variance request under Section 10.65 of the Federal Food, Drug, and Cosmetic Act or any other statutory provision for which authority has been delegated to the Commissioner of Food and Drugs under 21 CFR 5.10, requesting that the Commissioner of Food and Drugs grant a variance to St. Jude Medical, Daig Division for a 60 day extension to allow St. Jude Medical, Daig Division to continue marketing the Pacel™ Family of Temporary Pacing Catheters and the Electrophysiology Product Families (Response™ , Supreme™, and Livewire™) Catheters without compliance to the Regulation 21 CFR, Part 898, Performance Standard for Electrode Lead Wires and Patient Cables.

A. Action Requested:

St. Jude Medical, Daig Division is requesting that the Commissioner grant a 60 day extension to St Jude Medical, Daig Division to specifically exempt Daig from compliance to the Regulation 21 CFR, Part 898, Performance Standard for Electrode Lead Wires and Patient Cables for continuing to market the Pacel™ family of Temporary Pacing Catheters and Electrophysiology Product Families (Response™ , Supreme™, and Livewire™) Catheters.

Device Name: St Jude Medical, Daig Division Pacel Temporary Pacing Catheters
FDA Class: II, LDF, 21CFR870.3680
Labeling: Attached

OOP-1349

CP1

Device Name: St. Jude Medical, Daig Division Electrophysiology Catheters Product Families (Response , Supreme, and Livewire)
FDA Class: II, DQX & DRA, 21CFR870.1220 & .1280
Labeling: Attached

B. Summary Statement of Grounds (Reasons for Exemption/Alternatives):

1. We are writing to request that St. Jude Medical, Daig Division be granted the same extension provided by FDA to any other manufacturer of Electrophysiology (EP) Catheters and/or Temporary Pacing Catheters allowing for shipment of product with exposed pins, and to formally express our disappointment with the process used by the FDA to grant such an extension to any industry supplier without first notifying or seeking input from other industry participants.

2. We confirm for FDA that, as statutorily required, St. Jude Medical was ready on May 9, 2000 with complete redesigns of all our exposed pin products in both the EP Catheter and Temporary Pacing Catheter product categories, with sufficient inventory to meet historical demand for such products. To be ready on that date, our organization invested hundreds of thousands of dollars and committed engineering resources totaling approximately 25% of our available EP related R&D personnel during the first four months of this year.

3. Since May 9, we have experienced a marked increase in US demand for shrouded pin products, which we believe is attributable to two issues:

- An inability of some competitors to provide compliant product by the FDA imposed deadline (e.g. we know that Johnson and Johnson's Cordis Webster subsidiary has elected not to make the required modifications to its temporary pacing catheters and has elected to exit this business segment).
- A perception among some customers that the moratorium on sale of exposed pin products extends to a hospital's ability to use such products after May 9, 2000.

The inability of some manufacturers to supply compliant temporary pacing catheters has placed St. Jude Medical into a "out-of-stock" or backorder situation with some versions of our Pacel™ temporary pacing catheter product line. An out-of-stock situation in the United States could create a serious health care concern since many of these products are used on a emergency basis and or required for post cardiac surgical patients or post myocardial infarction patients. This out-of-stock situation could result in prolonged hospital stays, serious injuries, or even death. A backorder situation for St. Jude Medical is a significant issue because of our relatively large market share in this product segment. On a unit sales basis in the first quarter of 2000, US market shares for the principle competitors in the temporary pacing catheter market are as follows: CR Bard (34.6%) St. Jude Medical/Daig (26.6%), Baxter (25.3%), and other (13.5%). (The enclosed IMS data form 1Q '00 provides complete, independent third party confirmation of these numbers.)

In addition, the increased demand for shrouded pin EP catheter products precipitated by the two issues raised above has resulted in some backorders for certain St. Jude Medical EP Catheter and cable products. We are ramping up production capacity and expect to meet this new demand by the end of the month of July. However, to avoid current customer stock out situations, we would like to receive a temporary exemption from the requirements of the exposed pin regulation. We believe that a period of sixty days from the original May 9, 2000 implementation date will be sufficient, but we would formally like to request an extension period equivalent to that provided to any other manufacturer so as not to put us at a disadvantage to any industry competitor.

4. We were disappointed to learn that a sixty day extension was provided to at least one of our competitors, Johnson and Johnson's Cordis/Biosense-Webster division, without the Agency first having solicited input from the other major suppliers in the industry. We have been led to believe that the basis for FDA's approval of this exemption was an argument by Cordis that it holds greater than 50% of the revenue share of the EP catheter market, and that their inability to supply product would cause hardship in the Electrophysiology community. While it may be true that Cordis revenues do represent up to 50% of total EP Product revenues in the US, this is only true if one includes sales of EP related capital equipment which, in our view, is not relevant to the exposed pin issue. If one looks strictly at EP catheter and accessory products, the US revenue market shares of the principle competitors in the first quarter of 2000 are as follows: Boston Scientific EPT (34.3%), J&J Cordis (31.5%), St. Jude Medical Daig (22.3%), CR Bard (9.9%) and Other (1.9%). Cordis' relatively high revenue share is principally because of their product sales in advanced mapping catheters (i.e. Biosense catheter products) and steerable diagnostic catheter products (i.e. Webster products) which tend to give a weighting of product sales at the "high priced" end of the market. In one looks at unit catheter market share which we believe is the most relevant basis for comparison, the market is virtually evenly split in descending market share order among St. Jude Medical (27.5%), Boston Scientific EPT (25.8%), J&J Cordis (24.4%) and CR Bard (18.2%). (As with the temporary pacing catheter data cited earlier, the enclosed IMS data form 1Q '00 contains complete, independent third party confirmation of these numbers.) In our opinion, none of the products manufactured by Cordis provide such unique functionality that they cannot be substituted with products from other suppliers.

5. FDA's decision to grant a unilateral extension to Cordis because of their inability to effectively comply with published regulations is disappointing for many reasons. First, it exposes patients for an additional sixty day period to the risks of exposed pins which the FDA has deemed sufficiently dangerous as to require very expensive product changes by industry suppliers. Second, it was based on the erroneous assumption that Cordis' inability to supply product would cause industry wide stock outs. If St. Jude Medical and the other major industry suppliers had been informed that Cordis would not be able to meet its obligations under the new statute with 45 to 60 days notice, we believe that we could have increased our manufacturing capacity in advance of the May 9, 2000 effective date and not caused any disruption in the field. It is particularly troublesome that the decision to continue patient exposure to exposed pin

products was made without even seeking the input of other major suppliers as to whether or not Cordis' assertions were true given that there was an obvious financial incentive for Cordis to be less than fully forthcoming in providing information on the subject.

Third, the exemption provides a significant competitive advantage to Cordis at the expense of other industry suppliers by allowing them a unique flexibility to use non-compliant product to fill demand created by the implementation of the new regulation. While we would prefer that no supplier be provided such a unique advantage, it would seem that those suppliers who used their best efforts and effectively complied with the agency directive for their own customers should be given that advantage as opposed to those who failed to effectively comply. This is especially true given the fact that the Agency provided industry with ample time to implement the directive, and because the non-compliant supplier is by their own assertion an industry leader who should be providing an effective example to other industry participants.

6. We hope the Agency will take our comments in the spirit in which they are given, as an opportunity for FDA to improve its fairness and effectiveness in the future. In the meantime, we hope they will approve our request to an extension consistent with that available to other industry suppliers so as to remove the competitive disadvantage to which we are currently exposed.

A. Environmental Impact:

St Jude Medical, Daig Division claims for a categorical exclusion under Secs. 25.30, 25.31, 25.32, 25.33, or Sec. 25.34 of this chapter or an environmental assessment under Sec. 25.40 of this chapter.

B. Economic impact

It is St. Jude Medical, Daig Division's understanding that a competitor, Johnson & Johnson Cordis Webster Division, has been previously granted an extension to this regulation for their EP Catheters. Daig's product lines of the Supreme, Response, and Livewire Catheters are identical in type and purpose to the Cordis Webster EP Catheters. This exemption for Cordis Webster provides them with an unfair advantage in the marketplace and allows Cordis Webster the opportunity to ship noncompliant product to the government and public health care consumers.

In addition, the out-of stock situation in the Temporary Pacing Catheters will directly affect the financially stability of this industry and US healthcare. If US patients are denied access to these products it could result in higher US health care costs in the form of longer hospital stays due to less than optimal care.

C. Certification

The undersigned certifies, that, to the best knowledge and belief of the undersigned, this petition includes all information and views on which the petition relies, that it is well grounded in fact and is warranted by existing laws or regulations, that it is not submitted for any improper purpose, such as to harass or to cause unnecessary delay, and that it includes representative data and information known to the petitioner which are unfavorable to the petition.

(Signature) Dean Bruhn-Ding

(Name) Dean Bruhn-Ding, RAC
Director of Regulatory Affairs & Quality Assurance

(Mailing address) St. Jude Medical, Daig Division
14901 DeVeau Place
Minnetonka, Minnesota, 55345

(Telephone number) (612) 933-4700

Attachment

DAIG
a St. Jude Medical Company

SUPREME™

ELECTROPHYSIOLOGY CATHETER
Instructions for use

Patent Pending

ELEKTROPHYSIOLOGIE-KATHETER
Gebrauchsanweisung

Patent angemeldet

CATHETERS D'ELECTROPHYSIOLOGIE
Mode d'emploi

Brevet déposé

CATETERE PER ELETTROFISIOLOGIA
Istruzioni per l'uso

Brevetto da rilasciare

CATETER ELECTROFISIOLOGICO
Instrucciones de uso

Patente pendiente

電気生理用カテーテル
取扱説明書

特許出願中

SUPREME™

ELECTROPHYSIOLOGY CATHETER

See Product Catalog for Reorder Numbers and product description.

MISUSE OF THIS CATHETER AND ACCESSORIES MAY RESULT IN SERIOUS COMPLICATIONS.

SEE INDIVIDUAL STERILE PACKAGE LABEL FOR CONTENTS.

SINGLE-USE DISPOSABLE MEDICAL DEVICE. CONTENTS ARE STERILE IF PACKAGE IS UNOPENED AND UNDAMAGED. DO NOT RESTERILIZE.

CAUTION:

DO NOT alter this device.

Federal (U.S.A.) law restricts this device to use by or on the order of a physician.

This device should only be used by physicians thoroughly trained in the technique of angiography and electrophysiology and intracardiac recording and stimulation.

This device should only be used with equipment that complies with international safety standards.

Individual patient anatomy and physician technique may require procedural variations.

For specific details in the use of electrophysiology catheters and the techniques employed in an electrophysiology study, the physician should be referred to the medical literature and rely on training and practical experience.

STORE IN A COOL, DARK, DRY PLACE.

SUGGESTED AVAILABLE EQUIPMENT FOR THE ELECTROPHYSIOLOGY LABORATORY

1. Fluoroscope.
2. Programmable stimulator.
3. Multichannel Physiologic Recorder (50 mm per second to 200 mm per second paper speeds)
4. Resuscitation equipment.
5. Intracardiac Electrode Catheters.
6. Introducer Kits.

INDICATIONS FOR USE

Daig Electrophysiology Catheters can be used in the evaluation of a variety of cardiac arrhythmias.

CONTRAINDICATIONS

- Electrophysiology studies are contraindicated when acute factors make the findings unrepresentative of the patient's usual state (i.e. electrolyte abnormality, acute ischemia, and drug toxicity).
- When the patient's underlying cardiac disease makes it likely that induced arrhythmias will be extremely difficult to terminate and carry a high risk of death (i.e. acute myocardial infarction, unstable angina, hemodynamic instability).

RISKS RELATED TO CARDIAC CATHETERIZATION

The risks of use of electrophysiology catheters include those risks related to cardiac catheterization in general, such as thromboembolism, cardiac perforation, tamponade, and infection. The induction of atrial fibrillation, ventricular tachycardia (VT) requiring cardioversion, and VF can be risks associated with electrical stimulation.

CATHETER PLACEMENT PROCEDURE

Follow general laboratory procedure for general patient management.

- Patient informed consent.
- Antiarrhythmic drugs—patients with life threatening arrhythmias should be closely monitored when antiarrhythmic drugs are discontinued.
- Premedication—avoid if possible due to electrophysiologic effects on the study.

  NOTE: *Use local anesthesia (Lidocaine 0.5 percent or 1 percent without Epinephrine). Use smallest necessary dose to avoid systemic levels of Lidocaine with its attendant electrophysiologic affects.*
- Most electrophysiology catheters are placed via the femoral vein. Venous access by the Seldinger technique is often used.
- Place electrophysiology catheter.
- Record electrograms.

  NOTE: *Use anticoagulant as training and experience may dictate.*

SUPREME™

ELEKTROPHYSIOLOGIE-KATHETER

Bestellnummern und Produktbeschreibung sind im Katalog zu finden.

MISSBRAUCH DIESES KATHETERS KANN SCHWERWIEGENDE KOMPLIKATIONEN VERURSACHEN.

INHALTSVERZEICHNIS BEFINDET SICH AUF DEM AUFKLEBER DER STERILEN EINZELPACKUNG.

MEDIZINISCHER EINMALGEBRAUCHSARTIKEL. DER INHALT IST STERIL, SO LANGE DIE VERPACKUNG UNGEÖFFNET UND UNBESCHÄDIGT IST. NICHT RESTERILISIEREN.

VORSICHT:

Das Gerät DARF NICHT verändert werden.

Das Gerät darf nur von einem Arzt oder in seinem Auftrag benutzt werden.

Das Gerät darf nur von Ärzten (oder in deren Auftrag) benutzt werden, die eine gründliche Ausbildung in den Methoden der Angiographie, der Elektrophysiologie und intrakardialen Aufzeichnung und Stimulierung besitzen.

Dieses Gerät ist nur mit Einrichtungen zu verwenden die den internationalen Sicherheitsnormen entsprechen.

Individuelle Anatomie des Patienten und ärztliche Anwendungstechnik können Verfahrensvariationen notwendig machen.

Für spezifische Einzelheiten in der Anwendung von elektrophysiologischen Katheter, und für die in einer elektrophysiologischen Untersuchung angewandten Methoden, wird der Arzt auf die medizinische Fachliteratur verwiesen und hat sich auf Ausbildung und praktische Erfahrung zu verlassen.

KÜHL, DUNKEL UND TROCKEN AUFBEWAHREN.

EMPFEHLUNG FÜR BEREITSTEHENDE GERÄTE FÜR DAS ELEKTROPHYSIOLOGISCHE LABOR

1. Fluoroskopie-Leuchtschirm
2. Programmierbarer Stimulator
3. Mehrkanal-Physiologie-Aufzeichner (50 mm/Sekunde bis 200 mm/Sekunde Papiergeschwindigkeit)
4. Wiederbelebungsgerät
5. Intrakardiale Elektrodenkatheter
6. Einführungsgerät, Sätze

ANWENDUNGEN

Daig Elektrophysiologie-Katheter sind in der Untersuchung von verschiedenen kardialen Arhythmien verwendbar.

KONTRAINDIKATIONEN

- Elektrophysiologische Untersuchungen sind kontraindiziert, wenn die Ergebnisse durch akute Faktoren so beeinflußt werden, daß sie nicht repräsentativ für den Normalzustand des Patienten sind (d.h. elektrokardiale Abnormität, akute Ischämie, und Arzneimitteltoxizität).
- Wenn die bestehende kardialische Krankheit des Patienten es wahrscheinlich macht, daß ausgelöste Arhythmien äußerst schwer zu beenden sind und mit einer hohen Lebensgefahr verbunden sind (d.h. akute myokardiale Infarzierung, instabile Angina, hämodynamische Instabilität).

MIT KARDIALEN KATHETERISIERUNGEN VERBUNDENE RISIKEN

Zu den Anwendungsrisiken für elektrophysiologische Katheter gehören solche Risiken, die allgemein mit einer kardialen Katheterisierung verbunden sind, wie z.B. Thromboembolie, kardiale Perforation, Tamponade und Infektion. Die Auslösung von atrialem Flimmern, einer Kardioversion notwendig machenden ventrikulären Tachykardie (VT), und Kammerflimmern können mit elektrischer Stimulierung verbunden sein.

KATHETEREINSATZ-VERFAHREN

Normale Labormethoden für allgemeine Patientenbetreuung beachten.

- Pateintenzustimmung einholen
- Antiarhythmische Medikamente – Patienten mit lebensbedrohenden Arhythmien sind bei Entzug von Antiarhythmika sorgfältig zu überwachen.
- Prämedikation – wenn möglich vermeiden, weil eine elektrophysiologische Beeinflussung der Untersuchung möglich ist.

  ANMERKUNG: *Lokalanästhesie verwenden (Lidocain 0.5% oder 1.0% ohne Ephinephrin). Zur Vermeidung von systemischen Mengen von Lidocain, und den damit verbundenen elektrophysiologischen Affekten, niedrigste notwendige Dosis anwenden.*
- Die meisten elektrophysiologischen Katheter werden durch die Vena femoralis eingeführt. Der Venenzugang wird häufig nach der Seldinger-Methode ausgeführt.
- Elektrophysiologischen Katheter anbringen.
- Elektrogramm aufzeichnen.

  ANMERKUNG: *Antikoagulans verwenden, wie es durch Ausbildung und Erfahrung angezeigt sein kann.*

SUPREME™

CATHETERS D'ELECTROPHYSIOLOGIE

Se reporter au catalogue pour obtenir les nos des références nécessaires et la description du produit.

LA MAUVAISE UTILISATION DE CE CATHETER ET DES ACCESSOIRES PEUT PROVOQUER DE GRAVES COMPLICATIONS.

SE REPORTER A L'ETIQUETTE DES EMBALLAGES STERILES INDIVIDUELS POUR INFORMATION SUR LEUR CONTENU.

MATERIEL MEDICAL A USAGE UNIQUE. LE CONTENU EST STERILE SI L'EMBALLAGE N'EST PAS OUVERT ET ENDOMMAGE. NE PAS RESTERILISER.

ATTENTION:
NE PAS modifier cet équipement.

Cet équipement ne peut être utilisé que par des médecins, ou bien sous leur supervision.

Ce matériel ne peut être utilisé que par un médecin formé aux techniques d'angiographie, électrophysiologie, enregistrement et stimulation intra-cardiaque.

Ce matériel ne doit être utilisé qu'avec un équipement répondant aux normes de sécurité internationales.

L'anatomie de l'individu et la technique employée par le médecin peuvent nécessiter des modifications dans la procédure d'emploi.

Pour des détails plus précis sur l'utilisation des cathéters d'électrophysiologie ainsi que sur les techniques employées dans les études électrophysiologiques, le médecin pourra se référer aux manuels médicaux ou s'appuyer sur l'expérience pratique.

A CONSERVER DANS UN ENDROIT FRAIS ET SEC, A L'ABRI DE LA LUMIERE.

EQUIPEMENT RECOMMANDE DANS UN LABORATOIRE D'ELECTROPHYSIOLOGIE

1. Fluoroscope
2. Stimulateur programmable
3. Enregistreur physiologique multicanal (vitesse de papier de 50mm/s à 200mm/s)
4. Equipement de réanimation
5. Cathéters à électrodes intra-cardiaques
6. Kit d'introducteur

INDICATIONS
Les cathéters d'électrophysiologie DAIG peuvent être utilisés pour l'évaluation d'une grande variété d'arrythmies cardiaques.

CONTRE-INDICATIONS

- Les études électrophysiologiques sont contre-indiquées quand des facteurs aigüs rendent les résultats non représentatifs de l'état du patient (par exemple: anormalité électrolyte, ischémie aigüe, intoxication médicamenteuse.
- Quand la maladie cardiaque présumée du patient fait courir un grand risque de décès en cas d'arrythmie provoquée (par exemple: Infarctus du myocarde aigüe, angine instable, instabilité hémodynamique).

RISQUES LIES AU CATHETERISME CARDIAQUE
Les risques d'utilisation des cathéters d'électrophysiologie comprennent les risques liés au cathétérisme cardiaque in général, tel le thromboembolisme, la perforation cardiaque, la tamponade et les infections. Le déclenchement d'une fibrillation auriculaire, la tachycardie ventriculaire requérant cardio version et la fibrillation ventriculaire sont des risques qui peuvent résulter de la stimulation électrique.

PROCEDURE DE POSITIONNEMENT DU CATHETER
Suivre les procédures générales des laboratoires pour la prise en charge générale des patients.

- Consentement du patient après information
- Injection de produits anti-arrythmique. Les patients dont la vie est menacée par l'arrythmie devront être suivis de très près lorsque l'injection de produits arrythmique est arrêtée.
- Prémédication à éviter si possible à cause des effets électrophysiologiques sur l'étude.
  NOTE: *Utiliser l'anesthésie locale (Lidocaïne 0.5% ou 1% sans Epinephrine). Utiliser les doses minimales requises pour éviter les niveaux systémiques de Lidocaïne et ses effets électrophysiologiques associés.*
- La plupart des cathéters d'électrophysiologie sont placés par la veine fémorale. L'accès veineux selon la technique Seldinger est couramment utilisée.
- Placer le cathéter
- Enregistrer les électrographes
  NOTE: *Utiliser les anti-coagulants comme le montrent la formation et l'expérience.*

SUPREME™

CATETERE PER ELETTROFISIOLOGIA

Vedere il catalogo prodotti per i numeri di codice e la descrizione del prodotto.

L'ABUSO DI QUESTO CATETERE E DEGLI ACCESSORI PUÒ PROVOCARE SERIE COMPLICAZIONI.

PER IL CONTENUTO DI CIASCUN PACCO STERILE, VEDERE L'ETICHETTA.

DISPOSITIVO MEDICO MONOUSO. IL CONTENUTO È STERILE SE IL PACCO È CHIUSO E NON DANNEGGIATO. NON RISTERILIZZARE.

ATTENZIONE:
Non si modifichi questo dispositivo.

L'uso di questo prodotto è consentito solamente ai medici oppure secondo le loro istruzioni.

Questo catetere deve essere utilizzato esclusivamente da personale medico esperto in tecniche angiografiche, elettrofisiologiche ed invasive di registrazione e di stimolazione intracoronarica.

Questo dispositivo deve essere usato solo con apparecchiatura conforme alle norme internazionali di sicurezza.

L'anatomia individuale del paziente ed i metodi del medico possono esigere variazioni procedurali.

Per ulteriori ragguagli circa l'uso del catetere per elettrofisiologia e la tecnica impiegata negli studi elettrofisiologici, riferirsi alla letteratura specifica sull'argomento e all'esperienza pratica.

CONSERVARE IN LUOGO FRESCO E ASCIUTTO E AL RIPARO DELLA LUCE.

MATERIALE NECESSARIO PER UN LABORATORIO DI ELETTROFISIOLOGIA

1. Fluoroscopio
2. Stimolatore programmabile
3. Registratore multicanale (velocità di scorrimento della carta: 50 mm/sec – 200 mm/sec)
4. Equipaggiamento per rianimazione
5. Elettro-cateteri intracoronarici
6. Kit di introduttori

INDICAZIONI D'USO
I cateteri per elettrofisiologia DAIG possono essere usati nella valutazione di aritmie di vari tipi.

CONTROINDICAZIONI

- Gli studi di elettrofisiologia sono controindicati in caso di fenomeni acuti che alterano il normale stato del paziente (esempio, squilibri elettrolitici, ischemia acuta, intossicazione da farmaci).
- Nel caso in cui le affezioni cardiache del paziente abbiano indotto aritmia, risulterà estremamente difficile interromperla e rende più elevato il rischio di morte.

RISCHI DELLA CATETERIZZAZIONE CARDIACA
I rischi dell'uso di catetere per elettrofisiologia sono quelli specifici della cateterizzazione cardiaca; in generale: tromboembolia, perforazione cardiaca o infezioni ecc. L'induzione di fibrillazione atriale, la tachicardia ventricolare (VT) e la VF possono costituire i rischi associati alla stimolazione elettrica.

PROCEDURA DI POSIZIONAMENTO
Seguire la normale procedura:

- consenso del paziente
- i pazienti a terapia antiaritmica devono essere monitorizzati quando l'assunzione di farmaci è discontinua
- evitare trattamenti pre-procedura ove possibile, affinchè non interferiscano con lo studio.
  NOTA: *usare anestesia locale (Lidocaina 0,5% o 1% senza Epinefrina), usare la più piccola dose necessaria per evitare interferenze elettrofisiologiche.*
- La maggior parte dei cateteri per elettrofisiologia vengono posizionati accedendo dalla vena femorale. È frequente l'utilizzo della tecnica di Seldinger per l'accesso venoso.
- Posizionare il catetere per elettrofisiologia
- Registrare l'elettrogramma
  NOTA: *usare anticoagulante come suggerisce l'esperienza.*

CATETER ELECTROFISIOLOGICO

Ver el catálogo de productos para obtener los números de referencia y la descripción del producto.

EL USO INCORRECTO DE ESTE CATETER Y ACCESORIOS PUEDEN RESULTAR EN SERIAS COMPLICACIONES.

EN LA ETIQUETA DE CADA PAQUETE INDIVIDUAL ESTERIL SE MENCIONA EL CONTENIDO.

DISPOSITIVO MEDICO DESECHABLE DE UN SOLO USO. EL CONTENIDO ES ESTERIL SI EL PAQUETE ESTA CERRADO Y SIN DAÑAR. NO VOLVER A ESTERILIZAR.

PRECAUCION:

No alterar este dispositivo.

La utilización del producto está permitida únicamente a un médico o según sus indicaciones.

Este dispositivo debe ser utilizado únicamente por médicos completamente entrenados en la técnica de angiografía y electrofisiología y registro cardiaco y estimulación.

Este dispositivo sólo deberá utilizarse con aquellos equipos que cumplan los estándares internacionales de seguridad.

La anatomía individual de cada paciente y la técnica del médico pueden requerir variaciones del procedimiento.

Para detalles específicos en el uso de catéteres electrofisiológicos y de las técnicas empleadas en un estudio electrofisiológico, el médico deberá referirse a la literatura médica y contar con entrenamiento y experiencia práctica.

ALMACENAR EN UN LUGAR FRESCO, OSCURO Y SECO.

EQUIPO SUGERIDO PARA EL LABORATORIO DE ELECTROFISIOLOGIA

1. Fluoroscopio.
2. Estimulador Programable.
3. Registro Fisiológico Multicanal (velocidad de papel de 50 mm por segundo a 200 mm por segundo)
4. Equipo de resucitación.
5. Catéteres de Electrodos Intracardiacos
6. Equipos de Introducción.

INDICACIONES PARA SU USO

Los Catéteres Electrofisiológicos Daig pueden ser utilizados en la evaluación de una variedad de arritmias cardiacas.

CONTRAINDICACIONES

- Estudios electrofisiológicos están contraindicados cuando factores agudos hacen los resultados no representativos del estado usual del paciente (por ej. anormalidad electrolítica, isquemia aguda e intoxicación medicamentosa).
- Cuando las enfermedades cardiacas subyacentes del paciente hacen probable que las arritmias inducidas serán extremadamente difíciles de terminar y tienen un alto riesgo de muerte (por ej. infarto agudo al miocardio, angina inestable, inestabilidad hemodinámica).

RIESGOS RELACIONADOS CON LA CATETERIZACION CARDIACA

Los riesgos por el uso de catéteres electrofisiológico incluyen aquellos riesgos relacionados con la cateterización cardiaca en general, tales como tromboembolismo, perforación cardiaca, tamponade e infección. La inducción de fibrilación atrial, taquicardia ventricular (VT) requiriendo cardioversión, y FV pueden ser riesgos asociados con la estimulación eléctrica.

PROCEDIMIENTO DE COLOCACION DEL CATETER

Siga los procedimientos generales de laboratorio para un manejo general del paciente.

- Consentimiento del paciente
- Drogas antiarrítmicas – pacientes con arritmias que amenazan la vida deben estar monitoreados muy de cerca cuando se suspenden las drogas antiarrítmicas.
- Premedicación – evítelo en lo posible debido a los efectos electrofisiológicos en el estudio.

  NOTA: *Utilice anestesia local (0.5 porciento de Lidocaína o 1 porciento sin Epinefrina). Utilice la dósis necesaria más pequeña para evitar niveles sistémicos de Lidocaína con sus afecciones electrofisiológicas intrínsecas.*
- La mayoría de los catéteres electrofisiológicos son colocados vía la vena femoral. El acceso venoso por la técnica de Seldinger es frecuentemente utilizada.
- Colóque el catéter electrofisiológico.
- Regístre los electrogramas.

  NOTA: *Utilice anticoagulante como dicte el entrenamiento y la experiencia.*

電気生理用カテーテル

製品仕様及びリオーダNo. は製品カタログをご覧下さい。

本カテーテルの誤った使用は重大な合併症を引き起こす可能性があります。

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この製品は、血管造影、電気生理及び心腔内刺激、記録の技術訓練を受けた医師以外は使用しないで下さい。

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各々の患者の血管走行や医師の技術によって、様々な手技が必要になる場合があります。

電気生理学的検査における、本カテーテルの使用や技術の詳細については、医学書を参照し、訓練や実際の経験に基づいて行って下さい。

乾燥した冷暗所に保管して下さい。

電気生理学的検査における準備すべき装置

1. 透視検査装置
2. プログラマブル刺激装置
3. ポリグラフ(50mm/秒から200mm/秒まで記録紙速度が変更可能なもの)
4. 蘇生装置
5. 心腔内電極カテーテル
6. イントロデューサセット

適応

デイグ社の電気生理用カテーテルは様々な不整脈の評価・診断に使用することができます。

禁忌

- 急性因子によって患者の状態が通常と異なり、電解質異常、急性心筋虚血、薬物中毒等の所見を有する場合、電気生理学検査は禁忌となります。
- 心疾病を有する患者に不整脈が誘発されると、それを止めるのは非常に困難であり、急性心筋梗塞、不安定狭心症、血行動態不全などによる死亡の危険を大きくします。

心臓カテーテル検査法に関するリスク

一般的に、心臓カテータリゼーションも含めた電気生理用カテーテルの使用に伴うリスクは、血栓塞栓症、心臓穿孔、タンポナーデ、感染症などです。電気的刺激に起因して、心房細動、電気的除細動を必要とする心室頻脈(VT)や心室粗細動を誘発する場合があります。

カテーテル位置決定手順

以下は、一般的な患者に対する一般的な検査手順です。

- 患者へのインフォームドコンセント
- 抗不整脈剤－検査のために、抗不整脈剤の投与を中断する場合は、常時、十分注意してモニタして下さい。
- 準備投薬－検査への電気生理学的影響があるため可能な限り避けて下さい。
  注：局部麻酔を行って下さい。(エピネフリンなしのリドカイン 0.5%-1%)リドカインが全身に作用することに伴う電気生理学的影響を避けるため、必要最小量を投与して下さい。
- ほとんどの電気生理用カテーテルは大腿静脈から挿入します。静脈アプローチはセルジンガー法がしばしば用いられます。
- 電気生理用カテーテルを位置させます。
- 心内電位図を記録します。
  注：抗凝血薬の使用をお薦め致します。

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RESPONSE™

ELECTROPHYSIOLOGY CATHETER
Instructions for use

Patent Pending

ELEKTROPHYSIOLOGIE-KATHETER
Gebrauchsanweisung

Patent angemeldet

CATHETERS D'ELECTROPHYSIOLOGIE
Mode d'emploi

Brevet déposé

CATETERE PER ELETTROFISIOLOGIA
Istruzioni per l'uso

Brevetto da rilasciare

CATETER ELECTROFISIOLOGICO
Instrucciones de uso

Patente pendiente

電気生理用カテーテル
取扱説明

特許出願中

RESPONSE™
ELECTROPHYSIOLOGY CATHETER

See Product Catalog for Reorder Numbers and product description.

MISUSE OF THIS CATHETER AND ACCESSORIES MAY RESULT IN SERIOUS COMPLICATIONS.

SEE INDIVIDUAL STERILE PACKAGE LABEL FOR CONTENTS.

SINGLE-USE DISPOSABLE MEDICAL DEVICE. CONTENTS ARE STERILE IF PACKAGE IS UNOPENED AND UNDAMAGED. DO NOT RESTERILIZE.

CAUTION:
DO NOT alter this device.

Federal (U.S.A.) law restricts this device to use by or on the order of a physician.

This device should only be used by physicians thoroughly trained in the technique of angiography and electrophysiology and intracardiac recording and stimulation.

This device should only be used with equipment that complies with international safety standards.

Individual patient anatomy and physician technique may require procedural variations.

For specific details in the use of electrophysiology catheters and the techniques employed in an electrophysiology study, the physician should be referred to the medical literature and rely on training and practical experience.

STORE IN A COOL, DARK, DRY PLACE.

SUGGESTED AVAILABLE EQUIPMENT FOR THE ELECTROPHYSIOLOGY LABORATORY

1. Fluoroscope.
2. Programmable stimulator.
3. Multichannel Physiologic Recorder (50 mm per second to 200 mm per second paper speeds)
4. Resuscitation equipment.
5. Intracardiac Electrode Catheters.
6. Introducer Kits.

INDICATIONS FOR USE
Daig Electrophysiology Catheters can be used in the evaluation of a variety of cardiac arrhythmias.

CONTRAINDICATIONS

- Electrophysiology studies are contraindicated when acute factors make the findings unrepresentative of the patient's usual state (i.e. electrolyte abnormality, acute ischemia, and drug toxicity).
- When the patient's underlying cardiac disease makes it likely that induced arrhythmias will be extremely difficult to terminate and carry a high risk of death (i.e. acute myocardial infarction, unstable angina, hemodynamic instability).

RISKS RELATED TO CARDIAC CATHETERIZATION
The risks of use of electrophysiology catheters include those risks related to cardiac catheterization in general, such as thromboembolism, cardiac perforation, tamponade, and infection. The induction of atrial fibrillation, ventricular tachycardia (VT) requiring cardioversion, and VF can be risks associated with electrical stimulation.

CATHETER PLACEMENT PROCEDURE
Follow general laboratory procedure for general patient management.

- Patient informed consent.
- Antiarrhythmic drugs—patients with life threatening arrhythmias should be closely monitored when antiarrhythmic drugs are discontinued.
- Premedication—avoid if possible due to electrophysiologic effects on the study.

  NOTE: *Use local anesthesia (Lidocaine 0.5 percent or 1 percent without Epinephrine). Use smallest necessary dose to avoid systemic levels of Lidocaine with its attendant electrophysiologic affects.*
- Most electrophysiology catheters are placed via the femoral vein. Venous access by the Seldinger technique is often used.
- Place electrophysiology catheter.
- Record electrograms.

  NOTE: *Use anticoagulant as training and experience may dictate.*

RESPONSE™
ELEKTROPHYSIOLOGIE-KATHETER

Bestellnummern und Produktbeschreibung sind im Katalog zu finden.

MISSBRAUCH DIESES KATHETERS KANN SCHWERWIEGENDE KOMPLIKATIONEN VERURSACHEN.

INHALTSVERZEICHNIS BEFINDET SICH AUF DEM AUFKLEBER DER STERILEN EINZELPACKUNG.

MEDIZINISCHER EINMALGEBRAUCHSARTIKEL. DER INHALT IST STERIL, SO LANGE DIE VERPACKUNG UNGEÖFFNET UND UNBESCHÄDIGT IST. NICHT RESTERILISIEREN.

VORSICHT:
Das Gerät DARF NICHT verändert werden.

Das Gerät darf nur von einem Arzt oder in seinem Auftrag benutzt werden.

Das Gerät darf nur von Ärzten (oder in deren Auftrag) benutzt werden, die eine gründliche Ausbildung in den Methoden der Angiographie, der Elektrophysiologie und intrakardialen Aufzeichnung und Stimulierung besitzen.

Dieses Gerät ist nur mit Einrichtungen zu verwenden die den internationalen Sicherheitsnormen entsprechen.

Individuelle Anatomie des Patienten und ärztliche Anwendungstechnik können Verfahrensvariationen notwendig machen.

Für spezifische Einzelheiten in der Anwendung von elektrophysiologischen Katheter, und für die in einer elektrophysiologischen Untersuchung angewandten Methoden, wird der Arzt auf die medizinische Fachliteratur verwiesen und hat sich auf Ausbildung und praktische Erfahrung zu verlassen.

KÜHL, DUNKEL UND TROCKEN AUFBEWAHREN.

EMPFEHLUNG FÜR BEREITSTEHENDE GERÄTE FÜR DAS ELEKTROPHYSIOLOGISCHE LABOR

1. Fluoroskopie-Leuchtschirm
2. Programmierbarer Stimulator
3. Mehrkanal-Physiologie-Aufzeichner (50 mm/Sekunde bis 200 mm/Sekunde Papiergeschwindigkeit)
4. Wiederbelebungsgerät
5. Intrakardiale Elektrodenkatheter
6. Einführungsgerät, Sätze

ANWENDUNGEN
Daig Elektrophysiologie-Katheter sind in der Untersuchung von verschiedenen kardialen Arhythmien verwendbar.

KONTRAINDIKATIONEN

- Elektrophysiologische Untersuchungen sind kontraindiziert, wenn die Ergebnisse durch akute Faktoren so beeinflußt werden, daß sie nicht repräsentativ für den Normalzustand des Patienten sind (d.h. elektrokardiale Abnormität, akute Ischämie, und Arzneimitteltoxizität).
- Wenn die bestehende kardialische Krankheit des Patienten es wahrscheinlich macht, daß ausgelöste Arhythmien äußerst schwer zu beenden sind und mit einer hohen Lebensgefahr verbunden sind (d.h. akute myokardiale Infarzierung, instabile Angina, hämodynamische Instabilität).

MIT KARDIALEN KATHETERISIERUNGEN VERBUNDENE RISIKEN
Zu den Anwendungsrisiken für elektrophysiologische Katheter gehören solche Risiken, die allgemein mit einer kardialen Katheterisierung verbunden sind, wie z.B. Thromboembolie, kardiale Perforation, Tamponade und Infektion. Die Auslösung von atrialem Flimmern, einer Kardioversion notwendig machenden ventrikulären Tachykardie (VT), und Kammerflimmern können mit elektrischer Stimulierung verbunden sein.

KATHETEREINSATZ-VERFAHREN
Normale Labormethoden für allgemeine Patientenbetreuung beachten.

- Pateintenzustimmung einholen
- Antiarhythmische Medikamente – Patienten mit lebensbedrohenden Arhythmien sind bei Entzug von Antiarhythmika sorgfältig zu überwachen.
- Prämedikation – wenn möglich vermeiden, weil eine elektrophysiologische Beeinflussung der Untersuchung möglich ist.

  ANMERKUNG: *Lokalanästhesie verwenden (Lidocain 0.5% oder 1.0% ohne Ephinephrin). Zur Vermeidung von systemischen Mengen von Lidocain, und den damit verbundenen elektrophysiologischen Affekten, niedrigste notwendige Dosis anwenden.*
- Die meisten elektrophysiologischen Katheter werden durch die Vena femoralis eingeführt. Der Venenzugang wird häufig nach der Seldinger-Methode ausgeführt.
- Elektrophysiologischen Katheter anbringen.
- Elektrogramm aufzeichnen.

  ANMERKUNG: *Antikoagulans verwenden, wie es durch Ausbildung und Erfahrung angezeigt sein kann.*

RESPONSE™
CATHETERS D'ELECTROPHYSIOLOGIE

Se reporter au catalogue pour obtenir les nos des références nécessaires et la description du produit.

LA MAUVAISE UTILISATION DE CE CATHETER ET DES ACCESSOIRES PEUT PROVOQUER DE GRAVES COMPLICATIONS.

SE REPORTER A L'ETIQUETTE DES EMBALLAGES STERILES INDIVIDUELS POUR INFORMATION SUR LEUR CONTENU.

MATERIEL MEDICAL A USAGE UNIQUE. LE CONTENU EST STERILE SI L'EMBALLAGE N'EST PAS OUVERT ET ENDOMMAGE. NE PAS RESTERILISER.

ATTENTION:
NE PAS modifier cet équipement.

Cet équipement ne peut être utilisé que par des médecins, ou bien sous leur supervision.

Ce matériel ne peut être utilisé que par un médecin formé aux techniques d'angiographie, électrophysiologie, enregistrement et stimulation intra-cardiaque.

Ce matériel ne doit être utilisé qu'avec un équipement répondant aux normes de sécurité internationales.

L'anatomie de l'individu et la technique employée par le médecin peuvent nécessiter des modifications dans la procédure d'emploi.

Pour des détails plus précis sur l'utilisation des cathéters d'électrophysiologie ainsi que sur les techniques employées dans les études électrophysiologiques, le médecin pourra se référer aux manuels médicaux ou s'appuyer sur l'expérience pratique.

A CONSERVER DANS UN ENDROIT FRAIS ET SEC, A L'ABRI DE LA LUMIERE.

EQUIPEMENT RECOMMANDE DANS UN LABORATOIRE D'ELECTROPHYSIOLOGIE

1. Fluoroscope
2. Stimulateur programmable
3. Enregistreur physiologique multicanal (vitesse de papier de 50mm/s à 200mm/s)
4. Equipement de réanimation
5. Cathéters à électrodes intra-cardiaques
6. Kit d'introducteur

INDICATIONS
Les cathéters d'électrophysiologie DAIG peuvent être utilisés pour l'évaluation d'une grande variété d'arrythmies cardiaques.

CONTRE-INDICATIONS

- Les études électrophysiologiques sont contre-indiquées quand des facteurs aigûs rendent les résultats non représentatifs de l'état du patient (par exemple: anormalité électrolyte, ischémie aigüe, intoxication médicamenteuse.
- Quand la maladie cardiaque présumée du patient fait courir un grand risque de décès en cas d'arrythmie provoquée (par exemple: Infarctus du myocarde aigüe, angine instable, instabilité hémodynamique).

RISQUES LIES AU CATHETERISME CARDIAQUE
Les risques d'utilisation des cathéters d'électrophysiologie comprennent les risques liés au cathétérisme cardiaque in général, tel le thromboembolisme, la perforation cardiaque, la tamponade et les infections. Le déclenchement d'une fibrillation auriculaire, la tachycardie ventriculaire requérant cardio version et la fibrillation ventriculaire sont des risques qui peuvent résulter de la stimulation électrique.

PROCEDURE DE POSITIONNEMENT DU CATHETER
Suivre les procédures générales des laboratoires pour la prise en charge générale des patients.

- Consentement du patient après information
- Injection de produits anti-arrythmique. Les patients dont la vie est menacée par l'arrythmie devront être suivis de très près lorsque l'injection de produits arrythmique est arrêtée.
- Prémédication à éviter si possible à cause des effets électrophysiologiques sur l'étude.
  NOTE: *Utiliser l'anesthésie locale (Lidocaïne 0.5% ou 1% sans Epinephrine). Utiliser les doses minimales requises pour éviter les niveaux systémiques de Lidocaïne et ses effets électrophysiologiques associés.*
- La plupart des cathéters d'électrophysiologie sont placés par la veine fémorale. L'accès veineux selon la technique Seldinger est couramment utilisée.
- Placer le cathéter
- Enregistrer les électrographes
  NOTE: *Utiliser les anti-coagulants comme le montrent la formation et l'expérience.*

RESPONSE™
CATETERE PER ELETTROFISIOLOGIA

Vedere il catalogo prodotti per i numeri di codice e la descrizione del prodotto.

L'ABUSO DI QUESTO CATETERE E DEGLI ACCESSORI PUÒ PROVOCARE SERIE COMPLICAZIONI.

PER IL CONTENUTO DI CIASCUN PACCO STERILE, VEDERE L'ETICHETTA.

DISPOSITIVO MEDICO MONOUSO. IL CONTENUTO È STERILE SE IL PACCO È CHIUSO E NON DANNEGGIATO. NON RISTERILIZZARE.

ATTENZIONE:
Non si modifichi questo dispositivo.

L'uso di questo prodotto è consentito solamente ai medici oppure secondo le loro istruzioni.

Questo catetere deve essere utilizzato esclusivamente da personale medico esperto in tecniche angiografiche, elettrofisiologiche ed invasive di registrazione e di stimolazione intracoronarica.

Questo dispositivo deve essere usato solo con apparecchiatura conforme alle norme internazionali di sicurezza.

L'anatomia individuale del paziente ed i metodi del medico possono esigere variazioni procedurali.

Per ulteriori ragguagli circa l'uso del catetere per elettrofisiologia e la tecnica impiegata negli studi elettrofisiologici, riferirsi alla letteratura specifica sull'argomento e all'esperienza pratica.

CONSERVARE IN LUOGO FRESCO E ASCIUTTO E AL RIPARO DELLA LUCE.

MATERIALE NECESSARIO PER UN LABORATORIO DI ELETTROFISIOLOGIA

1. Fluoroscopio
2. Stimolatore programmabile
3. Registratore multicanale (velocità di scorrimento della carta: 50 mm/sec – 200 mm/sec)
4. Equipaggiamento per rianimazione
5. Elettro-cateteri intracoronarici
6. Kit di introduttori

INDICAZIONI D'USO
I cateteri per elettrofisiologia DAIG possono essere usati nella valutazione di aritmie di vari tipi.

CONTROINDICAZIONI

- Gli studi di elettrofisiologia sono controindicati in caso di fenomeni acuti che alterano il normale stato del paziente (esempio, squilibri elettrolitici, ischemia acuta, intossicazione da farmaci).
- Nel caso in cui le affezioni cardiache del paziente abbiano indotto aritmia, risulterà estremamente difficile interromperla e rende più elevato il rischio di morte.

RISCHI DELLA CATETERIZZAZIONE CARDIACA
I rischi dell'uso di catetere per elettrofisiologia sono quelli specifici della cateterizzazione cardiaca; in generale: tromboembolia, perforazione cardiaca o infezioni ecc. L'induzione di fibrillazione atriale, la tachicardia ventricolare (VT) e la VF possono costituire i rischi associati alla stimolazione elettrica.

PROCEDURA DI POSIZIONAMENTO
Seguire la normale procedura:

- consenso del paziente
- i pazienti a terapia antiaritmica devono essere monitorizzati quando l'assunzione di farmaci è discontinua
- evitare trattamenti pre-procedura ove possibile, affinchè non interferiscano con lo studio.
  NOTA: *usare anestesia locale (Lidocaina 0,5% o 1% senza Epinefrina), usare la più piccola dose necessaria per evitare interferenze elettrofisiologiche.*
- La maggior parte dei cateteri per elettrofisiologia vengono posizionati accedendo dalla vena femorale. È frequente l'utilizzo della tecnica di Seldinger per l'accesso venoso.
- Posizionare il catetere per elettrofisiologia
- Registrare l'elettrogramma
  NOTA: *usare anticoagulante come suggerisce l'esperienza.*

RESPONSE™
CATETER ELECTROFISIOLOGICO

Ver el catálogo de productos para obtener los números de referencia y la descripción del producto.

EL USO INCORRECTO DE ESTE CATETER Y ACCESORIOS PUEDEN RESULTAR EN SERIAS COMPLICACIONES.

EN LA ETIQUETA DE CADA PAQUETE INDIVIDUAL ESTERIL SE MENCIONA EL CONTENIDO.

DISPOSITIVO MEDICO DESECHABLE DE UN SOLO USO. EL CONTENIDO ES ESTERIL SI EL PAQUETE ESTA CERRADO Y SIN DAÑAR. NO VOLVER A ESTERILIZAR.

PRECAUCION:
No alterar este dispositivo.

La utilización del producto está permitida únicamente a un médico o según sus Indicaciones.

Este dispositivo debe ser utilizado únicamente por médicos completamente entrenados en la técnica de angiografía y electrofisiología y registro cardiaco y estimulación.

Este dispositivo sólo deberá utilizarse con aquellos equipos que cumplan los estándares internacionales de seguridad.

La anatomía individual de cada paciente y la técnica del médico pueden requerir variaciones del procedimiento.

Para detalles específicos en el uso de catéteres electrofisiológicos y de las técnicas empleadas en un estudio electrofisiológico, el médico deberá referirse a la literatura médica y contar con entrenamiento y experiencia práctica.

ALMACENAR EN UN LUGAR FRESCO, OSCURO Y SECO.

EQUIPO SUGERIDO PARA EL LABORATORIO DE ELECTROFISIOLOGIA

1. Fluoroscopio.
2. Estimulador Programable.
3. Registro Fisiológico Multicanal (velocidad de papel de 50 mm por segundo a 200 mm por segundo)
4. Equipo de resucitación.
5. Catéteres de Electrodos Intracardiacos
6. Equipos de Introducción.

INDICACIONES PARA SU USO
Los Catéteres Electrofisiológicos Daig pueden ser utilizados en la evaluación de una variedad de arritmias cardiacas.

CONTRAINDICACIONES

- Estudios electrofisiológicos están contraindicados cuando factores agudos hacen los resultados no representativos del estado usual del paciente (por ej. anormalidad electrolítica, isquemia aguda e intoxicación medicamentosa).
- Cuando las enfermedades cardiacas subyacentes del paciente hacen probable que las arritmias inducidas serán extremadamente difíciles de terminar y tienen un alto riesgo de muerte (por ej. infarto agudo al miocardio, angina inestable, inestabilidad hemodinámica).

RIESGOS RELACIONADOS CON LA CATETERIZACION CARDIACA
Los riesgos por el uso de catéteres electrofisiológico incluyen aquellos riesgos relacionados con la cateterización cardiaca en general, tales como tromboembolismo, perforación cardiaca, tamponade e infección. La inducción de fibrilación atrial, taquicardia ventricular (VT) requiriendo cardioversión, y FV pueden ser riesgos asociados con la estimulación eléctrica.

PROCEDIMIENTO DE COLOCACION DEL CATETER
Siga los procedimientos generales de laboratorio para un manejo general del paciente.

- Consentimiento del paciente
- Drogas antiarrítmicas – pacientes con arritmias que amenazan la vida deben estar monitoreados muy de cerca cuando se suspenden las drogas antiarrítmicas.
- Premedicación – evítelo en lo posible debido a los efectos electrofisiológicos en el estudio.
  NOTA: *Utilice anestesia local (0.5 porciento de Lidocaína o 1 porciento sin Epinefrina). Utilice la dósis necesaria más pequeña para evitar niveles sistémicos de Lidocaína con sus afecciones electrofisiológicas intrínsecas.*
- La mayoría de los catéteres electrofisiológicos son colocados vía la vena femoral. El acceso venoso por la técnica de Seldinger es frecuentemente utilizada.
- Colóque el catéter electrofisiológico.
- Regístre los electrogramas.
  NOTA: *Utilice anticoagulante como dicte el entrenamiento y la experiencia.*

RESPONSE™
電気生理用カテーテル

製品仕様及びリオーダNo. は製品カタログをご覧下さい。
本カテーテルの誤った使用は重大な合併症を引き起こす可能性があります。
内容品についてはパッケージに付いている滅菌ラベルをご覧下さい。
ディスポーザブル製品のため使用は一回限りです。パッケージが未開封かつ無傷であれば内容品は無菌状態です。

注意：

この製品は改造しないで下さい。

(合衆国)連邦法の規定により、この製品は医師または医師の指示・管理下以外では使用しないで下さい。

この製品は、血管造影、電気生理及び心腔内刺激、記録の技術訓練を受けた医師以外は使用しないで下さい。

この製品は、国際安全規格に合致した装置とのみご使用下さい。

各々の患者の血管走行や医師の技術によって、様々な手技が必要になる場合があります。

電気生理学的検査における、本カテーテルの使用や技術の詳細については、医学書を参照し、訓練や実際の経験に基づいて行って下さい。

乾燥した冷暗所に保管して下さい。

電気生理学的検査における準備すべき装置

1. 透視検査装置
2. プログラマブル刺激装置
3. ポリグラフ(50mm/秒から200mm/秒まで記録紙速度が変更可能なもの)
4. 蘇生装置
5. 心腔内電極カテーテル
6. イントロデューサセット

適応

デイグ社の電気生理用カテーテルは様々な不整脈の評価・診断に使用することができます。

禁忌

- 急性因子によって患者の状態が通常と異なり、電解質異常、急性心筋虚血、薬物中毒等の所見を有する場合、電気生理学検査は禁忌となります。
- 心疾病を有する患者に不整脈が誘発されると、それを止めるのは非常に困難であり、急性心筋梗塞、不安定狭心症、血行動態不全などによる死亡の危険を大きくします。

心臓カテーテル検査法に関するリスク

一般的に、心臓カテータリゼーションも含めた電気生理用カテーテルの使用に伴うリスクは、血栓塞栓症、心臓穿孔、タンポナーデ、感染症などです。電気的刺激に起因して、心房細動、電気的除細動を必要とする心室頻脈(VT)や心室粗細動を誘発する場合があります。

カテーテル位置決定手順

以下は、一般的な患者に対する一般的な検査手順です。

- 患者へのインフォームドコンセント
- 抗不整脈剤－検査のために、抗不整脈剤の投与を中断する場合は、常時、十分注意してモニタして下さい。
- 準備投薬－検査への電気生理学的影響があるため可能な限り避けて下さい。
  注：局部麻酔を行って下さい。(エピネフリンなしのリドカイン 0.5%-1%)リドカインが全身に作用することに伴う電気生理学的影響を避けるため、必要最小量を投与して下さい。
- ほとんどの電気生理用カテーテルは大腿静脈から挿入します。静脈アプローチはセルジンガー法がしばしば用いられます。
- 電気生理用カテーテルを位置させます。
- 心内電位図を記録します。
  注：抗凝血薬の使用をお薦め致します。

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1. The product was packaged and labeled by Daig.

2. The failed product must be returned to Daig and becomes the property of Daig.

3. The product has not been mishandled, reprocessed or altered in any way.

4. The product was used before the "USE BEFORE" date marked on the packaging of the product.

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LIVEWIRE™

STEERABLE ELECTROPHYSIOLOGY CATHETER
Instructions for use

STEUERBARER ELEKTROPHYSIOLOGIE-KATHETER
Gebrauchsanweisung

CATHETER ORIENTABLE D'ELECTROPHYSIOLOGIE
Mode d'emploi

CATETERE ORIENTABILE PER ELETTROFISIOLOGIA
Istruzioni per l'uso

CATETER ELECTROFISIOLOGICO DIRECCIONAL
Instrucciones de uso

ステラブル電気生理検査用電極カテーテル
取扱説明

LIVEWIRE™
STEERABLE ELECTROPHYSIOLOGY CATHETER

See Product Catalog for Reorder Numbers and product description.

READ INSTRUCTIONS FOR USE PRIOR TO USE OF THIS DEVICE.

SEE INDIVIDUAL STERILE PACKAGE LABEL FOR CONTENTS.

SINGLE-USE DISPOSABLE MEDICAL DEVICE. CONTENTS ARE STERILE IF PACKAGE IS UNOPENED AND UNDAMAGED. DO NOT RESTERILIZE.

CAUTION: FEDERAL (U.S.A.) LAW RESTRICTS THIS DEVICE TO USE BY OR ON THE ORDER OF A PHYSICIAN.

DESCRIPTION

The Daig Livewire™ Steerable Electrophysiology Catheter is designed for use in temporary intracardiac electrocardiographic recording, mapping, and/or pacing.

APPLICATION

The Daig Livewire™ Steerable Electrophysiology Catheter is a flexible electrode catheter constructed of a polyurethane insulation/shaft and incorporates platinum electrodes. The active tip may be manipulated by remote means located at the proximal end of the catheter.

CAUTION:

- **Do not** alter this device.
- Inspect all components prior to use.
- Not recommended for long term pacing.
- Unipolar resistance should not exceed 50 ohms.
- **Do not reuse this device.** Thorough cleaning of biological and foreign material is not possible. Adverse patient reactions may result from reuse of this device.
- Use of this device should only extend to those physicians who are skilled in the techniques of transvenous intracardiac studies and temporary pacing.
- Vascular and/or cardiac perforation may occur during use. If resistance is observed, **DO NOT FORCE CATHETER**. Withdraw catheter, correct difficulty, and reinsert.
- Observe polarity.
- Use patient isolated equipment.
- This device should only be used with equipment that complies with international safety standards.
- Proper electrical functioning of this device requires that you handle the Livewire™ Steerable Electrophysiology Catheter with care. Stretching and/or kinking while wiping may result in damage.
- These instructions are general in nature. The physician may wish to defer from these instructions in light of personal clinical experience.
- Become thoroughly familiar with the operation of the proximally located tip deflection control handle.
- **STORE IN A COOL, DARK, DRY PLACE.**

CONTRAINDICATIONS

- This device is contraindicated for use as an ablation catheter.

SUGGESTED DIRECTIONS FOR USE

1. Use a Daig Fast-Cath™ Introducer to insert the Livewire™ Steerable Electrophysiology Catheter.
2. Always use fluoroscopy when positioning the electrode catheter.
3. To record intracardiac electrograms, connect patient cable to catheter. Observe polarity of proximal end connector pins of patient cable when connecting to an ECG amplifier.
4. To use this device for temporary pacing, connect patient cable to catheter. Observe polarity of proximal end connector pins of patient cable when connecting to an external pulse generator or pacing systems analyzer.
5. Use care to isolate any unused connector pins. This will reduce the chances of developing accidental current pathways to the heart.
6. To manipulate the tip portion of this catheter, rotate the actuator control located in the handle at the proximal end of the catheter.
7. Always use fluoroscopy when manipulating tip of catheter.
8. Always straighten catheter tip before removing catheter from patient.

LIVEWIRE™
STEUERBARER ELEKTROPHYSIOLOGIE-KATHETER

Bestellnummern und Produktbeschreibung sind im Katalog zu finden.

DIE GEBRAUCHSANWEISUNG VOR VERWENDUNG DIESES GERÄTES LESEN.

INHALTSVERZEICHNIS BEFINDET SICH AUF DEM AUFKLEBER DER STERILEN EINZELPACKUNG.

MEDIZINISCHER EINMALGEBRAUCHSARTIKEL. DER INHALT IST STERIL, SO LANGE DIE VERPACKUNG UNGEÖFFNET UND UNBESCHÄDIGT IST. NICHT RESTERILISIEREN.

VORSICHT: DAS GERÄT DARF NUR VON EINEM ARZT ODER IN SEINEM AUFTRAG BENUTZT WERDEN.

BESCHREIBUNG

Der Daig Livewire™ Steuerbare Elektrophysiologie-Katheter ist für die Verwendung in temporären intrakardialen elektrokardiographischen Aufzeichnungen, Kartierungen und/oder Schrittmachereinsätzen vorgesehen.

ANWENDUNG

Der Daig Livewire™ Steuerbare Elektrophysiologie-Katheter besitzt eine flexible Elektrode, deren Schaft mit Polyurethan isoliert und mit Platin-Elektroden ausgerüstet ist. Die aktive Spitze kann durch eine am proximalen Ende des Katheters situierte Fernsteuerung manipuliert werden.

VORSICHT:

- Das Gerät **darf nicht** verändert werden.
- Alle Bestandteile vor Gebrauch prüfen.
- Nicht für langzeitige Schrittmachung einsetzen.
- Unipolarer Widerstand soll nicht 50 Ohm überschreiten.
- **Dieses Gerät nicht wiederverwenden.** Gründliche Reinigung und Beseitigung von biologischen und Fremdmaterialien ist nicht möglich. Unerwünschte Patientenreaktionen können durch die Wiederverwendung dieses Gerätes verursacht werden.
- Die Anwendung dieses Gerätes ist auf Ärzte zu beschränken, die in den Techniken der transvenösen intrakardialen Untersuchungen und temporären Schrittmachung ausgebildet sind.
- Vaskuläre und/oder kardiale Perforation kann während der Benutzung eintreten. Wenn Widerstand festgestellt wird, **DIE BEWEGUNG DES KATHETERS NICHT ERZWINGEN.** Katheter herausnehmen, Schwierigkeit aufheben und erneut einführen.
- Polarität feststellen.
- Patientenisolierte Geräte verwenden.
- Dieses Gerät ist nur mit Einrichtungen zu verwenden die den internationalen Sicherheitsnormen entsprechen.
- Zum richtigen elektrischen Funktionieren dieses Gerätes ist eine sorgfältige Behandlung des Livewire™ Steuerbaren Elektrophysiologie-Katheters notwendig.
- Diese Anweisungen sind von allgemeiner Natur. Der Arzt kann sich auf Grund seiner persönlichen klinischen Erfahrung unter Umständen entschließen von diesen Anweisungen abzuweichen.
- Werden Sie vollkommen vertraut mit dem Betrieb des proximal befindlichen Spitzendeflexion-Steuergriffs.
- **KÜHL, DUNKEL UND TROCKEN AUFBEWAHREN.**

KONTRAINDIKATIONEN

- Dieses Gerät ist kontraindiziert für die benutzung als Katheter-Ablation.

HINWEISE FÜR DIE ANWENDUNG

1. Einen Daig Fast-Cath™–Einführer zur Einführung des Livewire™ Steuerbaren Elektrophysiologie-Katheters verwenden.
2. Immer Fluoroskopie bei der Positionierung des Elektrodenkatheters einsetzen.
3. Zur Aufzeichnung intrakardialer Elektrogramme, Patientenkabel an den Katheter anschließen. Beim Anschließen an einen EKG-Verstärker ist die Polarität der Verbindungsstifte am proximalen Ende des Patientenkabels zu beachten.
4. Bei Benutzung dieses Gerätes zur temporären Schrittmachung, Patientenkabel an den Katheter anschließen. Beim Anschließen an einen externen Pulsgenerator oder Schrittmachersystem-Analysator ist die Polarität der Verbindungsstifte am proximalen Ende des Patientenkabels zu beachten.
5. Unbenutzte Verbindungsstifte sind sorgfältig zu isolieren. Damit werden die Möglichkeiten zur Entstehung von versehentlichen Strompfaden zum Herz verringert.
6. Zur Manipulation des Spitzenteils dieses Katheters, die im Griff am proximalen Ende dieses Katheters befindliche Betätigungssteuerung rotieren.
7. Immer Fluoroskopie bei der Manipulation der Katheterspitze benutzen.
8. Immer die Katheterspitze vor Abnahme des Katheters vom Patienten ausrichten.

LIVEWIRE™
CATETERE ORIENTABILE PER ELETTROFISIOLOGIA

Vedere il catalogo prodotti per i numeri di codice e la descrizione del prodotto.

LEGGERE ATTENTAMENTE LE ISTRUZIONI PRIMA DELL'USO.

PER IL CONTENUTO DI CIASCUN PACCO STERILE, VEDERE L'ETICHETTA.

DISPOSITIVO MEDICO MONOUSO. IL CONTENUTO È STERILE SE IL PACCO È CHIUSO E NON DANNEGGIATO. NON RISTERILIZZARE.

ATTENZIONE: L'USO DI QUESTO PRODOTTO È CONSENTITO SOLAMENTE AI MEDICI OPPURE SECONDO LE LORO ISTRUZIONI.

DESCRIZIONE

Il catetere orientabile Daig Livewire™ per elettrofisiologia è studiato per la registrazione elettrocardiografica intracardiaca temporanea, il mappaggio e/o il pacing.

APPLICAZIONE

Il catetere orientabile Daig Livewire™ per elettrofisiologia è un catetere flessibile a elettrodi composto da un corpo in poliuretano isolante ed elettrodi incorporati in platino. La punta orientabile può essere manovrata da comandi posti all'estremità prossimale del catetere.

ATTENZIONE:

- **Non** si modifichi questo dispositivo.
- Controllare tutti i componenti prima dell'uso.
- Non utilizzabile per procedure di pacing a lungo termine.
- La resistenza unipolare non dovrebbe essere superiore ai 50 ohms.
- **Non riutilizzare questo dispositivo**. Non è possibile effettuare una completa pulizia del catetere da materiale biologico o altro. Il riutilizzo di questo dispositivo può comportare diverse reazioni nel paziente.
- L'uso di questo dispositivo è consentito esclusivamente a personale medico esperto in studi intracardiaci transvenosi e pacing temporaneo.
- Un uso improprio di questo prodotto può implicare il rischio di perforazione vascolare e/o cardiaca. Se viene avvertita resistenza, **NON FORZARE**. Ritirare il catetere, correggere la posizione e reinserire.
- Rilevare la polarità.
- Utilizzare i sistemi di isolamento del paziente.
- Questo dispositivo deve essere usato solo con apparecchiatura conforme alle norme internazionali di sicurezza.
- Per ottenere un'ottimale prestazione del catetere orientabile Daig Livewire™ per elettrofisiologia è necessario manipolarlo con cura. Stiramenti o piegamenti durante l'uso possono danneggiarlo.
- Seguire le istruzioni fornite in linea generale. L'esperienza indicherà poi come procedere nel caso specifico.
- Familiarizzare con il sistema di orientamento della punta del catetere.
- **CONSERVARE IN LUOGO FRESCO E ASCIUTTO E AL RIPARO DELLA LUCE.**

CONTROINDICAZIONI

- Questo sistema è controindicato per essere utilizzato come catetere d'ablazione.

SUGGERIMENTI PER L'USO

1. Utilizzare un introduttore Daig Fast-Cath™ per inserire il catetere orientabile Daig Livewire™ per elettrofisiologia.
2. Posizionare sempre il catetere sotto controllo fluoroscopico.
3. Per registrare l'ECG intracardiaco, connettere il cavo paziente al catetere. Rilevare la polarità all'estremità prossimale del connettore a pin del cavo paziente quando si collega con un'amplificatore di ECG (poligrafo).
4. Per usare questo dispositivo per la stimolazione temporanea, collegare il cavo-paziente al catetere. Rilevare la polarità all'estremità prossimale del connettore con pin del cavo-paziente se si collega con un generatore di impulsi o con analizzatore della stimolazione.
5. Isolare i pin inutilizzati. Questo accorgimento ridurrà le possibilità di sviluppo di correnti accidentali dirette al cuore.
6. Per orientare la punta del catetere, ruotare il dispositivo di controllo posto all'estremità prossimale del catetere.
7. Manovrare il catetere sempre sotto controllo fluoroscopico.
8. Porre sempre la punta in posizione diritta quando si rimuove il catetere.

LIVEWIRE™
CATETER ELECTROFISIOLOGICO DIRECCIONAL

Ver el catálogo de productos para obtener los números de referencia y la descripción del producto.

LEA LAS INSTRUCCIONES DE USO ANTES DE USAR ESTE DISPOSITIVO.

EN LA ETIQUETA DE CADA PAQUETE INDIVIDUAL ESTERIL SE MENCIONA EL CONTENIDO.

DISPOSITIVO MEDICO DESECHABLE DE UN SOLO USO. EL CONTENIDO ES ESTERIL SI EL PAQUETE ESTA CERRADO Y SIN DAÑAR. NO VOLVER A ESTERILIZAR.

PRECAUCION: LA UTILIZACION DEL PRODUCTO ESTA PERMITIDA UNICAMENTE A UN MEDICO O SEGUN SUS INDICACIONES.

DESCRIPCION

El Catéter Electrofisiológico Direccional Daig Livewire™ está diseñado para utilizarse en el registro temporal de electrocardiografía intracardiaca, mapeo y/o de estimulación cardiaca.

APLICACION

El Catéter Electrofisiológico Direccional Daig Livewire™ es un catéter flexible de electrodo construido de aislador/funda de poliuretano e incorpora electrodos de platino. La punta activa puede ser manipulada por medios remotos localizados en el extremo proximal del catéter.

PRECAUCION:

- **No** alterar este dispositivo.
- Inspeccione todos los componentes antes de usarse.
- No se recomienda para estimulación cardiaca permanente.
- La resistencia unipolar no debe exceder de 50 ohms.
- **No re-use este dispositivo**. No es posible la limpieza completa de materia biológica y cuerpos extraños. El re-uso de este dispositivo puede resultar en reacciones adversas para el paciente.
- El uso de este dispositivo debe ser extendido únicamente a aquellos médicos que tengan destreza en las técnicas de estudios intracardiacos transvenosos y estimulo cardiaco temporal.
- Perforación vascular o cardiaca puede ocurrir durante su uso. Si se observa resistencia, **NO FORCE EL CATETER**. Saque el catéter, corrija la dificultad y reinserte.
- Observe la polaridad.
- Utilíce equipo para aislar al paciente.
- Este dispositivo sólo deberá utilizarse con aquellos equipos que cumplan los estándares internacionales de seguridad.
- El funcionamiento eléctrico adecuado de este dispositivo requiere que Ud. maneje el Catéter Electrofisiológico Direccional Daig Livewire™ con cuidado. Estirarlo o torcerlo al limpiarlo puede dañarlo.
- Estas instrucciones son de naturaleza general. El médico podría diferir de estas instrucciones basado en su experiencia clínica personal.
- Familiarícese completamente con la operación del control de la punta de deflección proximal.
- **ALMACENAR EN UN LUGAR FRESCO, OSCURO Y SECO.**

CONTRAINDICACIONES

- Este dispositivo es contraindicado para usarse como un catéter de ablación.

INSTRUCCIONES SUGERIDAS PARA LA UTILIZACION

1. Utilíce un introductor Daig Fast-Cath™ para insertar el Catéter Electrofisiológico Direccional Livewire™.
2. Utilíce siempre fluoroscopía cuando posicione el catéter de electrodo.
3. Para registrar electrogramas intracardiacos, conécte el cable del paciente al catéter. Observe la polaridad del conector de agujas del extremo proximal del cable del paciente cuando conecte a un amplificador de ECG.
4. Para utilizar este dispositivo en estimulación cardiaca temporal, conécte el cable del paciente al catéter. Observe la polaridad del conector de agujas del extremo proximal del cable del paciente cuando conecte a un generador de pulso externo o analizador de sistema de estimulación.
5. Tenga cuidado de aislar cualquier conector de agujas que esté sin usar. Esto reducirá las probabilidades de desarrollar trayectorias de corriente accidental al corazón.
6. Para manipular la porción de la punta de este catéter, gíre el control de mando localizado en el mango en el extremo proximal del catéter.
7. Utilíce siempre fluoroscopía cuando manipule la punta del catéter.
8. Siempre enderece la punta del catéter antes de removerlo del paciente.

LIVEWIRE™
ステラブル電気生理検査用電極カテーテル

リオーダー番号および製品説明は、製品カタログをご参照下さい。

この製品を使用する前に、取扱説明書をお読み下さい。

構成品については、個々の滅菌パッケージラベルをご参照下さい。

１回限り使用のディスポーザブル製品です。パッケージが未開封かつ無傷であれば、内容品は滅菌状態です。再滅菌は行わないで下さい。

注意：この製品は、医師又は医師の指示によってのみ使用して下さい。

製品説明

デイグ社 Livewire™ ステラブル電気生理検査用電極カテーテルは、一時的な心内心電図の記録、マッピング、ペーシングに使用されるようデザインされています。

適用

デイグ社 Livewire™ ステラブル電気生理検査用電極カテーテルは、ポリウレタンの絶縁／シャフトから成るフレキシブルな電極カテーテルで、プラチナ電極が組み込まれています。可動端は、カテーテルの近位端にあるリモート装置によって操作することが可能です。

注意

- **この製品は、改造しないで下さい。**
- 使用前に全構成品を検査して下さい。
- 長期ペーシングにはお薦めしません。
- 単極抵抗は、50オームを越えないで下さい。
- **この製品を再使用しないで下さい。**生物学的物質および異物の完全な洗浄は、不可能です。有害な患者の反応が、この製品の再使用から起こる可能性があります。
- この製品は、経静脈心内検査および一時ペーシングを行う技術に熟練した医師が使用して下さい。
- 使用中、血管／心臓の穿通が起こるかもしれません。抵抗を感じたら、**カテーテルを押し込まないで下さい。**カテーテルを引き抜き、問題を訂正し、再挿入して下さい。
- 極性を観察して下さい。
- 患者アイソレーション装置を使用して下さい。
- この製品は、国際安全規格に合致した装置とのみご使用下さい。
- この製品が電気的に正しく機能するためには、Livewire™ ステラブル電気生理検査用電極カテーテルを注意深く取り扱う必要があります。カテーテルを拭く場合、伸ばしたりあるいは折り曲げたりすることは損傷につながるかもしれません。
- 上述の取扱説明の指示は、一般的な事柄です。医師は、個人的な臨床経験にもとずき、これらの指示事項と異なった方法を望んでも構いません。
- 近位端のデフレクションコントロールハンドルの操作に十分に慣れて下さい。
- 乾燥した冷暗所に保管して下さい。

禁忌

- この製品は、アブレーションカテーテルとしての使用は禁忌とされています。

推奨使用法

1. Livewire™ ステラブル電気生理検査用電極カテーテルを挿入するため、デイグ社Fast-Cath™イントロデューサを使用して下さい。
2. 電極カテーテルを定置する際には、必ず透視装置を使用して下さい。
3. 心内心電図を記録するため、患者ケーブルをカテーテルに接続して下さい。ECGアンプに接続する際、患者ケーブルの近位コネクターピンの極性に注意して下さい。
4. 一時ペーシング用にこの製品を使用するため、患者ケーブルをカテーテルに接続して下さい。体外式パルス発生器あるいはペーシングシステムアナライザに接続する際、患者ケーブルの近位コネクターピンの極性に注意して下さい。
5. 使用されていないコネクターピンのアイソレーションに注意して使用して下さい。これにより、心臓への偶発的な電流回路が形成される危険性を減らします。
6. このカテーテルの先端部を操作するには、カテーテルの近位端のハンドルにあるアクチュエーターコントロールを回転させて下さい。
7. カテーテル先端部を操作する際には、必ず透視装置を使用して下さい。
8. カテーテルを患者から取り除く前には、必ずカテーテルを真っすぐに整えて下さい。

LIMITED WARRANTY AND DISCLAIMER

Daig Corporation ("Daig") hereby warrants that if any Daig product fails to perform within normal tolerances for a patient due to a defect in materials or workmanship, Daig will provide, at no charge, a replacement Daig product for the patient's use. This limited warranty applies only if each of the following conditions are met.

1. The product was packaged and labeled by Daig.
2. The failed product must be returned to Daig and becomes the property of Daig.
3. The product has not been mishandled, reprocessed or altered in any way.
4. The product was used before the "USE BEFORE" date marked on the packaging of the product.

No representation or warranty is made that a Daig product will not fail. Daig disclaims responsibility for any medical complications, including death, resulting from the use of its products. Except as expressly provided by this limited warranty, DAIG IS NOT RESPONSIBLE FOR ANY DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES BASED ON ANY DEFECT, FAILURE, OR MALFUNCTION OF ITS PRODUCTS, WHETHER THE CLAIM IS BASED ON WARRANTY, CONTRACT, TORT, OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages however, so the above limitation or exclusion may not apply to you.

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U.S. PATENT NOS. 5,395,328 & 5,395,329

CE 0044

DAIG
a St. Jude Medical Company

PACEL™

BIPOLAR PACING CATHETER
Instructions for use

BIPOLARER SCHRITTMACHER-KATHETER
Gebrauchsanweisung

CATHETER BIPOLAIRE DE STIMULATION CARDIAQUE
Mode d'emploi

CATETERE BIPOLARE PER PACEMAKER
Istruzioni per l'uso

CATETER BIPOLAR DE ESTIMULACION
Instrucciones de uso

双極ペーシングカテーテル
取扱説明書

PACEL™
BIPOLAR PACING CATHETER

See Product Catalog for Reorder Numbers.

SEE INDIVIDUAL STERILE PACKAGE LABEL FOR CONTENTS.

SINGLE-USE DISPOSABLE MEDICAL DEVICE. CONTENTS ARE STERILE IF PACKAGE IS UNOPENED AND UNDAMAGED. DO NOT RESTERILIZE.

CAUTION:

DO NOT alter this device.

Federal (U.S.A.) law restricts this device to use by or on the order of a physician.

DO NOT wipe this Pacing Catheter with organic solvents (alcohols, ethers, esters, phenols, etc.) or alcohol base antiseptics.

When long term catheterization (greater than 48 hours) is necessary, one should consider the use of a prophylactic systemic anticoagulant along with antibiotic protection.

STORE IN A COOL, DARK, DRY PLACE.

APPLICATION

PACEL bipolar cardiac pacing catheters are intended for use in intracardiac pacing and/or ECG recording.

SUGGESTED DIRECTIONS FOR USE

1. An ECG recording system should be attached to the patient prior to beginning the procedure to facilitate monitoring for arrhythmias and for electrode potentials (tip electrode).
2. Provide a sterile work area in which to place the package components.
3. Venous access may be created by cutdown or by the use of a percutaneous catheter introducer.
4. Connect the V lead of a patient isolated ECG to the "distal" electrode of the pacing catheter in order to obtain electrode tip potentials.

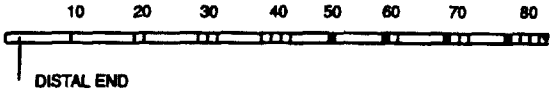
   CAUTION:

   Use battery powered or patient isolated equipment.

   This device should only be used with equipment that complies with international safety standards.

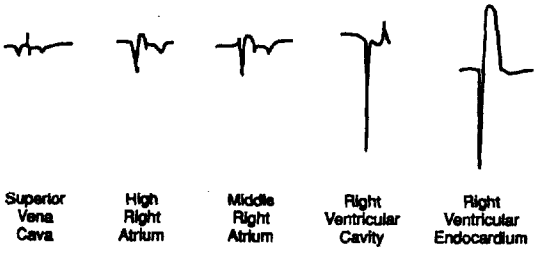
   Observe polarity of bipolar pacing catheter.
5. Advance pacing catheter into the vein and into the heart until the ECG shows contact with endocardial tissue (elevation of ST segment). Electrode position may also be determined by fluoroscopy. Some catheters are depth marked as an aid in catheter placement.

DEPTH MARK CODE — 10CM
(NOT TO SCALE)



6. Pacing threshold measurement. A general indication of proper placement of the pacing catheter electrode is to achieve a capture threshold of less than 1.0 mA accompanied by an ST elevation of 2 to 3 mV measured from the tip electrode.
7. Secure the pacing catheter at the insertion site using aseptic technique.
8. Confirm catheter position with portable chest X-ray if desired.

Figure 1. Tip Electrode ECG Readings



POSSIBLE COMPLICATIONS

Arrhythmias, Endocarditis, Pneumothorax, Cardiac Perforation, Cardiac Tamponade, Nerve Stimulation, Sepsis/Infection, Thrombosis/Thrombophlebitis, Arteriovenous Fistula Formation, Damage to Vessel or Valve Structures.

CONTRAINDICATIONS

Patients with recurrent sepsis or with a hypercoagulable state should not be considered candidates for transvenous catheters since the catheter could serve as a focal point for septic or bland thrombus formation. In addition, patients with a mechanical tricuspid valve should not be considered for ventricular placement.

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DAIG
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PACEL™

FLOW DIRECTED PACING CATHETER
Instructions for use

FLUSSGESTEUERTE SCHRITTMACHER-KATHETER
Gebrauchsanweisung

SONDE DE STIMULATION A BALLON
Mode d'emploi

CATETERE PER PACEMAKER A GUIDA PNEUMATICA
Istruzioni per l'uso

CATETER DE ESTIMULACION CARDIACA CONDUCIDO POR FLUJO
Instrucciones de uso

フローダイレクティッド・ペーシングカテーテル
取扱説明

PACEL™
FLOW DIRECTED PACING CATHETER

See Product Catalog for Reorder Numbers.

MISUSE OF THIS CATHETER AND ACCESSORIES MAY RESULT IN SERIOUS COMPLICATIONS.

SEE INDIVIDUAL STERILE PACKAGE LABEL FOR CONTENTS.

SINGLE-USE DISPOSABLE MEDICAL DEVICE. CONTENTS ARE STERILE IF PACKAGE IS UNOPENED AND UNDAMAGED. DO NOT RESTERILIZE.

DESCRIPTION
PACEL Flow Directed Pacing Catheters (FDPC) are designed to establish temporary right ventricular pacing without flouroscopy. Electrodes at the catheter tip enable ECG monitoring and bipolar pacing. A balloon located between the electrodes facilitates positioning by flow direction. In some models a lumen terminates 19 cm proximal to the tip for the infusion of medication.

CAUTION:
DO NOT alter this device.

Federal (U.S.A.) law restricts this device to use by or on the order of a physician.

Isolated or battery powered equipment is recommended for use with intracardiac catheters.

This device should only be used with equipment that complies with international safety standards.

Proper electrical functioning of this device requires that you handle the Flow Directed Pacing Catheter with care. Stretching and/or kinking while wiping may result in damage.

DO NOT wipe Flow Directed Pacing Catheter with organic solvents (alcohols, ethers, esters, phenols, etc.) or alcohol base antiseptics.

The following instructions are general in nature. The physician may wish to alter these procedures (instructions) in light of personal clinical experience.

STORE IN A COOL, DARK, DRY PLACE.

RECOMMENDED EQUIPMENT
1. FDPC or FDPC Kit
2. ECG Monitor
3. External Pacemaker (Pulse Generator)
4. Defibrillator and respiratory assist equipment and/or anti-arrhythmia drugs should be readily available in the event complications arise during catheter placement.

INDICATIONS FOR USE
Daig Flow Directed Bipolar Pacing Catheters are indicated for use in temporary, transvenous right ventricular pacing.

CONTRAINDICATIONS
Patients with recurrent sepsis or with a hypercoagulable state should not be considered as candidates for transvenous catheters since the catheter could serve as a focal point for septic or bland thrombus formation. In addition, patients with a tricuspid valve prosthesis should not be considered for ventricular pacing.

INSERTION
Insertion of this device into the right ventricle can be performed at the patient's bedside (generally without the use of fluoroscopy) by ECG monitoring.

PREPARATION AND TESTING
Prior to catheter introduction, test balloon integrity by inflating and deflating with Bacteria Filtered Carbon Dioxide (CO_2) while balloon is submerged in sterile saline or water. Use correct inflation volume of 1.25 cc. **DO NOT OVER-INFLATE.** If balloon leaks (bubbles visible while inflated balloon is submerged in sterile saline or water), do not use the catheter.

NOTES:
1. On pacing catheters with an infusion lumen, flush with heparinized, sterile saline or 5 percent dextrose prior to insertion in body vessels.
2. Continuous slow-drip or repeated flushing of heparinized saline solution or heparinized 5 percent dextrose solution will aid in maintaining patency of the infusion lumen.

SUGGESTED DIRECTIONS FOR USE
1. The pacing catheters should be introduced via appropriate size percutaneous introducer assembly or a cutdown.
2. If introducer set provided with the kit is used, proceed as follows.
3. Insert needle/sheath into vessel and observe venous return.

   NOTE: A syringe may be attached to the needle to add stability during insertion and to enable verification of venous return.

   CAUTION: INSERTION INTO ARTERY MAY CAUSE EXCESSIVE BLEEDING AND/OR OTHER COMPLICATIONS.
4. Remove the needle leaving introducer sheath in place. Place thumb over the exposed orifice of the sheath to reduce air aspiration and/or blood loss.

   CAUTION: DO NOT RE-INSERT NEEDLE WHILE SHEATH IS IN VEIN.
5. Having tested the balloon and flushed the infusion lumen, insert and advance catheter.

   CAUTION: DO NOT USE FORCEPS TO ADVANCE CATHETER.
6. With catheter advanced, break handle of introducer sheath and peel sheath apart while withdrawing from the vessel. Take care NOT to withdraw the catheter.

   CAUTION: THE NEED FOR SYMMETRICAL PEELING OF THE SHEATH CANNOT BE OVEREMPHASIZED. IF CATHETER WITHDRAWAL IS A PROBLEM WHEN THE SHEATH IS PEELED, COMPLETELY WITHDRAW THE SHEATH FROM THE INTRODUCTION SITE WHILE HOLDING THE CATHETER IN POSITION. THEN PEEL THE SHEATH SYMMETRICALLY FROM THE CATHETER BY GRASPING BOTH HANDLE HALVES.
7. Advance the catheter into the vein and connect the distal tip electrode to the V lead of an isolated ECG monitor. An adapter is provided in PACEL FDPC Kits for this purpose.
8. Advance the catheter into the right atrium. ECG monitoring (Figure 1) and/or fluoroscopy can be used while advancing catheter. When the catheter enters the right atrium, a large atrial complex (P-wave) is indicated. Catheters are depth marked as an aid in catheter placement.

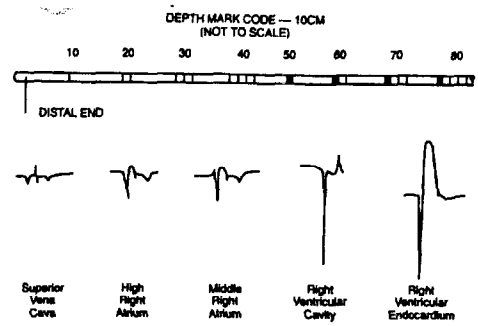

Figure 1. Tip Electrode ECG Readings

9. While monitoring the ECG at the catheter's distal tip, inflate the balloon to its recommended inflation volume using Bacteria Filtered Carbon Dioxide (CO_2) and advance the catheter into the right ventricle. Upon entry into the ventricle, immediately deflate the balloon to prevent continued passage into the pulmonary outflow tract. Entry in the right ventricle is evidenced by an increase in the ventricular complex and a decrease in the amplitude of the atrial complex.

   CAUTION: ONLY BACTERIA FILTERED CARBON DIOXIDE (CO_2) SHOULD BE USED FOR BALLOON INFLATION, BECAUSE IT WILL RAPIDLY ABSORB INTO THE BLOOD IN THE UNLIKELY EVENT OF A BALLOON RUPTURE WITHIN THE CIRCULATORY SYSTEM. AIR SHOULD NOT BE USED TO INFLATE BALLOON DUE TO THE RISK OF AIR EMBOLISM IF THE BALLOON SHOULD RUPTURE. DO NOT USE A LIQUID FOR BALLOON INFLATION.

   NOTE: Carbon Dioxide (CO_2) diffuses through the natural rubber balloon resulting in a decrease in diameter of approximately 0.5 mm per minute. It may be necessary to reinflate the balloon if extended periods of inflation are required. Completely deflate the balloon (remove syringe and open valve) prior to reinflation with the recommended volume of Bacteria Filtered Carbon Dioxide (CO_2).

   CAUTION: AVOID INSERTION OF A REDUNDANT LENGTH OF CATHETER AS THIS CAN RESULT IN LOOPING OR KNOTTING (SEE PRECAUTIONS).
10. Advance the pacing catheter until an ST segment elevation is observed, indicating contact with the endocardium and connect the pacing catheter to an isolated external pacemaker. The distal electrode is connected to the negative terminal of the pacemaker and the proximal electrode is connected to the positive terminal.
11. Adjust the pulse generator and the position of the catheter as required to establish stable pacing as recommended by the pacemaker manufacturer.
12. Aseptically secure the catheter at the point of insertion to prevent catheter migration, possible tip dislodgement, and loss of capture. The catheter stability and tip location may be verified radiographically.

POSSIBLE COMPLICATIONS
General complications associated with the use of indwelling transvenous pacing catheters include: Arrhythmias, Thrombocytopenia, Pneumothorax, Endocardial Perforation, Cardiac Tamponade, Diaphragmatic Stimulation, Sepsis/Infection, Thrombosis, Thrombophlebitis, Arteriovenous Fistula Formation, Damage to Vessels or Valve Structure, and knotting of the catheter.

PRECAUTIONS
Knotting and Looping

Knotting of flexible catheters is possible after the looping of an excessive or redundant length of catheter during insertion. To prevent knots, avoid inserting redundant lengths of catheter. If a loop is suspected, retract the catheter to the right atrium and reposition. If a knot exists and it is free of intracardiac structures, it can be gently withdrawn through the site of entry.

Balloon Inflation

ONLY CARBON DIOXIDE (CO_2) SHOULD BE USED AS A BALLOON INFLATION MEDIA. Air should not be used to inflate balloon due to the risk of air embolism should the balloon rupture. **DO NOT USE A LIQUID FOR BALLOON INFLATION.** If balloon reinflation is required, insure that the balloon is fully deflated by removing the syringe and venting the balloon by opening the valve. **DO NOT OVERINFLATE THE BALLOON.**

Deflate balloon prior to withdrawal of catheter.

Use ECG or fluoroscopy when advancing catheter and to confirm placement.

SHELF LIFE
The recommended shelf life is 18 months as marked on the package. Storage beyond the indicated package expiration may result in balloon deterioration. Resterilization will not extend shelf life.

PACKAGING
The packaging protects the catheter from physical damage and from exposure to the atmosphere. Keep the catheter inside the shelf box until use. Store in a cool, dark, dry place.

LIMITED WARRANTY AND DISCLAIMER

Daig Corporation ("Daig") hereby warrants that if any Daig product fails to perform within normal tolerances for a patient due to a defect in materials or workmanship, Daig will provide, at no charge, a replacement Daig product for the patient's use. This limited warranty applies only if each of the following conditions are met.

1. The product was packaged and labeled by Daig.

2. The failed product must be returned to Daig and becomes the property of Daig.

3. The product has not been mishandled, reprocessed or altered in any way.

4. The product was used before the "USE BEFORE" date marked on the packaging of the product.

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IMS DATA

Each quarter IMS conducts audits of hospital purchases of medical devices and provides unit dollar market information. IMS is the standard in the medical device industry for determining market share.

Enclosed is the IMS report that reflects data from the first quarter of 2000 for electrophysiology catheters which includes the class of diagnostic non-lumen leads and ablation catheters.

IMS Health first quarter 2000 class 1271 and partial 1303.

Company Name	Q1 2000 Market Share % Units
Daig	27.5
EPT	25.8
Cordis	24.4
Bard	18.2
Other	4.1

Also enclosed is the IMS report for temporary pacing catheters class 1267 and 1266.

Company Name	Q1 2000 Market Share % Units
Bard	34.6
Daig / St Jude	26.6
Baxter	25.3
Other	13.5

TEMPORARY PACING CATHETERS

IMS HEALTH - Hospital Supply Index	Dollars CalQtr/3/2000 (Absolute)	Dollars CalQtr/3/2000 %PPG (Absolute)	Dollars CalQtr/3/2000 %V (Absolute)	Dollars MAT/3/2000 (Absolute)	Dollars MAT/3/2000 %PPG (Absolute)	Dollars MAT/3/2000 %V (Absolute)	Units CalQtr/3/2000 (Absolute)	Units CalQtr/3/2000 %PPG (Absolute)	Units CalQtr/3/2000 %V (Absolute)	Units MAT/3/2000 (Absolute)	Units MAT/3/2000 %PPG (Absolute)	Units MAT/3/2000 %V (Absolute)	Avg Sales Price CalQtr/3/2000 (Absolute)	Avg Sales Price MAT/3/2000 (Absolute)
DIAG NON-LUMEN LEADS 1 1271	15998959	13.7	88.1	63801312	22.3	86.8	56832	14.5	69.6	219502	13.3	66.5	281.513	290.664
BALLOON TEMP PACE LEADS 1 1267	1185073	-8.3	6.5	4938483	1.7	6.7	13129	-6	16.1	52964	-3	16	90.264	93.242
BARD ELECTROPHYSIO	421953	47.6	35.6	1421346	58	28.8	3744	41.9	28.5	12615	43.4	23.8	112.701	112.671
ELECTRODE PACING BLP 00/00	421953	47.6	100	1421346	58	100	3744	41.9	100	12615	43.4	100	112.701	112.671
008556 BIPL BALLOON 5F	366341	38.8	86.8	1250041	69.8	87.9	3266	35	87.2	11063	59.3	87.7	112.168	112.993
008635 BIPL BALLOON 4F	45416	129.4	10.8	156359	-3.1	11	375	88.4	10	1401	-23.5	11.1	121.109	111.605
006172 BIPL BALLOON 4FR	10196	389.3	2.4	14946	617.2	1.1	103	390.5	2.8	151	619	1.2	98.99	98.98
BAXTER EDWARDS DIV	421621	18.2	35.6	1592640	7.1	32.2	6282	23.2	47.8	22636	5.2	42.7	67.116	70.359
CATH PACING AEL 00/00	421621	18.2	100	1592640	7.1	100	6282	23.2	100	22636	5.2	100	67.116	70.359
97-130-5F S-G BIPOLAR	204223	76.1	48.4	609908	0.7	38.3	3050	72.2	48.6	9217	0.1	40.7	66.958	66.172
97-120-5F S-G BIPOLAR	136865	6.2	32.5	452363	-11	28.4	2251	11.4	35.8	7272	-9.3	32.1	60.802	62.206
97-K12-5F BIPOLAR KIT	65053	-18.5	15.4	399943	63.8	25.1	816	-16.4	13	4771	60.2	21.1	79.722	83.828
97-K140H-5F BIPOLAR KT	15480	-40.3	3.7	89684	-17.1	5.6	165	-36	2.6	917	-15.2	4.1	93.818	97.802
97-K13-5F BIPOLAR KIT	0	-100	0	40742	103	2.6	0	-100	0	459	92.1	2	0	88.763
MAXXIM MEDICAL	194457	-13.6	16.4	780837	3.9	15.8	1514	-11.7	11.5	5910	1.3	11.2	128.439	132.121
USCI BALLOON ELECT MQN 00/00	194457	-13.6	100	780837	3.9	100	1514	-11.7	100	5910	1.3	100	128.439	132.121
008566 INTRACARDIAC KIT	194457	-13.6	100	780837	3.9	100	1514	-11.7	100	5910	1.3	100	128.439	132.121
ARROW INT	141071	20.6	11.9	885912	18.2	17.9	1518	16.4	11.6	9145	11.4	17.3	92.932	96.874
CATH AWI 82/10	141071	20.6	100	885912	18.2	100	1518	16.4	100	9145	11.4	100	92.932	96.874
AI-07155 BALLOON PACING	141071	20.6	100	869113	16	98.1	1518	16.4	100	8982	9.4	98.2	92.932	96.762
ACP-001PX BALLOON CATH K	0	0	0	16799	—	1.9	0	0	0	163	—	1.8	0	103.061
AI-07147 PACING	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ELECTRO-CATH	5971	-98.1	0.5	257748	-73.1	5.2	71	-97.8	0.5	2658	-73.7	5	84.099	96.971
BALECTRODE ELE 00/00	3124	-98.9	52.3	232674	-73.4	90.3	27	-99.1	38	2281	-74.3	85.8	115.704	102.005
11-KBE1 KIT PACING PROBE	3124	-86.4	100	38095	-47	16.4	27	-88.1	100	338	-51.6	14.8	115.704	112.707
11-KBE2 KIT PACING PROBE	0	-100	0	158070	-74.6	67.9	0	-100	0	1566	-74	68.7	0	100.939
22-5303 BALLOON PROBE	0	-100	0	17386	-67.8	7.5	0	-100	0	132	-67.6	5.8	0	131.712
22-5303J BALL PROBE	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
22-5304J BALL PROBE	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
22-5305J BALL PROBE	0	-100	0	19123	-83.1	8.2	0	-100	0	245	-85	10.7	0	78.053
PROBE ELE 00/00	2847	-87.9	47.7	25074	-70.8	9.7	44	-87.8	62	377	-69.8	14.2	64.705	66.509
22-5305 BALLON TIP PACIN	2847	-87.9	100	25074	-70.8	100	44	-87.8	100	377	-69.8	100	64.705	66.509
MANSFIELD SCIENTIF	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
ELECTRODE PACING SMX 88/06	0	0	—	0	-100	—	0	0	—	0	-100	—	0	0
TVBF51 VENTRI-PACE BALL	0	0	—	0	-100	—	0	0	—	0	-100	—	0	0
BIPOLAR TEMP PACE LEADS 1 1266	983443	-19.9	5.4	4728403	0	6.4	11674	-23.1	14.3	57747	-3.5	17.5	84.242	81.881
BARD ELECTROPHYSIO	484057	-14.6	49.2	2581706	-0.1	54.6	4844	-14.5	41.5	25521	-1.8	44.2	99.929	101.16
ELECTRODE PACING BLP 00/00	484057	-14.6	100	2581706	-0.1	100	4844	-14.5	100	25521	-1.8	100	99.929	101.16
007151 NBIH 5F	163775	-2.7	33.8	852423	49.5	33	1501	-4.4	31	7903	49	31	109.111	107.861
007153 NBIH 6F	133029	24.1	27.5	694578	-8.9	26.9	1224	19.8	25.3	6403	-11.8	25.1	108.684	108.477
007152 NBIH 6F	37456	53.8	7.7	118204	26.9	4.6	340	57.4	7	1069	28.3	4.2	110.165	110.574
006221 BIPOLAR 4F	26673	297.2	5.5	48017	-69	1.9	349	296.6	7.2	658	-68.3	2.6	76.427	72.974
006225 BIPOLAR 5FR SEMIF	24650	-29	5.1	115667	20	4.5	356	-42.4	7.3	1823	6.7	7.1	69.242	63.449
007150 NBIH 5F	20622	-40.7	4.3	105535	8.4	4.1	207	-37.5	4.3	1110	14.7	4.3	99.623	95.077
007406 NBIH 7F	16647	-74.2	3.4	143778	-20	5.6	180	-62.7	3.7	1386	-11.7	5.4	92.483	103.736
007417 NBIH 4F	9768	91.3	2	54910	122.8	2.1	88	104.7	1.8	489	128.5	1.9	111	112.29
057152 BIPOLAR 6F	9539	—	2	16604	—	0.6	86	—	1.8	150	—	0.6	110.919	110.693
057157 BIPOLAR 6F	7908	212.3	1.6	26421	190.1	1	132	214.3	2.7	442	190.8	1.7	59.909	59.776
007157 GOETZ 6F	7265	-90.4	1.5	195671	-9.4	7.6	83	-88.7	1.7	1861	-11	7.3	87.53	105.143
008154 SPEC CARE 5F	6652	-61.8	1.4	44987	-30.7	1.7	81	-62.1	1.7	552	-30.2	2.2	82.123	81.498
057153 BIPOLAR 6F	6043	149.4	1.2	11618	-84.6	0.5	43	38.7	0.9	83	-87.5	0.3	140.535	139.976
007155 GOETZ 5F	5229	-52.9	1.1	48612	-45.3	1.9	47	-53	1	446	-42.9	1.7	111.255	108.996
006241 6F	5118	145	1.1	18420	116	0.7	67	148.1	1.4	273	148.2	1.1	76.388	67.473
007156 GOETZ 6F	2033	-70	0.4	74847	-16.4	2.9	33	-62.1	0.7	731	-11.9	2.9	61.606	102.39
007154 GOETZ 5F	1650	-54.4	0.3	6446	-71.7	0.2	27	-55	0.6	88	-62.1	0.3	61.111	73.25
001349 BIPOLAR NIH 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006222 BIPOLAR 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0

008153 SPEC CARE 4F	0	0	0	2571	-91.5	0.1	0	0	0	32	-92	0.1	0	80.344
057406 BIPOLAR 7F	0	0	0	2397	—	0.1	0	0	0	22	—	0.1	0	108.955
DAIG CORP	295577	-5.1	30.1	1221675	10.5	25.8	4678	-17.8	40.1	21477	-3.5	37.2	63.184	56.883
PACING CATH DAI 90/10	295577	-5.1	100	1196419	8.6	97.9	4678	-17.8	100	21003	-5.5	97.8	63.184	56.964
401665 PACEL BIP 5FR	73987	-18.6	25	363910	4.1	30.4	2144	-26.3	45.8	10952	-7.4	52.1	34.509	33.228
401674 BIPOLAR 5FR	65906	84.5	22.3	154841	-30.3	12.9	791	75	16.9	2086	-32.7	9.9	83.32	74.229
401450 JSN 120CM 5FR	51144	—	17.3	131596	—	11	355	—	7.6	857	—	4.1	144.068	153.554
401673 VENTRICULAR 4FR	24665	-56.3	8.3	106011	-18.8	8.9	396	-52.1	8.5	1684	-17.7	8	62.285	62.952
401675 BIPOLAR 6F	22021	104.9	7.5	78186	-1.6	6.5	327	85.8	7	1181	-9.3	5.6	67.343	66.203
401664 PACEL BIP 4FR	18932	-62.8	6.4	155856	9.5	13	237	-59.3	5.1	1987	18	9.5	79.882	78.438
401682 PACEL BIP 6FR	17565	244.1	5.9	36059	49.4	3	175	236.5	3.7	388	59.7	1.8	100.371	92.936
401666 PACEL BIP 6FR	15583	-43.7	5.3	134087	94.6	11.2	188	-40.9	4	1460	79.6	7	82.888	91.84
401697 8FR	3655	—	1.2	11582	—	1	43	—	0.9	136	—	0.6	85	85.162
401686 PACEL BIP 5FR	2119	-91.2	0.7	18171	-64.9	1.5	22	-92.2	0.5	205	-70.9	1	96.318	88.639
401622 PACEL BIP 5F RH	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
401669 PACEL BIP 6FR	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401672 PACEL BIP 7FR	0	0	0	6120	—	0.5	0	0	0	67	—	0.3	0	91.343
401676 BIPOLAR 7F	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401676 BIPOLAR 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMP EXTERN PACING DAI 86/04	0	0	0	25256	651.7	2.1	0	0	0	474	953.3	2.2	0	53.283
TL125 5FR SEMI-FLOAT	0	0	—	25256	651.7	100	0	0	—	474	953.3	100	0	53.283
ST JUDE MEDICAL IN	186392	-38	19	830494	-3.9	17.6	1936	-37.5	16.6	9569	6	16.6	96.277	86.79
PACEMAKER ACCESSOR STJ 00/00	186392	-3.8	100	813134	11.2	97.9	1936	-4.6	100	9395	22	98.2	96.277	86.55
370-230 PERV LEAD 5FR	67452	67.7	36.2	214344	7.6	26.4	724	78.3	37.4	2325	13.2	24.7	93.166	92.191
370-330 PERV LEAD 6FR	41929	-21.8	22.5	189907	-0.4	23.4	428	-26.5	22.1	1965	-0.9	20.9	97.965	96.645
370-132 PERV LEAD 4FR	38066	-35.9	20.4	311680	28.5	38.3	404	-36.1	20.9	4105	60	43.7	94.223	75.927
030-624 LEAD BIPO 4FR	18514	-30.6	9.9	55950	-9.2	6.9	195	-30.9	10.1	589	-19.5	6.3	94.944	94.992
370-420 PERV LEAD J-ATR	15587	13.5	8.4	22880	-24.4	2.8	142	10.9	7.3	210	-29.5	2.2	109.768	108.952
370-136 PERV LEAD 4FR	4844	—	2.6	18373	156	2.3	43	—	2.2	201	195.6	2.1	112.651	91.408
PACEMAKER ACCESSOR STJ 82/04	0	-100	0	17360	-86.9	2.1	0	-100	0	174	-86.9	1.8	0	99.77
370-113 PERV LEAD 4FR	0	-100	—	17360	-86.9	100	0	-100	—	174	-86.9	100	0	99.77
371-110 PERV LEAD ATR	0	0	—	0	0	0	0	0	—	0	0	0	0	0
ELECTRO-CATH	12734	-73.9	1.3	73850	-55	1.6	171	-76	1.5	976	-59.6	1.7	74.468	75.666
SILICORE PACING CA ELE 86/04	8715	-73.2	68.4	43701	-62.9	59.2	133	-75.8	77.8	684	-65	70.1	65.526	63.89
11-KSS6 SEMI-FLOAT 6FR	8715	335.3	100	27695	82.4	63.4	133	329	100	424	81.2	62	65.526	65.318
11-KSS4 SEMI-FLOAT 4FR	0	-100	0	3863	-83.4	8.8	0	-100	0	67	-83.6	9.8	0	57.657
11-KSS5 SEMI-FLOAT 5FR	0	-100	0	12143	-84.7	27.8	0	-100	0	193	-85.3	28.2	0	62.917
CLOVERLEAF PACING ELE 86/07	4019	-75.3	31.6	28594	-38.1	38.7	38	-76.5	22.2	272	-41.5	27.9	105.763	105.125
22-0666 GOETZ 6FR	4019	-29.4	100	18110	57.7	63.3	38	-29.6	100	172	57.8	63.2	105.763	105.291
22-0565 NBIH 5FR	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
22-0566 NBIH 6FR	0	-100	0	10484	-42.7	36.7	0	-100	0	100	-42.5	36.8	0	104.84
22-0567 NBIH 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-0665 GOETZ 5FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TORKFLOAT ELE 00/00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-KTF5 PACING KIT	0	0	—	0	0	—	0	0	—	0	0	—	0	0
11-KTF6 PACING KIT	0	0	—	0	0	—	0	0	—	0	0	—	0	0
TORKPACE ELE 00/00	0	0	0	1555	—	2.1	0	0	0	20	—	2	0	77.75
22-0264 GOETZ 5F	0	0	—	1555	—	100	0	0	—	20	—	100	0	77.75
22-0865 NBIH 5F	0	0	—	0	0	0	0	0	—	0	0	0	0	0
22-0866 NBIH 6F	0	0	—	0	0	0	0	0	—	0	0	0	0	0
22-0867 NBIH 7F	0	0	—	0	0	0	0	0	—	0	0	0	0	0
22-0967 GOETZ 7F	0	0	—	0	0	0	0	0	—	0	0	0	0	0
MAXXIM MEDICAL	4683	—	0.5	19270	54.7	0.4	45	—	0.4	186	53.7	0.3	104.067	103.602
USCI PACING ELECTR MQN 00/00	4683	—	100	19270	54.7	100	45	—	100	186	53.7	100	104.067	103.602
008416 INTRACARDIAC KIT	4683	—	100	16223	88.5	84.2	45	—	100	155	89	83.3	104.067	104.665
008417 INTRACARDIAC KIT	0	0	0	3047	-20.8	15.8	0	0	0	31	-20.5	16.7	0	98.29
ARROW INT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATH AWI 82/10	0	0	—	0	0	—	0	0	—	0	0	—	0	0
AI-07150 STYLET PACING	0	0	—	0	0	—	0	0	—	0	0	—	0	0
AI-07152 STYLET PACING	0	0	—	0	0	—	0	0	—	0	0	—	0	0
AI-07153 STYLET PACING	0	0	—	0	0	—	0	0	—	0	0	—	0	0
AI-07154 BALLOON PACING	0	0	—	0	0	—	0	0	—	0	0	—	0	0

MANSFIELD SCIENTIF	0	0	0	1408	—	0	0	0	0	18	—	0	0	78.222
ELECTRODE PACING SMX 88/06	0	0	—	1408	—	100	0	0	—	18	—	100	0	78.222
TVTS-53 VENTRI	0	0	—	1408	—	100	0	0	—	18	—	100	0	78.222
MEDTRONIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PACEMAKER ACCESSOR MRB 00/00	0	0	—	0	0	—	0	0	—	0	0	—	0	0
6700 BIPOLAR END-LEAD	0	0	—	0	0	—	0	0	—	0	0	—	0	0
OHMEDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INJECTATE SYSTEM OHO 84/07	0	0	—	0	0	—	0	0	—	0	0	—	0	0
SP5540 V-PACE LEAD	0	0	—	0	0	—	0	0	—	0	0	—	0	0

EP CATHETERS

IMS HEALTH - Hospital Supply Index	QTR/MAR/00 Non Deflect Dollars	QTR/MAR/00 Deflect Temp Control Dollars	QTR/MAR/00 Deflect Non-Temp Control Dollars	Dollars CalQtr/3/2000 (Absolute)	Dollars CalQtr/3/2000 %PPG (Absolute)	Dollars CalQtr/3/2000 %V (Absolute)	Dollars MAT/3/2000 (Absolute)	Dollars MAT/3/2000 %PPG (Absolute)	Dollars MAT/3/2000 %V (Absolute)	Units CalQtr/3/2000 (Absolute)	Units CalQtr/3/2000 %PPG (Absolute)	Units CalQtr/3/2000 %V (Absolute)	Units MAT/3/2000 (Absolute)	Units MAT/3/2000 %PPG (Absolute)	Units MAT/3/2000 %V (Absolute)	Avg Sales Price CalQtr/3/2000 (Absolute)	Avg Sales Price MAT/3/2000 (Absolute)
DIAG NON-LUMEN LEADS 1 1271	5863710	989489	6186234	15998959	13.7	100	63801312	22.3	100	56832	14.5	100	219502	13.3	100	281.513	290.664
CORDIS WEBSTER	1141981	978053	4011355	6779041	-2.9	42.4	29897532	24.8	46.5	15730	-1.6	27.7	64687	2.4	29.5	430.963	459.096
CATHETER WBD 98/04	83234	417176	2004585	2926287	80.5	43.2	11302044	159.6	38.1	4439	171.2	28.2	13318	165.3	20.6	659.222	848.829
NS7-FL-174-HS NAVI-STAR	0	0	649811	649811	41.6	22.2	3470611	228.4	30.7	465	44.4	10.5	2360	206.9	17.7	1397.443	1470.683
D610DRP10RT 6FR	0	0	545681	545681	---	18.6	984821	---	8.7	1302	---	29.3	2205	---	16.6	419.11	446.631
NS7-DL-174HS HYPER 7F	0	0	263719	263719	-18.8	9	1470193	59.8	13	189	-14.9	4.3	1008	46.1	7.6	1395.339	1458.525
NS7-JL-174-HSBI 7FR	0	0	138442	138442	---	4.7	138442	---	1.2	94	---	2.1	94	---	0.7	1472.787	1472.787
D7-08DR-002-RT DEF 7FR	0	0	135417	135417	---	4.6	339100	---	3	333	---	7.5	766	---	5.8	406.658	442.689
NS7-EL-174-HS 7FR DEFLEC	0	0	110038	110038	-16.7	3.8	795048	226.4	7	70	-11.4	1.6	517	244.7	3.9	1571.971	1537.81
D608DR002RT DEFLECT 6FR	0	0	0	102691	---	3.5	203390	---	1.8	278	---	6.3	531	---	4	369.392	383.032
D710DRP10RT DEFLECT 7FR	0	0	0	99746	---	3.4	305743	---	2.7	225	---	5.1	613	---	4.6	443.316	498.765
D7TCL252RTC 7F	0	79529	0	79529	98.7	2.7	337514	232.1	3	118	103.4	2.7	513	242	3.9	673.975	657.922
NS7-BL-174-HS NAVI-STAR	0	0	71150	71150	4.8	2.4	245775	2.7	2.2	53	32.5	1.2	161	0	1.2	1342.453	1526.553
D7TEL252RT DEFLECT 7FR	0	62056	0	62056	2.5	2.1	177413	136.5	1.6	100	3.1	2.3	285	137.5	2.1	620.56	622.502
D8BTC-DL-252-RT CURVE	0	59851	0	59851	40.8	2	100647	136.7	0.9	97	76.4	2.2	153	178.2	1.1	617.021	657.824
D7BTFL252RT DEFLECT 7FR	0	0	0	50482	253.8	1.7	98488	304.8	0.9	70	250	1.6	137	315.2	1	721.171	704.292
D5-08D-P10-RT DEFLECT 5F	0	0	0	49216	---	1.7	95647	---	0.8	98	---	2.2	187	---	1.4	502.204	511.481
NS7-CL-174-HS NAVI-STAR	0	0	48591	48591	-41.2	1.7	479298	123.3	4.2	35	-28.6	0.8	299	123.1	2.2	1388.314	1603.003
D7TDG252RT DEFLECT 7FR	0	46601	0	46601	783.4	1.6	123638	513.8	1.1	84	950	1.9	209	464.9	1.6	554.774	591.569
D8BTDL252RT DEFLECT	0	40001	0	40001	-24.8	1.4	135812	44.9	1.2	64	-16.9	1.4	205	58.9	1.5	625.016	662.498
D7BTBL252RT DEFLECT 7FR	0	31284	0	31284	504.9	1.1	49413	231.3	0.4	43	377.8	1	70	218.2	0.5	727.535	705.9
F6A-DP-282-FS DECAP 6F	29767	0	0	29767	---	1	137588	---	1.2	108	---	2.4	495	---	3.7	275.62	277.956
OF6-3X4G-010-FS ORTH 6F	24487	0	0	24487	651.1	0.8	79626	-14.5	0.7	46	666.7	1	154	-13.5	1.2	532.326	517.052
1086508S F-COURN 6FR	23674	0	0	23674	---	0.8	23674	---	0.2	183	---	4.1	183	---	1.4	129.366	129.366
D7TAL252RT	0	22659	0	22659	27.2	0.8	97423	68.8	0.9	33	32	0.7	145	76.8	1.1	686.636	671.883
D7R20P14FSDEF DEFLECT 7F	0	0	21223	21223	14.8	0.7	98475	-22.4	0.9	21	16.7	0.5	98	-22.8	0.7	1010.619	1004.847
D8BTFL252RT DEFLECT 8FR	0	20611	0	20611	-34.5	0.7	45854	-55.2	0.4	29	-37	0.7	66	-54.5	0.5	710.724	694.758
D7BTDL252RT DEFLECT 7FR	0	20061	0	20061	-48.5	0.7	212295	284.6	1.9	29	-50	0.7	298	272.5	2.2	691.759	712.399
OD7-8X2D-005-FS DEFLC 7F	0	0	0	19811	---	0.7	92510	14.3	0.8	25	---	0.6	117	6.4	0.9	792.44	790.884
D8BTF5L252RT CELSIUS 8FR	0	0	0	17086	---	0.6	17086	---	0.2	27	---	0.6	27	---	0.2	632.815	632.815
D7-T20-P15-FS HALO	0	0	16945	16945	---	0.6	137257	---	1.2	17	---	0.4	138	---	1	996.765	994.616
D7TFL252RTT DEFLECT 7FR	0	0	0	16313	---	0.6	25282	---	0.2	26	---	0.6	40	---	0.3	627.423	632.05
NS75-TFCT-252HSI NAVISTR	0	0	0	12900	---	0.4	48725	---	0.4	9	---	0.2	32	---	0.2	1433.333	1460.156
D6-06DR-002-RT	0	0	0	11771	---	0.4	29832	---	0.3	25	---	0.6	76	---	0.6	470.84	392.526
D7TBL252RTDEF 7FR	0	11676	0	11676	-77	0.4	134631	26.1	1.2	17	-77.6	0.4	208	28.4	1.6	686.941	647.264
D7T-DL-G-252RT EP 2.5	0	10100	0	10100	---	0.3	49790	---	0.4	16	---	0.4	79	---	0.6	631.25	630.253
D7T-FG-252-RT QUAD 7FR	0	10100	0	10100	---	0.3	15813	---	0.1	16	---	0.4	25	---	0.2	631.25	632.52
D7BTC-DL-252RT CELCIUS 7	0	0	0	8983	---	0.3	20718	---	0.2	12	---	0.3	30	---	0.2	748.583	690.6
D7-TC-CL-252-RT 7FR	0	0	0	8658	---	0.3	8658	---	0.1	13	---	0.3	13	---	0.1	666	666
OD7-3X4D-010-FS DEF ORTH	0	0	0	7744	-77.4	0.3	66600	94.1	0.6	12	-74.5	0.3	93	97.9	0.7	645.333	716.129
F4S-HH-252-FS FIX HEXAP	0	0	0	5540	8.6	0.2	7660	50.2	0.1	21	-19.2	0.5	30	15.4	0.2	263.81	255.333
D7TBLG252RTRT EP 2	5306	0	0	5306	---	0.2	62138	---	0.5	8	---	0.2	100	---	0.8	663.25	621.38
D7-TC-FL-252-RT 7FR	0	0	0	4163	---	0.1	4163	---	0	7	---	0.2	7	---	0.1	594.714	594.714
D6-08DR-002-RT 6FR	0	0	3568	3568	---	0.1	3568	---	0	9	---	0.2	9	---	0.1	396.444	396.444
D8BTCBL252RT DEFLECT 8FR	0	0	0	3457	-47.1	0.1	10758	64.5	0.1	4	-50	0.1	13	62.5	0.1	864.25	827.538
D6TC-DL-252-RT CELS 6F	0	2645	0	2645	---	0.1	50198	---	0.4	4	---	0.1	79	---	0.6	661.25	635.418
D6TCBL252RT CELC B CRV 6	0	0	0	2823	-83.9	0.1	14448	-11.3	0.1	4	-84	0.1	21	-16	0.2	655.75	688
D508DP10FS DEFLECT 5FR	0	0	0	108	-99.8	0	54829	-19.4	0.5	0	-100	0	105	-22.8	0.8	0	522.181
D5S-06AL-252-FS DEFLECT	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
D6TDL252RTD DEFLECT 6FR	0	0	0	0	0	0	5316	-71.5	0	0	0	0	9	-69	0.1	0	590.667
D6TEL252RT4P DEFLECT 6FR	0	0	0	0	0	0	12980	171.7	0.1	0	0	0	19	171.4	0.1	0	683.158
D7-08DR-005-FS DEF OCTAP	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
D7-08R-HIS-RT PARAH 7FR	0	0	0	0	0	0	2591	---	0	0	0	0	5	---	0	0	518.2
D7BTC-EL-252RT ECRV 7F	0	0	0	0	0	0	18327	---	0.2	0	0	0	27	---	0.2	0	678.778
D7BTC-FL-252RT FCRV 7F	0	0	0	0	0	0	24573	---	0.2	0	0	0	34	---	0.3	0	722.735
D7BTEL252RT DEFLECT 7FR	0	0	0	0	0	0	3044	---	0	0	0	0	4	---	0	0	761
D7TAL252RTT DEFLECT 7FR	0	0	0	0	0	0	6215	---	0.1	0	0	0	9	---	0.1	0	690.556
D7TC-DL-252-RT 7F	0	0	0	0	-100	0	4575	-87	0	0	-100	0	6	-87.5	0	0	762.5
D7T20232FS HALO XP 7FR	0	0	0	0	0	0	4686	---	0	0	0	0	5	---	0	0	937.2
D7T20282FA HALO 7FR	0	0	0	0	0	0	6464	---	0.1	0	0	0	7	---	0.1	0	923.429
D708DL002FS DEFLECT	0	0	0	0	0	0	2331	---	0	0	0	0	5	---	0	0	466.2
D708DL252FS DEFLECT	0	0	0	0	0	0	10079	---	0.1	0	0	0	19	---	0.1	0	530.474
F5-QD-005PS REG 5F	0	0	0	0	-100	0	6787	-40.5	0.1	0	-100	0	37	-49.3	0.3	0	183.432
F7LD-G-252-PS EP	0	0	0	0	0	0	3367	---	0	0	0	0	10	---	0.1	0	336.7
NS7-FF-174-HS NAVI	0	0	0	0	0	0	4710	---	0	0	0	0	5	---	0	0	942
NS75-TDCT-252HSI NAVISTR	0	0	0	0	0	0	33825	---	0.3	0	0	0	23	---	0.2	0	1470.652
OD7-6X2F-005-FS DEFLECT	0	0	0	0	0	0	9077	---	0.1	0	0	0	13	---	0.1	0	698.231
OD7X82D005SS DEF ORTH 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OD78X2D005FS DEFLECT 7FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0

OF6-3X4CT-10-FS 6F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
RD116416S 8FR DEFLECT	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
RS7PHS STAR 7FR	0	0	0	0	0	0	28688	-92.6	0.3	0	0	0	48	-95.7	0.4	0	597.625
1086251S EP	0	0	0	0	0	0	6096	—	0.1	0	0	0	10	—	0.1	0	609.6
1086535 FIXED CRV	0	0	0	0	0	0	313	—	0	0	0	0	5	—	0	0	62.6
109524S DEFLECT ORTHOGON	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
1097184S DEFLECT ORTHOGO	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
110004S DEFLECT 7FR	0	0	0	0	0	0	11210	—	0.1	0	0	0	24	—	0.2	0	467.083
CATHETER WBD 92/10	562151	558877	1565292	2855642	-32.1	42.1	12319393	-32.5	41.5	9107	-29.3	57.9	40896	-27.7	63.2	313.566	301.237
D6-DR-252-PS DEFLECT 6FR	0	0	365645	365645	26.8	12.8	964472	33.5	7.8	1233	70.1	13.5	3142	69.5	7.7	296.549	306.961
D7-T20-282-FS DEFLECT 7F	0	0	331752	331752	-34.5	11.6	1085384	-29.6	8.8	372	-27.5	4.1	1135	-27.2	2.8	891.806	956.285
D7-TDL-252-RT1 DEFLECT 7	0	302578	0	302578	49.7	10.6	879248	0	7.1	448	45.5	4.9	1338	-0.6	3.3	675.397	657.136
D6-DR-005-PS DEFLECT 6FR	0	0	175417	175417	14.3	6.1	785755	71.6	6.4	483	7.1	5.3	2230	72.3	5.5	363.182	352.357
D7-DL-252-PS DEFLECT 7FR	0	0	154761	154761	-40.2	5.4	730607	-55.7	5.9	324	-39.4	3.6	1543	-54.3	3.8	477.657	473.498
F6-QA-005PS FIXED 6F	145237	0	0	145237	22.1	5.1	582105	-6.2	4.7	1417	32.3	15.6	5548	3.6	13.6	102.498	104.922
D7-A-201-31-FS 7F	0	0	105914	105914	59.5	3.7	592199	27.8	4.8	107	59.7	1.2	801	29.2	1.5	989.85	985.356
F6-QA-002PS FX 6F	91280	0	0	91280	82.3	3.2	170268	-43.7	1.4	611	103.7	6.7	1391	-29.1	3.4	149.394	122.407
D7-10-DR-P10-FS DEFLECT	0	0	90035	90035	-72	3.2	325455	-72.2	2.6	233	-62.4	2.6	782	-65.5	1.9	386.416	416.183
D7-TC-DL-252-RT1 DEFLCT	0	82947	0	82947	-40.6	2.9	588491	-10.1	4.8	127	-42	1.4	891	-12.9	2.2	653.126	660.484
F5-QA-005-PS FIXED 5FR	74456	0	0	74456	17.8	2.6	161523	12.4	1.3	793	59.6	8.7	1679	31.1	4.1	93.892	96.202
D7-TC-BL-252-RT1 DEFLCT	0	59122	0	59122	109.7	2.1	184794	-49.3	1.5	91	111.6	1	266	-50.9	0.7	649.692	646.133
D7-08-DR-002-FS DEFLECT	0	0	55810	55810	-62.7	2	368788	-48.9	3	154	-53.9	1.7	893	-42.9	2.2	362.403	412.976
D7-TC-FL-252-RT1 DEFLCT	0	51342	0	51342	-46.3	1.8	188246	-59.1	1.5	73	-46.7	0.8	271	-60.1	0.7	703.315	694.635
D5-SAL-252-PS DEFLECT 5F	0	0	49204	49204	342.3	1.7	84458	93.6	0.7	93	365	1	161	96.3	0.4	529.075	524.584
D6-08-DR-002-FS DEFLECT	0	0	48845	48845	-66	1.7	133352	-65.8	1.1	234	-35.9	2.6	460	-54.7	1.1	208.739	289.896
D6-DR-010-PS DEFLEC 6FR	0	0	41750	41750	2809.4	1.5	190523	7.4	1.5	135	3275	1.5	592	3	1.4	309.259	321.829
1086-25-9S FIXED 5FR	40687	0	0	40687	-16.2	1.4	86193	-9.3	0.7	185	-1.6	2	395	-1	1	219.93	218.21
D6-10-DR-P10-FS DEFLECT	0	0	38144	38144	-86.3	1.3	570342	-38.6	4.6	75	-86.6	0.6	1186	-35.5	2.9	508.587	480.895
F6-QF-005-PS FIXED 6F	35231	0	0	35231	-76.4	1.2	382636	-41.5	3.1	302	-77	3.3	3362	-41.9	8.2	116.659	113.812
D7-EL-252PS ANGIO#21	0	0	33499	33499	544.2	1.2	153304	3.3	1.2	70	600	0.8	340	9.7	0.8	478.557	450.894
F5-ADP-282-FS FIXED 5FR	33396	0	0	33396	-39.3	1.2	168374	5.1	1.4	128	-29.7	1.4	611	10.5	1.5	280.906	275.571
D7-TC-CL-252-RT1 DEFLCT	0	30420	0	30420	-20.8	1.1	107423	-53.6	0.9	48	-17.2	0.5	166	-53.6	0.4	633.75	647.127
D6S08DRPRYFS 6FR 8P DEF	0	0	0	27944	-48.9	1	59496	-76.1	0.5	75	-41.4	0.8	160	-71.7	0.4	372.587	371.85
F6-QF-010PS FIXED 6FR	27865	0	0	27865	-80	1	417545	-31.6	3.4	194	-84.7	2.1	3616	-33.6	8.8	143.834	115.408
F5-ADP-P10-FS FIXED 5FR	27759	0	0	27759	59.5	1	78816	11.3	0.6	118	87.3	1.3	314	32.5	0.8	235.246	250.369
D7-DR-005-PS DEFLECT 7FR	0	0	24460	24460	-47.2	0.9	228568	-14.2	1.9	52	-52.3	0.6	526	-15	1.3	470.385	434.54
F7-LDG-252FS FIXED 7F	24427	0	0	24427	161	0.9	98026	119.7	0.8	69	155.6	0.8	273	125.6	0.7	354.014	351.744
F5-QF-005PS FIXED 5FR	23233	0	0	23233	-24.3	0.8	37500	-64.5	0.3	125	-25.1	1.4	226	-57.8	0.6	185.864	165.929
F5-ADP-282-PS FIXED 5FR	0	0	0	18758	38.2	0.7	24497	80.4	0.2	59	37.2	0.6	77	79.1	0.2	317.932	318.143
D8-BR-BL-252-PS 8FR	0	0	0	18540	86	0.6	29424	4.1	0.2	31	82.4	0.3	49	2.1	0.1	598.065	600.49
F8-DF-002-FS FIXED 8F	0	0	0	17485	240.8	0.6	30397	32.7	0.2	55	223.5	0.6	108	44	0.3	317.909	281.454
D7-BL-252-PS DEFLECT 7FR	0	0	0	16748	-54.9	0.6	30534	-64.6	0.2	32	-57.3	0.4	59	-66.1	0.1	523.375	517.525
D7-TFL-252-RT1 DEFLECT 7	0	15359	0	15359	-87.2	0.5	201901	-60.7	1.6	22	-87.4	0.2	304	-60.7	0.7	698.136	664.146
F5-QA-252-PS FIXED 5FR	14297	0	0	14297	32.3	0.5	37295	18.6	0.3	61	-11.6	0.7	200	11.1	0.5	234.377	186.475
D7-08-RHISF DEFLECT 7FR	0	0	14286	14286	-30	0.5	59314	83.8	0.5	26	-29.7	0.3	106	86.2	0.3	549.462	549.204
D7-CL-252PS ANGIO #21	0	0	13661	13661	-80	0.5	65424	-51.6	0.5	28	-81.2	0.3	139	-52.1	0.3	487.893	470.676
D7-DL-005PS 7FR 4POLE	0	0	12407	12407	-11.6	0.4	83840	-38.4	0.7	26	-13.3	0.3	177	-38.3	0.4	477.192	473.672
D7-TC-EL-252RT CELCIUS 7	0	12280	0	12280	—	0.4	59974	—	0.5	17	—	0.2	86	—	0.2	722.353	697.372
F6-QD-005-PS FIXED 6F	11116	0	0	11116	111.9	0.4	46246	-42	0.4	47	-42	0.5	236	-64.9	0.6	236.511	195.958
F5-QF-010-PS COURNAND 5F	9480	0	0	9480	-67.7	0.3	82261	-37.3	0.7	70	-76.4	0.8	710	-44.3	1.7	135.429	115.861
F6-QE-002TS FIXED 6F	0	0	0	9127	—	0.3	16917	—	0.1	39	—	0.4	72	—	0.2	234.026	234.958
D7-DG-252-PS DEFLECT 7FR	0	0	0	6356	95	0.2	27968	36.5	0.2	13	116.7	0.1	57	46.2	0.1	488.923	490.667
D7-BL-252-PO DEFLECT 7FR	0	0	0	5576	—	0.2	5576	—	0	8	—	0.1	8	—	0	697	697
F6-DF-252FS FIXED 6F	0	0	0	5550	183.7	0.2	34458	468.1	0.3	21	250	0.2	123	547.4	0.3	264.286	280.146
F6-OB-272-TS FIXED 6F	0	0	0	5160	-13.7	0.2	28184	-79.1	0.2	26	-13.3	0.3	141	-78.8	0.3	198.462	199.887
D7-FL-252-PS DEFLECT 7FR	0	0	0	5147	-62	0.2	56370	-59	0.5	11	-57.7	0.1	121	-54.5	0.3	467.909	465.868
D6-10-DR-002-FS DEFLECT	0	0	5110	5110	201.3	0.2	23164	1265.6	0.2	17	183.3	0.2	72	1100	0.2	300.588	321.722
D7TC-DG-252-RT 7F	0	4829	0	4829	-41.3	0.2	41209	400.8	0.3	7	-46.2	0.1	58	346.2	0.1	689.857	710.5
D7-DR-252PS ANGIO #21	0	0	4592	4592	-79.5	0.2	52525	-57.4	0.4	17	-67.3	0.2	139	-52.1	0.3	270.118	377.878
D7-EG-252PS ANGIO #21	0	0	0	4237	—	0.1	4237	-63.3	0	9	—	0.1	9	-57.1	0	470.778	470.778
D7FG252PS DEFLECT 7FR	0	0	0	4237	30	0.1	15682	-18.8	0.1	9	50	0.1	31	-22.5	0.1	470.778	505.871
D7-PSL-252-PS DEFLECT 7F	0	0	0	4077	-71.3	0.1	13616	-25.7	0.1	7	-70.8	0.1	24	-22.6	0.1	582.429	567.333
F6-QN-002PS FIXED	0	0	0	4037	—	0.1	4037	—	0	17	—	0.2	17	—	0	237.471	237.471
F6-HF-002TS FX 6F	3687	0	0	3687	—	0.1	17427	—	0.1	14	—	0.2	70	—	0.2	263.357	248.957
D7-10-DR-002-F2MM DEF 7F	0	0	0	3363	—	0.1	3363	—	0	9	—	0.1	9	—	0	373.667	373.667
D7-CG-252PS ANGIO#21	0	0	0	2997	-51.6	0.1	8021	-78.7	0.1	7	-41.7	0.1	17	-76.4	0	428.143	471.524
D7-TC-AL-252-RT1 DEFLCT	0	0	0	2899	-94.3	0.1	23358	-89.3	0.2	4	-94.8	0	34	-89.9	0.1	724.75	687
D7-BG252PS 4FR 4POLE	0	0	0	2119	—	0.1	5936	368.1	0	4	—	0	13	—	0	529.75	456.815
F6-QF-002-PS FIXED 6F	0	0	0	1987	-20.1	0.1	3146	-94.4	0	13	8.3	0.1	18	-93.8	0	152.846	174.778
1078-41-S DEFLECT 5FR	0	0	0	1739	-47.2	0.1	10750	-54.1	0.1	4	-50	0	31	-52.3	0.1	434.75	348.774
F8-HG-005TS 5MM 6FR	0	0	0	1239	—	0	1239	—	0	8	—	0.1	8	—	0	154.875	154.875
D5-S-270-LB-02-PS 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D6-AG-252-PS DEFLECT 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D6-AL-252-PS DEFLECT 6FR	0	0	0	0	0	0	6308	-66.5	0.1	0	0	0	13	-68.3	0	0	485.231

D6-DL-252-PS DEFLECT 6FR	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
D6-S-270-L-252-PS 6FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D6-06-DR-002-FS DEFLECT	0	0	0	0	0	0	26970	-23.7	0.2	0	0	0	68	-17.1	0.2	0	396.618
D6-06-DR-002-TS DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D6-06-DR-010-FO DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D6-06-DR-252-FS DEFLCT 6	0	0	0	0	0	0	57158	—	0.5	0	0	0	163	—	0.4	0	350.663
D6-06-DRP-10-F15 DEFLCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D6-10-DR-P10-TS DEFLECT	0	0	0	0	-100	0	2714	-86.5	0	0	-100	0	5	-85.3	0	0	542.8
D6TCEG252RT6F TC 4P E LG	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D6D6DR252FS DEF 6F 8P D	0	0	0	0	0	0	31441	—	0.3	0	0	0	97	—	0.2	0	324.134
D7-AG-252PS ANGIO #21	0	0	0	0	0	0	2165	13.8	0	0	0	0	5	25	0	0	433
D7-AL-252-PO DEFLECT 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-AL-252-PS DEFLECT 7FR	0	0	0	0	-100	0	9153	-83.3	0.1	0	-100	0	19	-82.7	0	0	481.737
D7-CL-252-PO DEFLECT 7FR	0	0	0	0	0	0	479	—	0	0	0	0	0	0	0	0	0
D7-DG-252-PO DEFLECT 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-DL-005-PO DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-DL-252-PO DEFLECT 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-DR-010-PS 10FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-EG-252-PO 7FR 4 POLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-EL-252-PO DEFLECT 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-E06-RPORM 7FR	0	0	0	0	0	0	22550	-49.7	0.2	0	0	0	45	-52.1	0.1	0	501.111
D7-FL-252-PO DEFLECT 7FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D7-GS-252PS ANGIO #21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-TC-EL-252-RT1 DEFLCT	0	0	0	0	-100	0	49842	-56.8	0.4	0	-100	0	75	-58.6	0.2	0	664.56
D7-TC-FG-252-RT1 DEFLCT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-TC-FL-252-TS DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-06-BL-002-FO DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-06-DL-002-FS DEFLECT	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
D7-06-DR-002-T DEFLECT 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-06-DR-002-TS DEFLECT	0	0	0	0	0	0	5398	11.1	0	0	0	0	11	10	0	0	490.545
D7-06-FL-252-FS DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-08-DL-002-FS DEFLECT	0	0	0	0	-100	0	13195	317.4	0.1	0	0	0	22	450	0.1	0	599.773
D7-08-DL-005-FS DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-270-RG-252-PS 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-270-RL-252-LE 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7-270-RL-252-PS 7FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D7-720-282-FF HALO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7BT-EL-252-RT 7F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
D7TC-CG-252-RT 7F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D8-BR-BG-252-PS 8FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D8-BR-DG-252-PS BRD 8FR	0	0	0	0	0	0	17358	—	0.1	0	0	0	29	—	0.1	0	598.552
D8-BR-DL-252-PS DEFL 8FR	0	0	0	0	-100	0	19152	-67.7	0.2	0	-100	0	32	-68.6	0.1	0	598.5
D8-BR-FG-252-PS DEFLECT	0	0	0	0	-100	0	7944	-93.6	0.1	0	-100	0	13	-93.7	0	0	611.077
D8-BR-FL-252-PS DEFLECT	0	0	0	0	-100	0	5580	-92.2	0	0	-100	0	10	-92.1	0	0	558
D8-CG-252-PS DEFLECT 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D8-CL-252-PS DEFLECT 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D8-CL-252PO DEFLECT 8FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D8-DG-252-PS DEFLECT 8F	0	0	0	0	-100	0	0	-100	0	0	0	0	0	0	0	0	0
D8-DL-252-PS DEFLE T 8F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D8-DL-252PO DEFL FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D8-FG-252-PS DEFL 8F	0	0	0	0	0	0	0	-100	0	0	0	0	0	0	0	0	0
D8-FL-252-PS DEFLE 8F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
D8BCL252PS DEFLEC 8FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D8BDL252PS DEF 8F	0	0	0	0	0	0	617	—	0	0	0	0	0	0	0	0	0
F4S-HH-252-HS FIXED 4FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5-QA-252-MS FIXED 5FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5-QD-252-TS FIXED 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5-QF-005TS FIXED 5F	0	0	0	0	0	0	6756	—	0.1	0	0	0	36	—	0.1	0	187.667
F5-QF-252-TS FIXED 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5-QL-005-PS FIXED 5F	0	0	0	0	-100	0	645	-99.3	0	0	-100	0	4	-99.2	0	0	161.25
F5-QL-010TS FIX 5P	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
F5-QN-005PS FIXED 5FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5-SHA-252-MS FIXED 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F5-SQA-252-MS FIXED 5FR	0	0	0	0	0	0	9861	-7.7	0.1	0	0	0	72	56.5	0.2	0	136.958
F5-SQF-005-MS FIXED 5F	0	0	0	0	0	0	1060	-3.2	0	0	0	0	5	0	0	0	212
F6-DF-252TS FIXED 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-DG-252FS FIXED 6F	0	0	0	0	0	0	1717	3.7	0	0	0	0	5	-28.6	0	0	343.4
F6-HD-002TS FX 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-HF-005FS FIXED 6F	0	0	0	0	0	0	5742	-46.9	0	0	0	0	38	-33.3	0.1	0	151.105
F6-HG-002TS FIXED 6F	0	0	0	0	-100	0	887	-4	0	0	-100	0	6	0	0	0	147.833
F6-HG-252TS FX 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QA-002-TS FIXED 6FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
F6-QA-010PS FIXED 6FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
F6-QA-252-PS FIXED 6F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0

F6-QC-002PS NX PLUG 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QD-002-TS FIXED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QD-002PS FX 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QF-002-TS FIXED 6F	0	0	0	0	0	0	21645	—	0.2	0	0	0	120	—	0.3	0	180.375
F6-QF-005-FS FIXED 6FR	0	0	0	0	0	0	8579	—	0.1	0	0	0	60	—	0.1	0	142.983
F6-QF-005-PS FIXED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QF-010-TS FIXED 6F	0	0	0	0	-100	0	93343	-62.3	0.8	0	-100	0	625	-65	1.5	0	149.349
F6-QF-010TS FIXED 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QG-002PS FX 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QG-010PS FIXED 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QK-002-TS FIXED 6FR	0	0	0	0	-100	0	166665	-46	1.4	0	-100	0	1112	-46	2.7	0	149.879
F6-QL-005-PS FIXED 6F	0	0	0	0	-100	0	30165	-25.8	0.2	0	-100	0	275	-9.8	0.7	0	109.691
F6-QL-010-TS FIXED	0	0	0	0	-100	0	2132	4.3	0	0	-100	0	10	25	0	0	213.2
F6-QL-010PS LUNE 4F	0	0	0	0	-100	0	43019	-58.6	0.3	0	-100	0	331	-81.9	0.8	0	129.967
F6-QM-002PS FIXED 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-QN-005PS FIXED 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F6-SH-252-MS FIXED 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F7-LDA-363TO FIXED 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F7-LDA-363TSL FIXED 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F7-LDG-005FO FIXED 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F7-LDG-005FS FIXED 7F	0	0	0	0	0	0	9220	-10.9	0.1	0	0	0	25	-10.7	0.1	0	368.8
HD-720-P-10FS HALO 7F	0	0	0	0	0	0	13930	-86.9	0.1	0	0	0	14	-87.4	0	0	995
HD-820-P10-MS HALO 8FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS7FL174HS DF 7F DIAG 5M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS8BLB02CS NAUSTAR 8FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
NS8CLB02CS NAUSTAR 8FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
NS8DLB02CSDEF DEFLECT 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NS8FLB02CSDEF DEFLECT 8F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OD73X4D010MS DER 7FR	0	0	0	0	0	0	76024	—	0.6	0	0	0	108	—	0.3	0	717.208
RS8DRB02CS NAUSTAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1079-47-S DEFLECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF-STAR WBD 98/12	477846	0	0	477846	74.5	7	2334139	752.5	7.9	1352	197.8	8.6	6583	1350	10.2	353.436	354.571
XRP6-H EXT REF PATCH	379598	0	0	379598	202.7	79.4	1562616	1146.1	66.9	1072	270.9	79.3	4509	1460.2	68.5	354.103	348.555
XRP6N-H STAR W/PATCH	98248	0	0	98248	-33.8	20.6	771523	419.9	33.1	280	69.7	20.7	2074	1157	31.5	350.888	371.998
NOGA-STAR CATHETER WBD 99/03	0	0	441478	441478	-44.1	6.5	3493108	342.6	11.8	343	-44.5	2.2	2550	312.6	3.9	1287.108	1369.846
1207-07S D-CURVE 7F	0	0	330904	330904	-19.2	75	1991447	386.4	57	263	-16.8	76.7	1490	359.9	58.4	1258.19	1336.542
1207-05S B-CURVE 7F	0	0	60144	60144	-78	13.6	533324	95.2	15.3	41	-80.4	12	408	95.2	16	1466.927	1307.167
1207-08S	0	0	30606	30606	—	6.9	150543	—	4.3	22	—	6.4	115	—	4.5	1391.182	1309.07
1207-08S C-CURVE 7F	0	0	19824	19824	-81.4	4.5	400514	275.3	11.5	17	-80	5	327	284.7	12.8	1166.116	1224.813
1209-09S B-CURVE 9F	0	0	0	0	0	0	62960	—	1.8	0	0	0	32	—	1.3	0	1967.5
1209-10S C CURVE 9F	0	0	0	0	0	0	72340	—	2.1	0	0	0	37	—	1.5	0	1955.135
1209-11S D CURVE 9F	0	0	0	0	0	0	135440	—	3.9	0	0	0	68	—	2.7	0	1991.765
1209-12S F CURVE	0	0	0	0	0	0	146540	—	4.2	0	0	0	73	—	2.9	0	2007.397
CATHETER WBD 98/09	18750	0	0	77788	-10.4	1.1	248848	118.9	0.8	489	27	3.1	1340	163.8	2.1	159.076	185.707
D6BT-EL-252RT 6F	0	0	0	17708	132.2	22.8	24346	219.2	9.8	27	170	5.5	37	270	2.8	655.778	658
F6-QF-252-PS COUR 6FR	0	0	0	15781	—	20.3	25475	—	10.2	156	—	31.9	247	—	18.4	101.16	103.138
F6QD010PS QUAD 6FR	14558	0	0	14558	—	18.7	14558	—	5.9	124	—	25.4	124	—	9.3	117.403	117.403
F6-HA-002-FS HEX 6FR	0	0	0	10170	—	13.1	12024	—	4.8	78	—	16	92	—	6.9	130.385	130.696
F6-HF-005-TS FIXED CRV	0	0	0	6635	—	8.5	13530	—	5.4	26	—	5.3	53	—	4	255.192	255.283
F5-QA-002PS FIXED	4192	0	0	4192	-47.2	5.4	36085	35.2	14.5	18	-47.1	3.7	158	35	11.8	232.889	228.386
F65QA005PS QUAD 6/5FR	0	0	0	3714	—	4.8	16436	—	6.6	35	—	7.2	131	—	9.6	106.114	125.466
F6-HF-010-TS FX HEXAP 6F	0	0	0	3425	33.9	4.4	11741	359	4.7	13	30	2.7	54	440	4	263.462	217.426
F6-HA-002-TS HEX 6FR	0	0	0	1607	—	2.1	7991	—	3.2	12	—	2.5	48	—	3.6	133.917	166.479
F5-SHA-252TS FIXED	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
F5-SQF-005FS FIXED 5F	0	0	0	0	-100	0	80150	33.8	32.2	0	-100	0	349	32.7	26	0	229.656
F5S-QA-252-FS FX QUAD 5F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
F6-DF-005F6 DECAP 6FR	0	0	0	0	0	0	2424	—	1	0	0	0	14	—	1	0	173.143
F6-HF-002-FS FX 6FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
F6-QA-005-TS FX QUAD 6F	0	0	0	0	-100	0	4088	-39.8	1.6	0	-100	0	33	-40	2.5	0	123.879
CATHETER WBD 99/03	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
D5-08DR-PFS OCTOPO 5F	0	0	0	0	-100	—	0	-100	—	0	-100	—	0	-100	—	0	0
DAIG CORP	2188831	0	1452540	4787247	57.9	29.9	16999535	48.7	26.8	17779	21.9	31.3	70962	44.7	32.3	269.264	239.558
PACING CATH DAI 90/10	2188831	0	1452540	4787247	57.9	100	16999535	48.7	100	17779	21.9	100	70962	44.7	100	269.264	239.558
401904 EP LV 7F	0	0	714701	714701	95.4	14.9	2488390	36.9	14.6	724	99.4	4.1	2507	37.6	3.5	987.156	992.577
401443 EP QUAD 5MM 5FR	394390	0	0	394390	-13.2	8.2	1486938	10.7	8.7	3224	18.3	18.1	11151	45.5	15.7	122.329	133.346
401430 EQ QUAD 5MM 6F	249435	0	0	249435	55.9	5.2	948431	12.7	5.6	2089	61.3	11.6	7712	20.8	10.9	120.556	122.722
402152 XLS LG	0	0	0	240489	—	5	240489	—	1.4	353	—	2	353	—	0.5	681.272	681.272
401381 CSL 6F	205160	0	0	205160	108.8	4.3	803382	65.8	3.5	548	115.7	3.1	1565	67	2.2	374.38	385.548
401575 EP LVW 2MM 6F	0	0	195711	195711	87.2	4.1	700469	53.5	4.1	419	81.4	2.4	1541	70.7	2.2	467.091	454.555
401918 EP LV2/20/95CM 7F	0	0	185698	185698	627.2	3.9	794472	3011.1	4.7	159	657.1	0.9	668	3081	0.9	1167.912	1189.329
402150 XLS LG	0	0	0	169644	—	3.5	169644	—	1	253	—	1.4	253	—	0.4	670.53	670.53
401441 EP QUAD 5MM 5FR	156210	0	0	156210	-23.2	3.3	782014	5.6	4.6	1287	-28.6	7.2	6234	7.8	6.8	121.375	125.443
401261 2-5-2 6F JOSEPHSO	150008	0	0	150008	84.5	3.1	600440	40.2	3.5	1049	102.5	5.9	3817	36.7	5.4	143.001	157.307
402149 XLS MED	0	0	0	147836	—	3.1	147836	—	0.9	223	—	1.3	223	—	0.3	662.942	662.942

402151 XLS MED	0	0	0	147403	—	3.1	147403	—	0.9	223	—	1.3	223	—	0.3	661	661
401860 QUAD C 5 FR	0	0	0	123671	—	2.6	123671	—	0.7	848	—	4.8	848	—	1.2	145.838	145.838
401130 EP DEC 2/8 65CM	113029	0	0	113029	56	2.4	332379	44.9	2	273	52.5	1.5	806	42.4	1.1	414.026	412.381
401442 EP QUAD 5MM 6FR	113021	0	0	113021	8.1	2.4	430249	68.9	2.5	906	26	5.1	3137	58.9	4.4	124.747	137.153
401227 5MM 6F JOSEPHSON	105777	0	0	105777	5	2.2	393925	12.7	2.3	771	15.9	4.3	2608	13.3	3.7	137.195	151.045
401132 DECAPOLAR W/LUM	100652	0	0	100652	-6.9	2.1	451417	98.7	2.7	256	-5.2	1.4	1136	103.2	1.6	393.172	396.676
401926 DEC 2/8 6FR	0	0	85987	85987	—	1.8	163333	—	1	109	—	0.6	214	—	0.3	788.872	763.238
401306 2/5 120CM 6F	81783	0	0	81783	69.8	1.7	279259	68.4	1.6	436	71.7	2.5	1490	76.5	2.1	187.576	187.422
401914 DUO-DECAPOLAR	0	0	80175	80175	—	1.7	80175	—	0.5	80	—	0.4	80	—	0.1	1002.188	1002.188
401353 EP 2/8/5 6F	73325	0	0	73325	-41	1.5	333735	-41.2	2	182	-43.3	1	839	-42.7	1.2	402.885	397.777
402153 EPTC STEERABLE 7F	0	0	0	68388	—	1.4	102112	—	0.6	105	—	0.6	153	—	0.2	651.314	667.399
401392 EP DECAP CSL 6F	58951	0	0	58951	78.8	1.2	203643	1.9	1.2	154	85.5	0.9	539	6.5	0.8	382.799	377.816
401433 EP QUAD 10X120 5F	55235	0	0	55235	122.4	1.2	224607	378	1.3	325	261.1	1.8	1024	462.6	1.4	169.954	219.343
401905 EP LV STR	0	0	50024	50024	3.5	1	177457	-58.7	1	52	6.1	0.3	180	-58.2	0.3	962	985.872
401577 EP LVW QD 4MM 7F	0	0	44906	44906	608.4	0.9	112749	425.9	0.7	118	686.7	0.7	290	517	0.4	380.559	388.79
401600 STEERABLE QUAD 6F	0	0	41511	41511	73.2	0.9	160910	428.4	0.9	90	40.6	0.5	336	325.3	0.5	461.233	478.699
401282 JSN 6F	41122	0	0	41122	-5.8	0.9	177588	7	1	180	-20.4	1	948	2.9	1.3	228.456	187.329
401581 EP LVW OCT 7F	0	0	0	41095	29	0.9	341626	133.8	2	70	27.3	0.4	553	133.3	0.8	587.071	617.769
401275 HEXAPOLAR 6F 2MM	31295	0	0	31295	63.4	0.7	49050	-27.5	0.3	120	15.4	0.7	194	-47.1	0.3	260.792	252.835
401226 5MM 6F COURNAND	31109	0	0	31109	-78.9	0.6	277451	-15.7	1.6	201	-85	1.1	2235	-22.2	3.1	154.771	124.139
401260 2-5-2 6F COURNAND	28492	0	0	28492	-44.4	0.6	120044	-43.3	0.7	203	-52.6	1.1	967	-37.1	1.4	140.355	124.141
401434 JSN QUAD SUPRM	0	0	0	25220	—	0.5	49725	—	0.3	194	—	1.1	382	—	0.5	130	130.17
401389 ICTA 120CN	0	0	0	21860	—	0.5	21860	—	0.1	55	—	0.3	55	—	0.1	397.455	397.455
401357 JSN-1 EP 5MM 6F	21360	0	0	21360	117.8	0.4	115734	258.2	0.7	153	125	0.9	788	277	1.1	139.608	146.871
401586 EP LV STR 115CM	0	0	0	20518	—	0.4	34560	346.2	0.2	50	—	0.3	83	418.8	0.1	410.36	416.386
401400 CSL 6F	0	0	0	20416	—	0.4	35752	72	0.2	51	—	0.3	90	69.8	0.1	400.314	397.244
401222 EP QUAD 5MM	18968	0	0	18968	-54.3	0.4	84528	57.3	0.5	164	-31.4	0.9	613	72.2	0.9	115.659	137.892
401305 2/5 120CM 6F COUR	18637	0	0	18637	23.4	0.4	88607	256.8	0.5	89	25.5	0.4	352	304.6	0.5	270.101	251.724
401915 EP LVW 115CM	0	0	18462	18462	—	0.4	137835	—	0.8	36	—	0.2	287	—	0.4	512.833	480.261
401223 EP QUAD 5MM 5F	18259	0	0	18259	-69.5	0.4	123545	4.3	0.7	78	-77.1	0.4	645	3.4	0.9	234.09	191.543
402146 LG SWEEP	0	0	0	17725	—	0.4	17725	—	0.1	28	—	0.2	28	—	0	633.036	633.036
402147 ST MED CURL	0	0	0	17725	—	0.4	17725	—	0.1	28	—	0.2	28	—	0	633.036	633.036
402148 ST REG CURL	0	0	0	17725	—	0.4	17725	—	0.1	28	—	0.2	28	—	0	633.036	633.036
402156 LVW QUAD XLS	0	0	0	17545	—	0.4	17545	—	0.1	26	—	0.1	26	—	0	674.808	674.808
401281 HEXAPOLAR C/55MM	17484	0	0	17484	-32.7	0.4	78358	32.6	0.4	73	-32.4	0.4	331	32.9	0.5	239.507	230.689
401276 HEXAPOLAR 6F	17150	0	0	17150	-5.2	0.4	55735	3.7	0.3	73	-29.1	0.4	292	-4.6	0.4	234.932	190.873
401863 DECAPOLAR CSL 5FR	16520	0	0	16520	-52.9	0.3	110830	124.6	0.7	41	-53.9	0.2	283	126.4	0.4	402.927	391.625
401474 QUAD COURN 5F	14954	0	0	14954	-5.4	0.3	103830	158.1	0.6	103	35.5	0.6	770	208.8	1.1	145.184	134.844
401582 EP LVW DEC 7F	0	0	13538	13538	-31.8	0.3	159889	-12.8	0.9	21	-34.4	0.1	314	-17.8	0.4	644.667	509.201
401211 10MM 6F JOSEPHSON	11746	0	0	11746	-57.7	0.2	132249	376	0.8	38	-58.2	0.2	433	375.8	0.6	309.105	305.425
401311 2/2 120CM COURNAN	11655	0	0	11655	38	0.2	41116	-62	0.2	67	55.8	0.4	216	-57.9	0.3	173.955	190.352
402132 LVW QUAD 7FR	0	0	11453	11453	—	0.2	18065	—	0.1	17	—	0.1	26	—	0	673.706	694.808
401448 EP QUAD 2-5-2 5F	11008	0	0	11008	-91.5	0.2	1118607	264.1	6.6	96	-86.7	0.5	7528	340.7	10.6	114.667	148.593
401137 EP DEC 5/5 65CM	0	0	0	9587	—	0.2	65693	-60.4	0.4	23	—	0.1	159	-60.6	0.2	416.826	413.164
401603 EPS QUAD LVW/MED	0	0	0	8746	23.5	0.2	29567	-44.3	0.2	25	108.3	0.1	61	-33.7	0.1	349.84	484.705
401444 EP QUAD 5MM 5F	0	0	0	8650	354.3	0.2	14861	-14.2	0.1	28	180	0.2	86	-32.7	0.1	308.929	225.47
402155 LVW QUAD XLS	0	0	0	8063	—	0.2	8063	—	0	13	—	0.1	13	—	0	620.231	620.231
401475 QUAD 6F	0	0	0	7932	—	0.2	20682	263.5	0.1	67	—	0.4	169	238	0.2	118.388	122.379
401576 QUAD 7F	0	0	7510	7510	344.9	0.2	23036	1264.8	0.1	22	450	0.1	52	1200	0.1	341.364	443.038
401864 EP DEC 2/8/65CM	5352	0	0	5352	—	0.1	47296	—	0.3	13	—	0.1	124	—	0.2	411.692	381.435
401306 2/5 65CM COURNAND	5197	0	0	5197	30.1	0.1	19314	180.3	0.1	17	41.7	0.1	64	204.8	0.1	305.706	301.781
401878 HEX JSN 5FR	4145	0	0	4145	—	0.1	13157	—	0.1	12	—	0.1	39	—	0.1	345.417	337.359
401435 QUAD JSN 10X120 5	3277	0	0	3277	103.8	0.1	22987	160.8	0.1	26	225	0.1	153	292.3	0.2	126.038	150.111
402135 LVW QUAD 7FR	0	0	0	3118	—	0.1	3118	—	0	4	—	0	4	—	0	779.5	779.5
401587 EP LV STR 115CM	0	0	2864	2864	—	0.1	27724	438.1	0.2	7	—	0	65	622.2	0.1	409.143	426.523
401307 2/5 120CM 6F DAMA	2340	0	0	2340	-44	0	28528	-44.5	0.2	7	-46.2	0	134	-34.6	0.2	334.286	212.896
401445 EP QUAD 5MM 6F	0	0	0	1859	172.2	0	11337	141.4	0.1	8	33.3	0	46	70.4	0.1	232.375	246.457
401133 EP DEC 5/5/120	1785	0	0	1785	-96.7	0	60901	-48.1	0.4	4	-97.2	0	152	-48.5	0.2	446.25	400.664
401872 HEXAPOLAR	0	0	0	661	—	0	7829	—	0	4	—	0	50	—	0.1	165.25	156.58
401135 EP DEC 5/5 120CM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401136 DECAPOLAR 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401138 EP DEC 5/5/65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401206 10MM COURN 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401210 10MM 6F COURNAND	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401212 DAO 10CMX6F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
401224 EP QUAD 5MM 5F	0	0	0	0	0	0	2022	—	0	0	0	0	7	—	0	0	288.857
401225 EP QUAD	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401228 6F DAMATO	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401234 EP LVW 115CM	0	0	0	0	0	0	8462	—	0	0	0	0	30	—	0	0	282.067
401262 2-5-2 6F DAMATO	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401271 JSN CRV 6F	0	0	0	0	0	0	3203	—	0	0	0	0	12	—	0	0	266.917
401272 2/5MM 120CM	0	0	0	0	0	0	6630	—	0	0	0	0	22	—	0	0	301.364
401273 JSN 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401277 HEXAPOLAR 6F	0	0	0	0	-100	0	7711	-60	0	0	-100	0	44	-83.6	0.1	0	175.25

401283 HEXAPOLAR 6F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
401293 OCTAPOLAR 6F	0	0	0	0	0	0	3334	—	0	0	0	0	9	—	0	0	370.444
401294 OCTAPOLAR 6F	0	0	0	0	0	0	2191	—	0	0	0	0	13	—	0	0	168.538
401298 EP OCT 2/2/6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401299 OCT 6F 120CM	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
401300 JSN OCT 6F	0	0	0	0	0	0	4389	-20.4	0	0	0	0	25	-21.9	0	0	175.56
401309 2/5 65CM 6F	0	0	0	0	0	0	11603	35	0.1	0	0	0	35	29.6	0	0	331.514
401310 2/5 65CM DAMATO	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
401312 2/2 120CM JOSEPHS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401313 2/2 120 CM DAMATO	0	0	0	0	0	0	40402	—	0.2	0	0	0	154	—	0.2	0	262.351
401320 JSN EP HEX 6F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401329 QUADRIPOLAR 6F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401354 EP QUAD 10MM 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401355 10MM 6F QUAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401356 EP QUAD 5MM 6F	0	0	0	0	-100	0	2692	-72.6	0	0	-100	0	21	-51.2	0	0	128.19
401360 HEXAPOLAR 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401362 HEXAPOLAR 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401379 CSL HEX 6F	0	0	0	0	0	0	7038	-31.8	0	0	0	0	18	-30.8	0	0	391
401380 EP OCT 2/5/1	0	0	0	0	-100	0	8475	-61.3	0	0	-100	0	21	-61.8	0	0	403.571
401382 EP QUAD 5MM 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401383 EP QUAD 5MM 6F	0	0	0	0	0	0	22798	—	0.1	0	0	0	99	—	0.1	0	230.283
401385 HEXAPOLAR 6F CSL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401388 OCTAPOLAR 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401391 EP HEX 90CM 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401393 DECAPOLAR CSL 6F	0	0	0	0	0	0	2412	-50.2	0	0	0	0	8	-50	0	0	402
401399 DECAPOLAR CSL 6F	0	0	0	0	-100	0	18872	-59.9	0.1	0	-100	0	47	-60.8	0.1	0	401.532
401401 EP QUAD CRD 10X6F	0	0	0	0	-100	0	15956	-77.2	0.1	0	-100	0	97	-77.1	0.1	0	164.495
401436 JSN QUAD 6FX10MM	0	0	0	0	0	0	3956	—	0	0	0	0	28	—	0	0	141.286
401449 EPS QUAD 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401451 EPS QUAD 6F	0	0	0	0	0	0	6654	-72.7	0	0	0	0	32	-61.9	0	0	207.938
401453 QUAD 6F SUPREME	0	0	0	0	0	0	9772	5682.2	0.1	0	0	0	32	—	0	0	305.375
401528 JSN 5MM	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401534 QUADRIPOLAR 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
401578 EP LVW STR 4MM	0	0	0	0	-100	0	42015	379.7	0.2	0	-100	0	100	354.5	0.1	0	420.15
401579 EP LVW STR 2MM	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401580 LVW HEX 2MMX7F	0	0	0	0	-100	0	30673	0.9	0.2	0	-100	0	88	-13.9	0.1	0	451.074
401584 EP LV 85CM	0	0	0	0	0	0	7618	97.7	0	0	0	0	24	166.7	0	0	317.333
401588 EP LV STR 115CM	0	0	0	0	0	0	14219	37.2	0.1	0	0	0	31	72.2	0	0	458.677
401865 DECAPOLAR CSL 120	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
401873 HEXAPOLAR	0	0	0	0	0	0	1587	—	0	0	0	0	5	—	0	0	317.4
401877 EP HEXAP 6FR	0	0	0	0	0	0	35295	—	0.2	0	0	0	107	—	0.2	0	329.86
401923 LVW DEC 6FR	0	0	0	0	0	0	33969	—	0.2	0	0	0	72	—	0.1	0	471.792
402133 EPTC STEERABLE 7F	0	0	0	0	0	0	3321	—	0	0	0	0	5	—	0	0	664.2
402134 EPTC STEERABLE 7F	0	0	0	0	0	0	8726	—	0.1	0	0	0	14	—	0	0	623.286
402136 LVW QUAD 7FR	0	0	0	0	0	0	6612	—	0	0	0	0	9	—	0	0	734.667
BARD ELECTROPHYSIO	1247908	0	150859	2117066	12	13.2	7762165	-1.5	12.2	11734	16.2	20.6	42156	-3.7	19.2	180.422	184.13
ELECTRODES PACING BLP 00/00	828760	0	150859	1264477	-17.8	59.7	5571858	-7.3	71.8	6504	-12	55.4	27127	-8.3	64.3	194.415	205.399
200624 QUADPOLAR HUP	261343	0	0	261343	-21.1	20.7	1220254	-6.2	21.9	1417	0.4	21.8	6285	-0.4	23.2	184.434	194.153
CUSTOM	0	0	0	179351	28.4	14.2	644133	-13	11.6	633	5	9.7	2307	-24.5	8.5	283.335	279.208
008567 JOSEPH QUAD	160253	0	0	160253	-36	12.7	1013868	0.6	18.2	849	-34.4	13.1	4869	-4	17.9	188.755	208.229
200131 QUAD 6F 125CM	0	0	97616	97616	-12	7.7	325591	5.2	5.8	231	-15.4	3.8	787	2.3	2.9	422.58	413.712
400004 JOSEPH 6F/5MM QUA	76767	0	0	76767	-19	6.1	327518	0.8	5.9	860	2.3	13.2	3460	17.3	12.8	89.264	94.858
006245 QUAD HIS BUNDLE	71748	0	0	71748	150.4	5.7	251945	82	4.5	281	87.3	4.3	1023	55	3.8	255.331	246.281
200066 QUAD COURNAND	60416	0	0	60416	90.2	4.8	168486	-14.7	3	332	62.7	5.1	956	-19.2	3.5	181.976	176.241
200060 QUAD JOSEPHSON	0	0	0	37065	-24.8	2.9	37065	-66.8	0.7	245	16.1	3.8	245	-57.7	0.9	151.286	151.286
200211 DECAPOLAR 6F	36050	0	0	36050	-33.6	2.9	129526	-40.5	2.3	155	-20.1	2.4	486	-38.7	1.8	232.581	266.514
008568 ELECTRODE CABLE	34346	0	0	34346	26.7	2.7	64415	-15	1.2	397	20.7	6.1	751	-17.4	2.8	86.514	85.772
200797 OCTA EP XT 2MMX6F	0	0	27410	27410	-59.3	2.2	196907	-22.2	3.5	68	-57.8	1	500	-15.4	1.8	403.088	393.814
200212 DECAPOLAR 6F	23763	0	0	23763	359.6	1.9	112382	592.1	2	81	170	1.2	411	448	1.5	293.37	273.436
006692 QUAD HIS BUNDLE	23493	0	0	23493	49	1.9	64232	-8	1.2	180	55.2	2.8	505	-3.3	1.9	130.517	127.192
200151 QUAD JOSEPH	0	0	0	22836	17.4	1.8	58729	15.8	1.1	90	28.8	1.4	229	25.8	0.8	253.733	256.459
200344 QUAD 6F 125CM	0	0	21143	21143	-47.4	1.7	112436	9.4	2	82	-37.4	1	311	13.9	1.1	341.016	361.531
200150 QUAD COURNAND	20136	0	0	20136	325.3	1.6	47488	331.5	0.9	78	358.8	1.2	184	308.9	0.7	258.154	258.087
200472 QUAD STR 6F	19461	0	0	19461	0	1.5	89543	-1	1.6	111	-1.8	1.7	497	-5.2	1.8	175.324	180.167
200355 DECAPOLAR 6F	15491	0	0	15491	96.4	1.2	89065	96.2	1.6	57	119.2	0.9	333	79	1.2	271.772	267.462
200060E QUAD 5F 5MM	13007	0	0	13007	-40.5	1	85345	105.8	1.5	47	-73.4	0.7	499	53.1	1.8	276.745	171.032
200796 XT 6F OCTA	0	0	0	9809	-50.3	0.8	71744	150.2	1.3	21	-48.6	0.3	169	168.3	0.6	467.095	424.521
200587E COURNAND 1MM 5FR	0	0	0	7190	118.4	0.6	18808	226.5	0.3	25	0	0.4	86	94.1	0.2	287.6	284.97
200069 QUAD DAMATO	5195	0	0	5195	-85.6	0.4	25436	-79.5	0.5	27	-83.7	0.4	130	-75.7	0.5	192.407	195.662
200056 QUAD COURNAND	0	0	0	5163	-85.7	0.4	10663	-92.9	0.2	41	-85.8	0.6	87	-92.9	0.3	125.927	124.862
200473 QUAD STR 6F	0	0	0	5084	—	0.4	7712	-53.6	0.1	27	—	0.4	36	-39	0.1	188.296	214.222
200064 QUAD JOSEPHSON	4843	0	0	4843	—	0.4	46144	38.4	0.8	34	—	0.5	192	60	0.7	142.441	240.333
200152 QUAD COURNAND	0	0	0	4704	—	0.4	4704	—	0.1	17	—	0.3	17	—	0.1	276.706	276.706
200336 12 LEAD CBL 20FT	0	0	4690	4690	59	0.4	11108	276.5	0.2	9	50	0.1	22	266.7	0.1	521.111	504.909

200153 QUAD JOSEPH	0	0	0	4136	-72.2	0.3	4136	-88.1	0.1	17	-71.7	0.3	17	-91.9	0.1	243.294	243.294
200872 EASY MATE CBL	0	0	0	2819	-61.2	0.2	19027	-59	0.3	34	-80	0.5	224	-60.1	0.8	82.912	84.942
400002 VIKING QUAD	0	0	0	2718	—	0.2	2718	67.8	0	17	—	0.3	17	112.5	0.1	159.882	159.882
200873 EASY MATE CBL/6 P	0	0	0	2454	208	0.2	3577	346	0.1	31	267.5	0.5	43	437.5	0.2	79.161	83.186
390003 CABLE	0	0	0	1465	—	0.1	1465	—	0	13	—	0.2	13	—	0	112.692	112.692
200087 QUAD COURNAND	1404	0	0	1404	-88.1	0.1	45186	143.3	0.8	8	-81	0.1	265	204.6	1	175.5	170.513
002854 TRI HIS BUNDLE	1044	0	0	1044	-11.6	0.1	11483	63	0.2	9	-10	0.1	94	59.3	0.3	116	122.16
200792 DAMATO CURV 6F	0	0	0	64	-96.3	0	3806	-86.1	0.1	0	-100	0	18	-81.6	0.1	0	211.444
002853 TRI HIS BUNDLE	0	0	0	0	-100	0	8122	-67.2	0.1	0	-100	0	33	-67	0.1	0	246.121
002943 QUAD HIS BUNDLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
002944 QUAD HIS BUNDLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
004019 TRI HIS BUNDLE	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
004020 TRI HIS BUNDLE	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
004178 BERKO-CASTELL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006041 BIPOLAR 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006042 QUADPOLAR 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006248 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
006590 MODULAR CABLE	0	0	0	0	0	0	22633	159	0.4	0	0	0	253	184.3	0.9	0	89.458
019902 QUAD COURAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
039902 MODULAR 5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
059902 QUAD 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
099020 QUAD 6F 110CM	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
099021 TRI 7F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200055 QUAD COURNAND	0	0	0	0	-100	0	52208	80.7	0.9	0	-100	0	188	80.8	0.7	0	277.702
200057 QUAD JOSEPH	0	0	0	0	0	0	3041	—	0.1	0	0	0	11	—	0	0	278.455
200058 QUAD JOSEPHSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200059 QUAD JOSEPHSON	0	0	0	0	-100	0	32939	59.5	0.6	0	-100	0	189	60.2	0.7	0	174.28
200061 QUAD STRAIGHT	0	0	0	0	0	0	38	—	0	0	0	0	0	0	0	0	0
200062 QUAD STR 5F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
200063 QUAD DAMATO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200068 QUAD STR 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200070 TRIPOLAR DAMATO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200071 QUAD DAMATO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200076 QUAD COURNAND	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200077 QUAD JOSEPHSON	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200078 QUAD DAMATO	0	0	0	0	-100	0	19072	22	0.3	0	-100	0	63	6.8	0.2	0	302.73
200079 QUADPOLAR 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200085 HEX STR 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200120 QUAD JOSEPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200121 QUAD JOSEPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200122 QUAD COURNAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200124 HEX COURNAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200127 HEX COURNAND 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200201 QUAD JOSEPHSON	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200202 QUAD JOSEPHSON	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200203 QUAD DAMATO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200205 HEX COURNAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200206 HEX COURNAND	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200207 HEX JOSEPHSON	0	0	0	0	-100	0	3849	-77.8	0.1	0	-100	0	13	-80	0	0	296.077
200208 HEX COURNAND	0	0	0	0	-100	0	1925	-61.6	0	0	-100	0	6	-62.5	0	0	320.833
200209 OCTAPOLAR 6F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200210 OCTAPOLAR 6F	0	0	0	0	-100	0	798	-98.5	0	0	-100	0	5	-93.2	0	0	159.6
200342 CABLE 10M	0	0	0	0	0	0	1161	137.4	0	0	0	0	13	85.7	0	0	89.308
200345 QUAD 7F 125CM	0	0	0	0	0	0	1900	—	0	0	0	0	5	—	0	0	380
200354 OCTAPOLAR 6F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
200433 HEX COURNAND 2MM	0	0	0	0	0	0	0	-100	0	0	0	0	0	0	0	0	0
200443 QUAD 7F 125CM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200446 STIMULATOR CBL	0	0	0	0	0	0	1485	—	0	0	0	0	10	—	0	0	148.5
200448 STIMUALTOR CBL	0	0	0	0	0	0	2970	—	0.1	0	0	0	20	—	0.1	0	148.5
200474 QUAD JOSEPHSON 2M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200481 QUAD COURNAND 2MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200482 HEXAPOLAR JOSEPH	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200487 6F QUAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200525 7F EP XT SM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200526 7F EP XT TIP MED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200527 7F EP XT TIP LARG	0	0	0	0	0	0	5723	—	0.1	0	0	0	16	—	0.1	0	357.688
200575 HEX STR 6F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
200581E QUAD CORNAND 5FR	0	0	0	0	0	0	3946	—	0.1	0	0	0	16	—	0.1	0	246.625
200595 SML 60 110CM 6FR	0	0	0	0	-100	0	5438	-54	0.1	0	-100	0	18	-55	0.1	0	302.111
200695 QUADPOLAR 6F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
200700 QUAD ATRL 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200706 QUAD COUR 2MMX6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200708 QUAD XT 6FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	0	0	0	0
200719 QUAD DAMATO 6FR	0	0	0	0	0	0	13420	—	0.2	0	0	0	48	—	0.2	0	279.583

5470 JOSEPHSON 5MM 6FR	49425	0	0	49425	3	3.8	160548	-18.2	2.8	241	-18.6	5.1	831	-26.5	4.6	205.083	193.199
651 QUICK CONN CABLE	39976	0	0	39976	21.9	3.1	133744	-21	2.4	272	45.5	5.8	896	-7.5	4.9	146.971	149.268
2270L STEEROCATH VLV MAP	0	0	33670	33670	11.9	2.6	86958	-32	1.5	43	13.2	0.9	112	-37.1	0.6	783.023	776.411
5459 COURN 2/8/2MM 6F	31517	0	0	31517	39.9	2.4	58130	-26.6	1	166	80.4	3.5	295	-23.4	1.6	189.861	197.051
2270N4 STEEROCATH	0	0	27898	27898	24.7	2.2	123772	-30.3	2.2	35	20.7	0.7	163	-34.3	0.9	797.029	759.337
5457 COURN 2/5/2MM 6F	20920	0	0	20920	1499.4	1.6	82962	39.6	1.5	72	1700	1.5	334	55.3	1.8	290.556	248.389
603 QUICK CONN	19298	0	0	19298	162.6	1.5	86044	11	1.5	120	185.7	2.6	512	13.5	2.8	160.817	168.055
604 QUICK CONN	16824	0	0	16824	121.2	1.3	29432	-58.7	0.5	112	124	2.4	196	-58.8	1.1	150.214	150.163
5570 POLARIS QUAD 2.5 6F	0	0	16720	16720	-89.9	1.3	196089	-61.2	3.5	49	-90	1	631	-57.2	3.5	341.224	310.759
5414 EXPLORER 5MM 5FR	15314	0	0	15314	655.9	1.2	40188	30.6	0.7	64	700	1.4	168	32.3	0.9	239.281	239.214
1101 STEERABLE 6/110/5/2	0	0	11921	11921	-59.6	0.9	104229	-15	1.8	34	-55.3	0.7	285	-10.9	1.6	350.616	365.716
652 QUICK CONN CABLE	0	0	0	11916	-52.1	0.9	25084	-32.3	0.4	90	-45.8	1.9	183	-28.2	1	132.4	137.071
5489 JOSEPHSON 10MM 6FR	8422	0	0	8422	3.6	0.7	37942	112.8	0.7	77	4.1	1.6	345	113	1.9	109.377	109.977
5573 POLARIS 6F	0	0	0	8105	-58.8	0.6	100017	278.1	1.8	21	-58.8	0.4	259	275.4	1.4	385.952	386.166
5458 DECAP 6FR	6560	0	0	6560	—	0.5	33970	—	0.6	21	—	0.4	109	—	0.6	312.381	311.651
2200 STEEROCATH 4-QUAD	0	0	6464	6464	132.1	0.5	53963	83.7	1	13	225	0.3	72	84.6	0.4	497.231	749.486
2250Q VALVE MAPPER	0	0	0	5495	-66.6	0.4	73239	70.7	1.3	7	-72	0.1	95	58.3	0.5	785	770.937
654 QUICK CONN CABLE	5149	0	0	5149	-49.9	0.4	19823	3.1	0.3	30	-49.2	0.6	113	-6.6	0.6	171.633	173.855
653 QUICK CONN CABLE	4512	0	0	4512	-20.8	0.4	25294	-39.8	0.4	30	-21.1	0.6	170	-42.4	0.9	150.4	148.788
5577 HEX 2.5 6FR	0	0	3741	3741	—	0.3	9823	—	0.2	9	—	0.2	23	—	0.1	415.667	427.067
2002 STEEROCATH	0	0	0	3566	—	0.3	8153	—	0.1	7	—	0.1	16	—	0.1	509.429	509.563
2002Q STEEROCATH	0	0	2788	2788	—	0.2	11414	—	0.2	4	—	0.1	19	—	0.1	697	600.737
703 QUICK CONN CABLE	2643	0	0	2643	—	0.2	9705	63.4	0.2	17	—	0.4	56	27.3	0.3	155.471	173.304
613 QUICK CONN CABLE 10'	2342	0	0	2342	-74.4	0.2	16066	-57.6	0.3	13	-75.9	0.3	92	-61.8	0.5	180.154	174.63
610 QUICK CONN	1935	0	0	1935	-80	0.2	5451	-43.7	0.1	13	-79.7	0.3	40	-37.5	0.2	148.846	136.275
625 QUICK CONN CABLE	0	0	0	591	—	0	1785	-92.1	0	7	—	0.1	19	-91.6	0.1	84.429	93.947
1601 STEERABLE DIAG	0	0	0	430	—	0	2436	-17	0	0	0	0	4	-50	0	0	609.5
2252P QUICK CONNECTOR	0	0	0	101	—	0	101	—	0	0	0	0	0	0	0	0	0
1102 STEERABLE 6/110/10/	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
1103 STEERABLE 6/110/2.5	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
1301 EPT-DX 6F/QUAD	0	0	0	0	-100	0	42739	-63.1	0.8	0	-100	0	88	-63.2	0.5	0	485.67
1301X STEERABLE DIAG	0	0	0	0	0	0	3174	—	0.1	0	0	0	13	—	0.1	0	244.154
1650 FRANZ COMB NON-STEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1675 STEERABLE 7FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
2000L STEEROCATH	0	0	0	0	0	0	15075	—	0.3	0	0	0	24	—	0.1	0	628.125
2001K1 STEEROCATH 6F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001Q STEEROCATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002L STEEROCATH	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
2021K1 STEEROCATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2027BL STEEROCATH 7F	0	0	0	0	-100	0	126754	-15.6	2.2	0	-100	0	219	-9.1	1.2	0	578.785
2030BL STEEROCATH 7FR	0	0	0	0	-100	0	16275	-65.6	0.3	0	-100	0	26	-85.3	0.1	0	625.962
2031 STEEROCATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2031L STEEROCATH	0	0	0	0	0	0	21285	—	0.4	0	0	0	26	—	0.1	0	818.654
2031Q STEEROCATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2032 STEEROCATH	0	0	0	0	-100	0	2298	-61.3	0	0	0	0	0	-100	0	0	0
2086C STEEROCATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2086K1 STEEROCATH 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2150 STEEROCATH MAP 7F	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
2200K STEEROCATH MAP 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2200K1 STEEROCATH VLV MA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250K1 STEEROCATH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2250K2 STEEROCATH	0	0	0	0	-100	0	25840	-81.9	0.5	0	-100	0	34	-82.1	0.2	0	760
2250L VALVE MAP 6FR	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
2252L QUICK CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2270K1 STEER VALVE MAP	0	0	0	0	0	0	2420	—	0	0	0	0	7	—	0	0	345.714
2270N1 STEEROCATH QUAD	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
3001L TRACFINDER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3001LP TRACFINDER QUAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3005L TRACFINDER QUAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5434 EXPLORER 2MM	0	0	0	0	0	0	8126	—	0.1	0	0	0	69	—	0.4	0	117.768
5471 QUAD DAMATO 10MM 6F	0	0	0	0	0	0	6765	-37.6	0.1	0	0	0	45	-37.5	0.2	0	150.333
5472 DAMATO STR 6FR	0	0	0	0	0	0	860	-52.2	0	0	0	0	4	-55.6	0	0	215
5479 EXPLORER ST 6FR	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
5480 COURNAND FIXED	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
5576 POLARIS HEX 2/5/2.6	0	0	0	0	-100	0	17804	-66.3	0.3	0	-100	0	53	-66.5	0.3	0	335.926
5593 POLARIS LE 7/110	0	0	0	0	0	0	19928	-59.5	0.4	0	0	0	59	-33.7	0.3	0	337.763
600 QUICK CONN CABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
601 QUICK CONN CABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
602 QUICK CONN CABLE	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
621001 FRANZ MAP CONT EL	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
621101 MOVE STYLE CON EL	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
623 QUICK CONN 4PIN	0	0	0	0	-100	0	3112	-76.9	0.1	0	-100	0	31	-77.2	0.2	0	100.387
626 QUICK CONN CABLE	0	0	0	0	-100	0	8302	-80.7	0.1	0	-100	0	65	-77.4	0.4	0	127.723
636 EPT-DX EXT CABLE 5FT	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0

EXPLORER ELECTRODE E-P 86/04	408311	0	0	482383	89.4	25.3	1315739	24.5	17.6	3926	112.8	43.5	10449	43	34.8	122.869	125.92
5291 QUAD CURVE 5MM	211127	0	0	211127	135	43.8	464706	34.4	35.3	1828	136.2	46.6	3919	38.3	37.5	115.496	118.578
5294 QUAD COURNAND 5MM	105007	0	0	105007	78.3	21.8	414690	79.5	31.5	1118	137.9	28.5	3889	133	37.2	93.924	106.632
5433 QUAD MULTI 5MM	50863	0	0	50863	97.2	10.5	120723	-25.7	9.2	416	87.4	10.6	1008	-19.1	9.6	122.267	119.765
5215 QUAD 6FR 10MM	0	0	0	41459	---	8.6	51130	187.3	3.9	183	---	4.7	231	220.8	2.2	226.552	221.342
5295 QUAD COURNAND 2MM	0	0	0	24150	-31.8	5	25661	-80.8	2	125	-30.6	3.2	129	-79.5	1.2	193.2	198.922
5229 CONDUCTIVE STY 5MM	23049	0	0	23049	42.2	4.8	99928	516.6	7.6	130	88.4	3.3	577	736.2	5.5	177.3	173.185
5222 CON STDY 4P 10MM	13160	0	0	13160	-40.1	2.7	66077	15.8	5	56	-44	1.4	281	12.4	2.7	235	235.149
5404 QUAD JOSEPH JR 5MM	5105	0	0	5105	45.2	1.1	21480	-42.1	1.6	21	50	0.5	91	-48	0.9	243.095	236.044
5218 QUAD 6FR 2MM	0	0	0	4635	---	1	5524	317.9	0.4	17	---	0.4	22	144.4	0.2	272.647	251.091
5413 QUAD JOSEPH 2MM	0	0	0	3828	---	0.8	22465	---	1.7	32	---	0.8	125	---	1.2	119.625	179.72
CH602 6FR 2MM 6 ELECT	0	0	0	0	0	0	1825	---	0.1	0	0	0	6	---	0.1	0	270.833
5201 6F 5MM 3 ELECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5204 6FR 5MM ELECT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5205 6FR 10MM 4 ELECT	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
5206 QUAD 6F 125CM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5207 7FR 10MM 4 ELEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5209 6F 2MM 6 ELEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5210 6FR 2MM 6ELEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5211 6FR 10MM 12 ELEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5214 QUAD 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5223 SPEC PROCED 5MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5224 CORONARY SINUS 2MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5225 6FR 5MM 4 ELECT SIN	0	0	0	0	0	0	392	---	0	0	0	0	0	0	0	0	0
5230 2 ELECT CS 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5232 QUAD 6F 5MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5247 COURNAND 6FR 2MM	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
5298 QUAD COURNAND 10MM	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
5411 12 ELEC 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5412 QUAD JOSEPH JR 10MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5416 COURNAND JR 2MM	0	0	0	0	-100	0	2112	4.2	0.2	0	-100	0	9	12.5	0.1	0	234.667
5418 JOSEPHSON 5FR	0	0	0	0	0	0	4068	---	0.3	0	0	0	37	---	0.4	0	109.946
5422 OCTA 2/5/2 100CM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5423 ST/MP 5FR	0	0	0	0	0	0	13741	---	1	0	0	0	119	---	1.1	0	115.471
5560 10MM 6FR	0	0	0	0	0	0	1417	---	0.1	0	0	0	6	---	0.1	0	236.167
POLARIS EP CATH E-P 90/01	0	13436	0	138860	161	7.3	512696	445.9	6.8	409	335.1	4.5	1368	643.5	4.6	339.511	374.778
5572 QUAD 2/5/2 6F	0	0	0	106749	2132.3	76.9	246687	1212.9	48.1	336	2700	82.2	797	1560.4	58.3	317.705	309.519
5571 QUAD 2.5/10MM 6F	0	0	0	18979	1542.1	12.2	61890	1852.4	12.1	52	1200	12.7	170	1207.7	12.4	326.519	364.059
5832TP3 EPT	0	13436	0	13436	-56.2	9.7	147361	380.3	26.7	21	-55.3	5.1	226	380.9	16.5	639.81	652.04
5264 OCTA 2/10/2 100CM	0	0	0	1148	---	0.8	1148	---	0.2	0	0	0	0	0	0	0	0
5263 OCTA 2/5/2 100CM	0	0	0	548	---	0.4	548	---	0.1	0	0	0	0	0	0	0	0
5250 QUADRIPOLAR 7FR 5MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5251 QUADRIPOLAR 7FR 10M	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
5252 QUADRIPOLAR 7FR 2/5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5268 HEXAPOLAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5270 SHORT REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5271 SHORT REACH 2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5272 SHORT REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5273 STANDARD REACH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5274 LONG REACH 2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5275 LONG REACH 3.0	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
5276 OCTA 6.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5360 JR 5MM	0	0	0	0	0	0	1291	---	0.3	0	0	0	5	---	0.4	0	258.2
5361 JR 10MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5362 JR 2/5/2MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5574 QUAD LNG 2/5/2MM 6F	0	0	0	0	0	0	49708	---	9.7	0	0	0	164	---	12	0	303.098
5886THMP50 7/110/2.5-5-2	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
5888TP3 EPT	0	0	0	0	-100	0	4063	-47	0.8	0	-100	0	6	-50	0.4	0	677.167
5888TP5 EPT	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
ONE PROCEDURE E-P 95/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5376 QUAD CATH SET	0	0	0	0	0	---	0	0	---	0	0	---	0	0	---	0	0
MEDTRONIC	230368	0	0	280553	3.3	1.8	1491402	-18.3	2.3	2160	11.9	3.8	10266	-1.1	4.7	129.886	145.276
TORQR DIAG CATH MRB 93/04	230368	0	0	280553	3.3	100	1491402	-18.3	100	2160	11.9	100	10266	-1.1	100	129.886	145.276
04125JM QUAD JSPH 5/5/5	111480	0	0	111480	-23.6	39.7	570530	-46	38.3	1012	3.3	46.9	4729	-20	46.1	110.158	120.645
041005JM TORQR JOS 5/5/5	55904	0	0	55904	828.9	19.9	227692	121.5	15.3	480	2300	22.2	1499	173	14.6	116.467	151.896
04122JM TORQR JOS 2/5/2	46476	0	0	46476	69.1	16.6	165202	-2.6	12.4	267	74.5	12.4	1070	-2.5	10.4	174.067	173.086
44216U COURAND 2/5/2 6F	0	0	0	20313	---	7.2	20313	171.1	1.4	133	---	6.2	133	259.5	1.3	152.729	152.729
04125UM COURAND 110CM/5M	0	0	0	10903	---	3.9	16197	-84.4	1.1	103	---	4.8	146	-77.9	1.4	105.854	110.938
041002JM TORQR JOS 2/5/2	0	0	0	9366	---	3.3	9366	---	0.6	31	---	1.4	31	---	0.3	302.129	302.129
041005UM COUR 110/5MM	8901	0	0	8901	---	3.2	22818	57	1.5	78	---	3.6	182	58.3	1.8	114.115	125.374
041565CS COURNAND 2/5/2	7607	0	0	7607	-52.9	2.7	56030	-43.2	3.8	22	-48.8	1	154	-42.5	1.5	345.773	363.831
041590CS CORONARY	0	0	0	6507	---	2.3	43468	---	2.9	21	---	1	134	---	1.3	309.857	324.537
04122UM COURNAND 2/5/2	0	0	0	3096	233.6	1.1	10156	130.2	0.7	13	225	0.6	58	123.1	0.6	238.154	175.103
031102 XL QUAD 2/5/2 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

031202 XXL QUAD 2/5/2 7F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
041002J QUAD JOS 2/5/2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
041005DM DAMATO 110/5CM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
041005J QUAD JOS 5/5/5	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
041010J QUAD JOS 10/10/1	0	0	0	0	0	0	5869	—	0.4	0	0	0	38	—	0.4	0	183,028
041010UM COURN 110CM/10M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04121JM JOSEPH 10/10/10	0	0	0	0	0	0	69199	—	4.6	0	0	0	292	—	2.8	0	236,983
04121UM COURNAND 5F	0	0	0	0	0	0	50352	—	3.4	0	0	0	165	—	1.6	0	305,164
041865CS 2/8/2 5F	0	0	0	0	0	0	17663	—	1.2	0	0	0	47	—	0.5	0	375,809
042202 VOYAGR 2/5/2 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
441016JF JOSEPH 6F	0	0	0	0	0	0	14608	—	1	0	0	0	62	—	0.6	0	235,613
441016UB COURNAND	0	0	0	0	0	0	11129	—	0.7	0	0	0	70	—	0.7	0	158,986
44216JF JOSEPHSON 6F	0	0	0	0	-100	0	4259	0.6	0.3	0	-100	0	23	0	0.2	0	185,174
44216UB COURAND 6FR	0	0	0	0	0	0	650	—	0	0	0	0	6	—	0.1	0	108,333
44518J KF5/5/5 6FR	0	0	0	0	-100	0	4089	-87.2	0.3	0	-100	0	24	-86.6	0.2	0	170,375
44518U COUR5/5/5 6FR	0	0	0	0	-100	0	48585	-57.2	3.3	0	-100	0	373	-45	3.8	0	130,255
44518UB 5/5/5 6F	0	0	0	0	-100	0	103207	35	6.9	0	-100	0	1032	34.9	10.1	0	100,007
CATH MRB 91/09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21200001 TQ JOSEPHS 5/5/	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
VOYAGR DIAG CATH MRB 93/04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
042005S QUAD STEER 5/5/5	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
042102 XL QUAD 2/5/2	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
CARDIORHYTHM	0	0	66669	66669	155	0.4	194340	-3.4	0.3	129	168.8	0.2	370	0.3	0.2	516,814	525,243
MARINR DIAG CATH CTQ 95/03	0	0	66669	66669	155	100	194340	-3.4	100	129	168.8	100	370	0.3	100	516,814	525,243
043325M RF 2/5/2 90CM	0	0	57577	57577	235.2	86.4	149525	1.6	76.9	110	254.8	85.3	282	5.6	76.2	523,427	530,23
043328M 2/8/2 7F	0	0	9092	9092	1.4	13.6	44815	-17.1	23.1	19	11.8	14.7	88	-13.7	23.8	478,526	509,261
ARROW INT	1033	0	0	35665	63.9	0.2	132795	86.8	0.2	255	68.9	0.4	987	55.7	0.4	139,863	134,544
CATH AWI 82/10	1033	0	0	35665	63.9	100	132795	86.8	100	255	68.9	100	987	55.7	100	139,863	134,544
AM-02405-C COURNAND 5X2F	0	0	0	16505	102.3	46.3	22885	-33	17.2	66	88.6	25.9	92	-45.9	9.3	250,078	248,75
AI-06410 MAPPING 6FR 10M	0	0	0	13858	—	38.9	13858	—	10.4	160	—	62.7	160	—	16.2	86,613	86,613
AI-06405 MAPPING 6FR 110	0	0	0	4269	48	12	15804	78.9	11.9	25	47.1	9.8	94	80.8	9.5	170,76	168,128
AM-02405-D DAMATO 5MM	1033	0	0	1033	—	2.9	39296	—	29.6	4	—	1.6	157	—	15.9	258,25	250,293
AI-02405-S STRGHT 2F/5M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AI-05210 PACING 110CM 5F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
AI-05405-J SPACING 5FR 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AI-05425-J SPACING 2.5F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AI-06210 PACING 6FR 110C	0	0	0	0	0	0	2276	-84.2	1.7	0	0	0	27	-63.5	2.7	0	84,296
AI-06405-J JOSEPHSON 6F	0	0	0	0	0	0	7310	-2.7	5.5	0	0	0	215	-2.7	21.8	0	34
AI-06425 MAPPING 6FR 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM-02405-A QUAD 2F	0	0	0	0	-100	0	13486	1151	10.2	0	-100	0	99	1000	10	0	136,222
AM-02405-H QUAD 2F	0	0	0	0	-100	0	8780	714.5	6.6	0	-100	0	70	677.8	7.1	0	125,429
AM-02405-J JOSPHSN 5MX2F	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
AM-02405-S STR TIP 5MM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM-02405-V QUAD 2F	0	0	0	0	-100	0	9100	762.6	6.9	0	-100	0	73	812.5	7.4	0	124,658
MANSFIELD SCIENTIF	0	0	0	24585	-39.9	0.2	29575	-92.8	0	22	-42.1	0	26	-95.5	0	1117.5	1137.5
ELECTROPHYSIO CATH SMX 92/05	0	0	0	24585	-39.9	100	29575	-92.8	100	22	-42.1	100	26	-95.5	100	1117.5	1137.5
5501 OMNICURVE SURG PROB	0	0	0	24585	-36.5	100	29575	-92.7	100	22	-35.3	100	26	-95.5	100	1117.5	1137.5
CUSTOM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5253 DEFLCT TIP POLARIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
571015 DEFLECT BULBOUS 2	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
571150 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
571151 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
571152 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
571153 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
571154 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
572003 SPACING CRV D 6FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
572016 SPACING CRV B 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
572053 CURVE B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
572055 CURVE D	0	0	0	0	-100	0	0	-100	0	0	0	0	0	0	0	0	0
572057 ORTHOG CV 2CM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COOK PACEMAKER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATHETER EP CKK 94/02	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
MZ-000-0400 CABLE QUAD E	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
ELECTROPHYSIO CATH CKK 95/12	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
MZ301645BLU CATH	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
EP BUDDY CATH CKK 95/11	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
MZ-BUDDY-002 2 CHANNEL	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
MZ-BUDDY-004 4 CHANNEL	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
ELECTRO-CATH	0	0	0	0	-100	0	5112	-94.8	0	0	-100	0	44	-94.3	0	0	116,182
CATH ELE 00/00	0	0	0	0	-100	—	2834	-95.1	55.4	0	-100	—	22	-95	50	0	128,818
104-54387 STANDARD 7FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
104-64387 TIGHT 7FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
104-74387 LARGE 7FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-12215 QUAD 5F STRT	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0

404-21215 QUAD 5F COUR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-21216 QUAD 6F COUR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-22215 QUAD 5F COUR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-22216 QUAD 6F COUR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-31216 QUAD 6F JOE	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-31654 QUAD 4FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-32216 QUAD 6F JOE	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-32255 QUAD 5F JOE	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-32256 QUAD 6F JOE	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-41215 QUAD 5F DAMA	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-41216 QUAD 6F DAMA	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
406-21266 HEX 6FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
504-22216 QUAD CRV 6F	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
504-32255 QUAD CRV 5F	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
504-32256 QUAD CRV 6F	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
804-22216 COURNAND 6FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
804-22256 COURNAND 6FR	0	0	0	0	0	—	1417	-94.8	50	0	0	—	11	-94.7	50	0	128.818
804-32256 JOSEPHSON 6FR	0	0	0	0	-100	—	1417	-95.3	50	0	-100	—	11	-95.2	50	0	128.818
804-32266 JOSEPHSON 6FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
804-42216 DAMATO 6FR	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
CONNECTOR ELE 88/01	0	0	0	0	-100	—	903	-88.3	17.7	0	-100	—	9	-88.7	20.5	0	100.333
404-10000 MULTI-PIN	0	0	0	0	-100	—	903	-82.8	100	0	-100	—	9	-82.4	100	0	100.333
404-50000 MULTI-PIN	0	0	0	0	-100	—	0	-100	0	0	-100	—	0	-100	0	0	0
404-60000 MULTI-PIN	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-80000 MULTI-PIN	0	0	0	0	0	—	0	-100	0	0	0	—	0	-100	0	0	0
ELETRACE SYSTEM ELE 86/03	0	0	0	0	0	—	0	0	0	0	0	—	0	0	0	0	0
404-51000 FAST TURN CABL	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
404-52001 FAST TURN CONN	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
404-52009 FAST TURN ADPT	0	0	0	0	0	—	0	0	—	0	0	—	0	0	—	0	0
PROBE ELE 00/00	0	0	0	0	-100	—	1375	-95.8	26.9	0	-100	—	13	-94.9	29.5	0	105.769
22-9006 MULTIPACE	0	0	0	0	0	—	0	-100	0	0	0	—	0	-100	0	0	0
26-7366 HEXAPOLAR	0	0	0	0	0	—	0	-100	0	0	0	—	0	-100	0	0	0
73-1000 PACEMATE 2F	0	0	0	0	-100	—	1375	-94.2	100	0	-100	—	13	-93.7	100	0	105.769
ATHERECTMY/ABLAT CATH 1303	0	0	0	5470517	-1.3	100	19816097	-3.5	100	7660	-4.9	100	26271	-3.1	100	714.167	693.859
EP TECHNOLOGIES IN	0	0	0	5449331	0.2	99.8	19205258	-2	97.9	7628	-3.5	99.6	27631	-1.4	97.7	714.385	695.062
THERMISTOR ABLATIO E-P 95/02	0	0	0	5449331	0.2	100	19205258	-2	100	7628	-3.5	100	27631	-1.4	100	714.385	695.062
5086TMN4 BLAZER II	0	0	0	4145	—	0.1	4145	—	0	5	—	0.1	5	—	0	829	829
5601TL EXTENDED CRV	0	0	0	6258	-9.5	0.1	9424	-86.4	0	8	-27.3	0.1	12	-87.6	0	782.25	785.333
5031THMN4 BLAZER II 7FR	0	0	0	22277	-49.7	0.4	31225	-68.9	0.2	29	-59.7	0.4	41	-73	0.1	768.172	761.585
5031THNRI BLAZER 7FR	0	0	0	74176	—	1.4	74176	—	0.4	98	—	1.3	98	—	0.4	756.898	756.898
6103N4 QUAD 7/110/2.5/8-	0	0	0	0	0	0	4524	—	0	0	0	0	6	—	0	0	754
5086THN4 5MMX7FR	0	0	0	9734	-87.9	0.2	40667	34.1	0.2	12	-70.7	0.2	54	31.7	0.2	811.167	753.093
5086TK1 BLAZER II 6F	0	0	0	9703	-20.8	0.2	24668	101.3	0.1	12	-33.3	0.2	33	83.3	0.1	808.583	747.515
5013TK2 CRV LGE 7FR	0	0	0	0	0	0	28280	—	0.1	0	0	0	38	—	0.1	0	744.211
5601TN4 QUAD N4	0	0	0	0	-100	0	21517	-11.9	0.1	0	-100	0	29	-9.4	0.1	0	741.966
5031TMK2 LRG CURVE 7FR	0	0	0	4446	-74.8	0.1	38545	-64.3	0.2	6	-76.9	0.1	52	-66	0.2	741	741.25
5068TK2 BLAZER II	0	0	0	0	0	0	21228	—	0.1	0	0	0	29	—	0.1	0	732
6304 QUAD 7/110/2.5	0	0	0	99193	-25.6	1.8	433895	4.1	2.3	137	-25.5	1.8	597	3.6	2.2	724.036	726.792
5031THN4 BLAZER II 7FR	0	0	0	40958	-71.4	0.8	245619	-23.7	1.3	54	-73.5	0.7	338	-25.4	1.2	758.481	726.683
5086TN4 BLAZER II QUAD	0	0	0	4569	-67.5	0.1	24815	-69.1	0.1	6	-72.7	0.1	34	-69.9	0.1	761.5	723.971
5086T QUAD 5MM	0	0	0	418786	111.5	7.7	921429	-10.4	4.8	557	98.9	7.3	1273	-12.5	4.6	751.86	723.825
5601TK1 BLAZER SML 6FR	0	0	0	54890	57.6	1	149038	20.9	0.8	77	51	1	207	15.6	0.7	712.857	719.99
6304K2 QUAD 7/110/2.5	0	0	0	273754	-55.8	5	1179109	-18.7	6.1	366	-57.9	4.8	1644	-19.5	5.9	747.962	717.22
5086THK2 BLAZER II 7F/QD	0	0	0	536920	94.7	9.9	1946894	56.2	10.1	721	78	9.5	2716	56.4	9.8	744.668	716.824
6104K2 QUAD 7/110/2.5	0	0	0	0	-100	0	5733	-87.4	0	0	-100	0	8	-87.3	0	0	716.625
5601T BLAZER 6FR	0	0	0	131717	209.9	2.4	409037	28.8	2.1	182	198.4	2.4	571	26.9	2.1	723.72	716.352
6303K1 QUAD CATH	0	0	0	69364	129.2	1.3	223956	147.7	1.2	94	113.6	1.2	313	146.5	1.1	737.915	715.514
5086THM 8FR/5MM	0	0	0	0	0	0	26460	—	0.1	0	0	0	37	—	0.1	0	715.135
5031TMNR1 QUAD MD	0	0	0	17150	—	0.3	17150	—	0.1	24	—	0.3	24	—	0.1	714.583	714.583
5031THM CATH MED DISTAL	0	0	0	143046	86.4	2.6	328879	25.7	1.7	193	65	2.5	462	19.7	1.7	741.171	711.859
6303M QUAD 7/110/2.5/8-4	0	0	0	0	0	0	24912	361.8	0.1	0	0	0	35	400	0.1	0	711.771
6303N4 QUAD 7/110/2.5/8-	0	0	0	42377	179.6	0.8	175568	50.9	0.9	60	185.7	0.8	247	51.5	0.9	706.283	710.794
5086TK2 QUAD 5MM TIP	0	0	0	504477	-35.7	9.3	1748690	-28.1	9.1	689	-40	9	2473	-29.7	9	732.187	707.113
6303 QUAD 7/110/2.5	0	0	0	120763	-63.6	2.2	366619	-37.8	1.9	165	-64.1	2.2	519	-36.4	1.9	731.897	706.395
5086THMK2 5MM	0	0	0	13954	—	0.3	38733	—	0.2	21	—	0.3	55	—	0.2	664.476	704.236
6303N2 QUAD 7/110/2.5/8-	0	0	0	0	-100	0	54742	159.3	0.3	0	-100	0	78	169	0.3	0	701.821
5031THK2 LRG CURVE HT 7F	0	0	0	451428	24.2	8.3	1988208	17	10.4	628	17.8	8.2	2843	16.6	10.3	718.834	699.335
5031TNR1 QUAD NR1 BLAZER	0	0	0	20447	—	0.4	71212	—	0.4	28	—	0.4	102	—	0.4	730.25	698.157
5031TK1 LRG CURVE 7FR	0	0	0	95339	11.5	1.7	291155	-11.4	1.5	127	-3.1	1.7	418	-13.3	1.5	750.701	696.543
5086TH BLAZER II	0	0	0	43698	-62.6	0.8	300584	157.1	1.6	60	-64.9	0.8	432	152.6	1.6	728.3	695.796
5031TM STD CURVE 7FR	0	0	0	26437	-26.9	0.5	151144	-22.1	0.8	40	-25.9	0.5	218	-22.7	0.8	660.925	693.321
5031TN4 QUAD 4FR	0	0	0	13859	-90.3	0.3	357733	34	1.9	21	-89.5	0.3	516	36.9	1.9	659.952	693.261
5601TK2 BLAZER LRG 6FR	0	0	0	56536	-38.9	1	181173	-15.4	0.9	85	-34.6	1.1	262	-12.7	0.9	665.129	691.5
5031TMN4 CATH MED DISTAL	0	0	0	25955	155.9	0.5	51670	55	0.3	37	146.7	0.5	75	56.3	0.3	701.486	688.933

5031T STD CURVE 7FR	0	0	0	488359	8.6	9	1695336	-33.4	8.8	700	7.5	9.2	2475	-32.5	9	697.656	684.984
5031TL QUAD 4FR	0	0	0	211920	22.6	3.9	673243	-6.6	3.5	289	12.5	3.8	983	-4.4	3.6	733.287	684.886
5086TL QUAD 5MM	0	0	0	157159	23.1	2.9	657955	26.7	3.4	214	10.9	2.8	963	28.9	3.5	734.388	683.235
5832TP5 POLARIS 7F	0	0	0	0	-100	0	22460	-36.1	0.1	0	-100	0	33	-38.9	0.1	0	680.606
5832THMP3 QUAD 7F	0	0	0	8032	—	0.1	52289	—	0.3	12	—	0.2	77	—	0.3	669.333	679.078
5031THMK2 QUAD 7FR	0	0	0	17365	82.5	0.3	55815	-40.3	0.3	26	82.5	0.3	82	-37.4	0.3	667.885	678.232
5086TMK2 QUAD 5MM	0	0	0	55130	-44	1	317102	44.8	1.7	84	-42.5	1.1	469	46.6	1.7	656.31	676.124
5031TK2 LRG CURVE 7FR	0	0	0	558498	44	10.2	1548848	-39	8.1	819	46.3	10.7	2299	-37	8.3	681.927	673.705
6303N3 STEEROCATH 7/110/	0	0	0	6075	—	0.1	15470	-6.2	0.1	10	—	0.1	23	0	0.1	607.5	672.609
5086TM QUAD	0	0	0	22883	-68.3	0.4	172726	82.2	0.9	41	-60.6	0.5	257	89	0.9	558.122	672.086
6104 QUAD 7/110/2.5	0	0	0	0	-100	0	32110	-59.3	0.2	0	-100	0	49	-57	0.2	0	655.306
5888THP3 POLAR	0	0	0	28058	—	0.5	119174	—	0.6	48	—	0.6	182	—	0.7	609.957	654.802
5832THP5 QUAD HTD	0	0	0	170789	172.9	3.1	222876	256.2	1.2	265	173.2	3.5	342	252.6	1.2	644.487	651.884
5031TH BLAZER II 7FR	0	0	0	168205	-37.8	3.1	819807	9.3	4.3	252	-38.4	3.3	1259	13.9	4.6	667.48	650.998
6103 QUAD 7/110/2.5/8.4	0	0	0	0	-100	0	8381	-56.6	0	0	-100	0	13	-51.9	0	0	644.692
5888THP5 QUAD POL-T	0	0	0	150841	126.8	2.8	558120	739.1	2.9	216	103.8	2.8	868	718.9	3.1	698.338	642.995
5832THP3 POLAR	0	0	0	69661	—	1.3	214474	—	1.1	112	—	1.5	343	—	1.2	621.973	625.289
6303N1 QUAD 7/110/2.5/8-	0	0	0	0	0	0	7118	-71.6	0	0	0	0	20	-41.2	0.1	0	355.9
2601T BLAZER 7/110/2.5/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2601TK1 BLAZ 7/110/2.5/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2601TK2 BLAZ 7/110/2.5/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2601TL BLAZE 7/110/2.5/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2870T BLAZER 7/110/2.5/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2870TK2 BLAZ 7/110/2.5/8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5888THMP30 7/110/2.5-5-2	0	0	0	0	-100	0	0	-100	0	0	-100	0	0	-100	0	0	0
6103K1 QUAD 7/110/2.5/8-	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
6103N1 QUAD 7/110/2.5/8-	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
6301N4 QUAD 7/110/2.5/8.	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
6302 STEEROCATH 7/110/2/	0	0	0	0	0	0	0	-100	0	0	0	0	0	-100	0	0	0
6304K1 QUAD 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6364K2 CATH CRV 4MM 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEDTRONIC	0	0	0	21186	-79	0.4	410839	-44.7	2.1	32	-79.5	0.4	640	-44.5	2.3	662.063	641.936
PERFORMR RF MRB 97/03	0	0	0	21186	-79	100	410839	-44.7	100	32	-79.5	100	640	-44.5	100	662.063	641.936
87153522 THERM 2/5/2 7FR	0	0	0	0	-100	0	4720	121.7	1.1	0	-100	0	7	75	1.1	0	674.286
87155523 THERM 2/5/2 7FR	0	0	0	3548	-91.7	16.7	41798	-68.5	10.2	5	-91.9	15.6	62	-68.2	9.7	709.6	674.161
87956534 THERM 2/5/2 7FR	0	0	0	11862	-89.9	56	72604	-52.4	17.7	18	-71.9	56.3	111	-52.8	17.3	659	654.09
87154523 THERM 2/5/2 7FR	0	0	0	3548	—	16.7	112590	-56.6	27.4	5	—	15.6	174	-58.2	27.2	709.6	647.069
87155533 RF PERFMR 7F	0	0	0	0	0	0	154575	124.9	37.6	0	0	0	241	119.1	37.7	0	641.39
97956534 7FR STIFF	0	0	0	0	0	0	7568	—	1.8	0	0	0	13	—	2	0	582.154
87955533 THERM 2/5/2 7FR	0	0	0	2228	-86.8	10.5	2228	-98.1	0.5	4	-84.6	12.5	4	-97.7	0.6	557	557
9715-4523 QUAD 2/5/2 7FR	0	0	0	0	0	0	14756	26.9	3.6	0	0	0	28	40	4.4	0	527
87566663 THERM 7FR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0