

USER: GRAY, ILKA K (ixg)

FOLDER: K984638 - 83 pages (FOI:08003844)

COMPANY: I-FLOW CORP. (IFLOW)

PRODUCT: SET, ADMINISTRATION, INTRAVASCULAR

(FPA)

SUMMARY: Product: PARAGON BOLUS ACCESSORY

SET

DATE REQUESTED: Fri Jan 15 24:00:00 2010

DATE PRINTED: Tue Nov 16 14:09:44 2010

Note: Releasable Version

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20202 Windrow Rd. Lake Forest, CA 92630 (800) 448-3569 (714) 206-2700 Fax (714) 206-2600

K984638

SUMMARY OF SAFETY AND EFFECTIVENESS

December 30, 1998

Trade Name: Paragon Bolus Accessory Set

Common Name: Bolus Accessory

Classification Name: Set, Administration, Intravascular

All questions and/or comments concerning this document should be made to:

Robert J. Bard, Esq., R.A.C. Vice President of Regulatory and Legal Affairs

I-Flow Corporation 20202 Windrow Drive Lake Forest, CA 92630

Telephone: 949.206.2700

Fax: 949.206.2600

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1.0 GENERAL INFORMATION

1.1 Purpose of Submission

- 1.1.1 This submission is intended to notify the Federal Food and Drug Administration that I-Flow Corporation intends to market an accessory device for the Paragon Infusion System (K923875), originally identified as the SideKick 50 Plus and SideKick 100 Plus. This new accessory will be known as the Paragon Bolus Accessory Set, hereafter identified as the Bolus Accessory. No change will be made to the existing Paragon pump or administration sets.
- 1.1.2 Trade Name: Paragon Bolus Accessory Set
- 1.1.3 Common Name: Bolus Accessory Set
- 1.1.4 Classification Name: Set, Administration, Intravascular
- 1.1.5 Product Code: 80 FPA
- 1.1.6 Device Classification: Class II, 880.5440
- 1.1.7 Classification Panel: General Hospital and Personal Use Device

1.2 Statement of Equivalence

1.2.1 The Bolus Accessory is substantially equivalent to Patient Control Module (K884505) marketed by Baxter Healthcare Corporation and the I-Flow Bolus Dispenser (K935811).

2.0 PHYSICAL SPECIFICATIONS AND DESCRIPTIONS

2.1 Description of the Bolus Accessory

Wherever the Paragon pump and administration set are mentioned, they may be replaced by any constant 6 psi pressure system.

- 2.1.1 The Bolus Accessory may connect to any Paragon administration set to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 2.1.2 The Bolus Accessory consists of plastic housing, medication reservoir, bolus button activator and wrist bands.
- 2.1.3 The bolus button allows patient controlled administration of medication as needed.

2.2 **Product Configuration**

2.2.1 The Bolus Accessory is available in 0.5 ml bolus volume.

2.3 Components and Materials

2.3.1 All fluid path components of the Bolus Accessory are in conformance with ISO 10993 Part 1.

2.4 Power Requirements

2.4.1 The Bolus Accessory is a mechanical device that requires no external power.

3.0 OPERATIONAL SPECIFICATIONS AND DESCRIPTIONS

3.1 Standard Operating Conditions:

Bolus Volume: 0.5 ml
Refill Time: variable
Priming/Residual Volume: <=4 ml
Operating Temperature: 90 ± 2°F
Calibration Solution: 0.9% NaCl

Operating Pressure: 6.0 psi pressure source

Head Height: 0"

Accuracy: bolus volume: ±10% at 95% confidence interval at

the identified lockout times.

3.2 **Performance Data:** Testing occurred at standard operating conditions. All models performed within the specified accuracy when tested at nominal conditions.

3.3 Safety / Alarm Funtions

- 3.3.1 This device contains no alarms or indicators.
- 3.3.2 The non-linear refill adds additional patient safety if the bolus button is activated prior to the lockout time.

4.0 BIOLOGICAL SPECIFICATIONS

4.1 Biological testing is in conformance with ISO 10993 Part 1 for all fluid path components.

5.0 CHEMICAL AND DRUG SPECIFICATIONS

- 5.1 Compatibility
 - 5.1.1 There are no specific drugs referenced in the labeling for the Bolus Accessory.
 - 5.1.2 The Bolus Accessory is intended for general purpose drugs and pain medication.

6.0 INTENDED USE

- 6.1 The Bolus Accessory is intended to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 6.2 The routes of administration intravenous, epidural, intramuscular and subcutaneous.
- 6.3 The Bolus Accessory is not intended for continuous delivery.
- 6.4 The Bolus Accessory is single patient use only.
- 6.5 The Bolus Accessory is suitable for use as an ambulatory device and is intended for use in the hospital, home environment or alternative care sites.
- 6.6 No testing has been conducted to determine the efficacy of Bolus Accessory for the delivery of blood, blood products, lipids or fat emulsions. The Bolus Accessory is not intended for the delivery of blood, blood products, lipids or fat emulsions.

7.0 STANDARDS

7.1 There are currently no standards established for mechanical PCA infusion devices.

8.0 PACKAGING

8.1 Packaging is suitable for radiation or ETO sterilization.

9.0 STERILIZATION

9.1 The method of sterilization is gamma radiation (cobalt 60).

10.0 COMPARISON TO LEGALLY MARKETED DEVICES

10.1 The Bolus Accessory has the same intended use as the predicate Baxter Pain Control Module and the I-Flow Bolus Dispenser. The Bolus Accessory has similar bolus volumes and lockout times as its predicate devices.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

FEB - 9 1999

Robert J. Bard, Esq., R.A.C. Vice President Regulatory and Legal Affairs I-Flow Corporation 20202 Window Drive Lake Forest, California 92630

Re: K984638

Trade Name: Paragon Bolus Accessory Set

Regulatory Class: II Product Code: FPA

Dated: December 30, 1998 Received: December 31, 1998

Dear Mr. Bard:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Good Manufacturing Practice for Medical Devices: General (GMP) regulation (21 CFR Part 820) and that, through periodic GMP inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

Page 2 - Mr. Bard

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4692. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely/

Timothy A. Ulatowsk

Director

Division of Dental, Infection Control, and General Hospital Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

510(k) Number (if known): <u>K984638</u>

Device Name: Paragon Bolus Accessory Set

Indications for Use:

1. The Paragon Bolus Accessory Set is intended to deliver fixed boluses of medication upon demand by the patient or healthcare provider. The routes of administration are intravenous, epidural, intramuscular and subcutaneous.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUED ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109)

www.The-Counter Use (Division Sign-Off)

Division of Dental, Infection Control,

and General Hospital Devices

(Optional Format 1-2-96) 510(k) Number



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

FEB - 9 1999

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Center for Devices and Radiological Health

Enclosure

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Prescription Use _ (Per 21 CFR 801.109) www.The-Counter Use

(Division Sign-Off)

Division of Dental, Infection Control,

and General Hospital Devices

510(k) Number

(Optional Format 1-2-96)

FOI (Page 13 (NF . 83)

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service -Food And Drug Administration

| | | подвисимию |
|---|-------------------|-------------|
| Reviewer(s) - Name(s) HUNG TRINIT | | Memora |
| ct: 510(k) Numberj\(\q \ \q \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | |
| The Record - It is my recommendation that the subject 510(k) Not | | |
| ☐Refused to accept. | | |
| Requires additional information (other than refuse to accept | ot). | |
| Accepted for review | | - |
| Is substantially equivalent to marketed devices. | | |
| ☐NOT substantially equivalent to marketed devices. | | |
| De Novo Classification Candidate? | Iyes [] | NO |
| Other (e.g., exempt by regulation, not a device, duplicate, e | | |
| Is this device subject to Postmarket Surveillance? | ☐YES | □ NO |
| Is this device subject to the Tracking Regulation? | ☐YES | □ NO |
| Was clinical data necessary to support the review of this 510(k)? | □YES | ⊡ NO |
| a prescription device? | L YES | □ № |
| Was this 510(k) reviewed by a Third Party? | □YES | □ NO |
| Special 510(k)? | DYES | . □ NO |
| Abbreviated 510(k)? | □YES | □ NO |
| This 510(k) contains: | | |
| Truthful and Accurate Statement Requested Enclosed required for originals received 3-14-95 and after) | | |
| △A 510(k) summary OR □A 510(k) statement | | |
| The required certification and summary for class III devices | | |
| A The indication for use form (required for originals received 1-1-96 | and after) | |
| rial of Biological Origin YES NO | | |
| he submitter requests under 21 CFR 807.95 (doesn't apply for SEs): | | |
| onfidentiality | fidentiality | -di00 d |
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| redicate Product Code with class:Additional Product Code | (s) with panel (c | ptional): |
| - 80 FPA ClasiT 1 | | . • • |
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| ranch Chief) (Branch Code) / / / / (B | lator 7 | |

Screening Checklist
For all Premarket Notification 510(k) Submissions

| For all Premarket Notification | n əta(r) | Onnimis | YOTT2 | |
|---|---------------------------------|---|--|-------------------------------------|
| Device Name: Paragon Boline Accessory | Set | | K98 | 4638 |
| Submitter (Company): I - flow Cell | | | | |
| Items which should be included (circle missing & needed information) | S P E C ! A L | A B B R E V I A T E D | T R A D I T O N A L | ✓ IF ITEM IS NEEDED AND IS |
| Cover Letter clearly identifies Submission as: Special 510(k): Device Modification Abbreviated 510(k) Traditional 510(k) | 60 TO # 2,4 | 10T00 | 88 ps. 445 | MISSING |
| 2. "SPECIALS" - ONLY FOR MODIFICATIONS TO MANUFACTURER'S | OWN CLASS II | III OD DESEDI | VED CLASS LE |)EVICE |
| a) Name & 510(k) number of legally marketed (unmodified) predicate device | | THE ON RESERVE | VED GEAGG (| ZEVICE |
| b) STATEMENT - INTENDED USE AND INDICATIONS FOR USE OF MODIFIED DEVICE AS DESCRIBED IN ITS LABELING HAVE NOT CHANGED* | | ±uno stoero | aspecial 1 | · |
| c) STATEMENT - FUNDAMENTAL SCIENTIFIC TECHNOLOGY OF THE MODIFIED DEVICE HAS NOT CHANGED* | | - If no - STOP no | a special * | |
| d) Design Control Activities Summary i) Identification of Risk Analysis method(s) used to assess the impact of the modification on the device and its components, and the results of the analysis | | | | |
| ii) Based on the Risk Analysis, an identification of the verification and/or validation activities required, including methods or tests used and acceptance criteria to be applied | | | : | |
| iii) A declaration of conformity with design controls. The declaration of conformity should include: 1) A statement signed by the individual | | | | |
| responsible, that, as required by the risk analysis, all verification and validation activities were performed by the designated individual(s) and the results demonstrated that the predetermined acceptance criteria were met | | | | |
| 2) A statement signed by the individual responsible, that manufacturing facility is in conformance with design control procedure requirements as specified in 21 CFR 820.30 and the records are available for review. | | - | | |

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| | YES N | YES | NO | YES | МО | AND IS MISSING |
| 3. ABBREVIATED 510(K): SPECIAL CONTROLS/CONFORMAN | NCE TO RE | COGNIZ | ED STA | NDARE |)S | MISSING |
| a) For a submission, which relies on a guidance | | | | | | |
| document and/or special control(s), a summary | | | | | | |
| report that describes how the guidance and/or | | 1 | | ĺ | | |
| special control(s) was used to address the risks | | | | | 1 | |
| associated with the particular device type | | | | | | |
| b) If a manufacturer elects to use an alternate approach | ļ | - 1 | | | | |
| to address a particular risk, sufficient detail should be | | | | | ł | |
| provided to justify that approach. c) For a submission, which relies on a recognized | | | | | | |
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| standard, a declaration of conformity to the standard. The declaration should include the following: | | | | | | |
| i) An identification of the applicable recognized | | - | | | | |
| consensus standards that were met | | | | 2 | | |
| ii) A specification, for each consensus standard, | | ļ | E STATE OF T | • | - | |
| that all requirements were met, except for | | l | | | | |
| inapplicable requirements or deviations noted | | | | | 1 | |
| below - | | | | • | . | |
| iii) An identification, for each consensus standard, of | | | | | - | |
| any way(s) in which the standard may have been | | İ | | | | |
| adapted for application to the device under | | | | | | |
| review, e.g., an identification of an alternative | | | | | 1 | |
| series of tests that were performed | | | | | | |
| iv) An identification, for each consensus standard, of | | | 200 | | <u> </u> | |
| any requirements that were not applicable to the | | | | | | |
| device | | | | | 1 | |
| v) A specification of any deviations from each | | | P 25 | | · | |
| applicable standard that were applied | | | | | 1 | } |
| vi) A specification of the differences that may exist, if | | | | | r | |
| any, between the tested device and the device to | • | - | | | | 1 |
| be marketed and a justification of the test results | | | | | | |
| in these areas of difference | | | | | | |
| vii) Name/address of test laboratory/certification | | | | | Γ | |
| body involved in determining the conformance of | manan m | | | | | |
| the device with applicable consensus standards | | | | | - | |
| and a reference to any accreditations for those organizations | | | | | | |
| | | | | | <u> </u> _ | |
| d) Data/information to address issues not covered by guidance documents, special controls, and/or | | | | | | |
| recognized standards | | 1 | | | | |
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 \rightarrow \rightarrow CONTINUE TO SECTION 4 \leftarrow \leftarrow

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| cials NO may be dinator A A | | NO | | NO | NEEDE AND IS MISSING |
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REVISED: 3/14/95

THE 510(K) DOCUMENTATION FORMS ARE AVAILABLE ON THE LAN UNDER 510(K) BOILERPLATES TITLED "DOCUMENTATION" AND MUST BE FILLED OUT WITH EVERY FINAL DECISION (SE, NSE, NOT A DEVICE, ETC.).

"SUBSTANTIAL EQUIVALENCE" (SE) DECISION MAKING DOCUMENTATION

| | K | | |
|---------|---|---------|-----------------------------------|
| Reviewe | er: | | |
| Divisio | on/Branch: | | |
| Device | Name: | | |
| Product | To Which Compared (510(K) Number If Kr | nown) : | |
| | | YES NO | |
| 1. I | s Product A Device | | If NO = Stop |
| 2. I | s Device Subject To 510(k)? | | If NO = Stop |
| 3. S | ame Indication Statement? | | If YES = Go To 5 |
| | Oo Differences Alter The Effect Or Raise New Issues of Safety Or Effectiveness? | | If YES = Stop NE |
| 5. 8 | Same Technological Characteristics? | | If YES = Go To 7 |
| 6. 0 | Could The New Characteristics Affect Safety Or Effectiveness? | | If YES = Go To 8 |
| 7. I | Descriptive Characteristics Precise Enough? | | If NO = Go To 10 If YES = Stop SE |
| 8. 1 | New Types Of Safety Or Effectiveness Questions? | | If YES = Stop NE |
| 9. I | Accepted Scientific Methods Exist? | | If NO = Stop NE |
| | erformance Data Available? | | If NO = Request Data |
| 11 D: | ata Demonstrate Equivalence? | | Final Decision: |

Note:

In addition to completing the form on the LAN, "yes" responses to questions 4, 6, 8, and 11, and every "no" response requires an explanation.



- 1. Intended Use:
- 2. Device Description: Provide a statement of how the device is either similar to and/or different from other marketed devices, plus data (if necessary) to support the statement. Is the device life-supporting or life sustaining? Is the device implanted (short-term or long-term)? Does the device design use software? Is the device sterile? Is the device for single use? Is the device for home use or prescription use? Does the device contain drug or biological product as a component? Is this device a kit? Provide a summary about the devices design, materials, physical properties and toxicology profile if important.

EXPLANATIONS TO "YES" AND "NO" ANSWERS TO QUESTIONS ON PAGE 1 AS NEEDED

- 1. Explain why not a device:
- 2. Explain why not subject to 510(k):
- 3. How does the new indication differ from the predicate device's indication:
- 4. Explain why there is or is not a new effect or safety or effectiveness issue:
- 5. Describe the new technological characteristics:
- 6. Explain how new characteristics could or could not affect safety or effectiveness:
- 7. Explain how descriptive characteristics are not precise enough:
- 8. Explain new types of safety or effectiveness questions raised or why the questions are not new:
- 9. Explain why existing scientific methods can not be used:
- 10. Explain what performance data is needed:
- 11. Explain how the performance data demonstrates that the device is or is not substantially equivalent:

ATTACH ADDITIONAL SUPPORTING INFORMATION

MEMO TO THE RECORD 510(K) REVIEW

DATE: 2/1/99

FROM: Hung Trinh # 2/3/99

OFFICE: HFZ-480 DIVISION:DDIG/GHDB

DOCUMENT: K984638

COMPANY NAME: I-Flow Corp

DEVICE NAME: Paragon Bollus Accessory set

Contact point: Robert Bard, VC Regulatory and Legal Affairs

949-206-2700 949-206-2600 (fx)

NARRATIVE DEVICE DESCRIPTION

1. SUMMARY DESCRIPTION OF THE SUBMISSION UNDER REVIEW:

The firm intends to extend the administration set product line for the Paragon Infusion System (K923875), originally identified as the SideKick 50 Plus and SideKick 100 Plus, to include a bolus accessory set.

2. INTENDED USE:

The device is intended to allow patient controlled bolus delivery.

- 3. DEVICE DESCRIPTION:
- A. Life-supporting or life-sustaining: no
- B. Implant (short-term or long-term): no
- C. Is the device sterile? yes

If yes, is sterility information provided? yes

Gamma radiation (cobalt 60) or (b)(4), (b)(5) Gamma radiation validation methodology is by ANSI/AAMI ST32-1191/EN 552; dosage from 25 to 35 kGyb)(4), (b)(5) sterilization complies with ANSI/AAMI/ISO (b)(4), (b)(5) 5)

- D. Is the device for single use? Single patient use
- E. Is the device for prescription use? yes
 If yes, is prescription labeling included? yes
- F. Is the device for home use or portable? yes
- G. Does the device contain drug or biological product as a component? no
- H. Is this device a kit? no
- I. Software-driven: no
- J. Electrically Operated: no
- K. Applicable standards to which conformance has been demonstrated (e.g., IEC, ANSI, ASTM, etc.): no
- L. Device(s) to which equivalence is claimed, manufacturer, and 510(k) number or preamendment status:

Baxter Basal/Bolus Infusor (K884505)

I-Flow Bolus Dispenser (K935811)

M. Submission provides comparative specifications

comparative in vitro data no

performance data

yes

yes

animal testing no clinical testing no

biocompatibility testing no (same material as predicate)

N. Provide a statement of how the device is either similar to and/or different from other marketed devices, plus data (if necessary) to support the statement. Provide a summary about the devices design, materials, physical properties and toxicology profile if important.

The device consists of a plastic housing, medication reservoir, bolus button activator, and wrist band. The device can be connected to any Paragon administration set to deliver fixed boluses of medication upon demand by the patient or healthcare provider. This device **does not** deliver continuous medication. The refill time of the medication reservoir is determined by the flow control orifice of the Paragon administration set, and therefore, is inversely proportional to the flow rate (see page 16 of 19).

The Baxter Patient Control module is very similar to the subject device in that it is composed of a plastic housing, medication reservoir, bolus button activator, and wrist bands. It also requires a pressure source to fill the medication reservoir.

Comparative specs:

| Comparison Element | Paragon Bolus Accessory Set | Baxter Patient Control Module | I-Flow Bolus Dispenser |
|--------------------|---|--|--|
| Bolus Volume | 0.5 ml; ±10% @ 95% confidence interval | 0.5 ml | 0-1.0 ml |
| Bolus Lockout time | 3.6, 9, 18, 35 and 70 min; ±15% @ 95% confidence interval | 6, 15, 60 min | 15, 30,, 60, 120 min |
| Pump Volume | 100 ml | 65 ml | 30 |
| Pressure source | Mechanical spring energy of the pump | Strain energy of elastomeric membranes | Mechanical Spring |
| Fluid Reservoir | PVC drug bag | Elastomeric membrane | PVC drug bag or polypropyplene syringe |

A more detailed comparison is available on page 22 of 23.

- O. Does the submission include a summary of safety and effectiveness information upon which an equivalence determination is based? yes
- P. RECOMMENDATION:

I believe that this device is equivalent to: 80 FPA

Classification should be based on:

880.5440 Intravascular (IV) administration set

Class: II

If the device is substantially equivalent to a class III device, does the submission include: (1) certification that a reasonable search of all information known, or otherwise available, about the generic type of device has been performed and (2) a summary description of the types of safety and effectiveness problems associated with the type of device and a citation to the literature, or other sources of information, upon which they have based the description? n/a

"SUBSTANTIAL EQUIVALENCE" (SE) DECISION MAKING DOCUMENTATION

K984638

Reviewer: Hung Trinh

Division/Branch: DDIGD/GHDB

Device Name: Paragon Bolus Administration set

Product To Which Compared (510(K) Number If Known):

YES NO

| | 1125 110 | | 1 | T-AND G |
|-------|---|---|---|--------------------------------------|
| 1. | Is Product A Device | X | | If NO = Stop |
| 2. | Is Device Subject To 510(k)? | X | | If NO = Stop |
| 3. | Same Indication Statement? | х | | If YES = Go To 5 |
| 4. | Do Differences Alter The Effect Or Raise New Issues of Safety Or Effectiveness? | | | If YES = Stop NE |
| 5. | Same Technological Characteristics? | х | | If YES = Go To 7 |
| 6. | Could The New Characteristics Affect Safety Or Effectiveness? | | | If YES = Go To 8 |
| 7. | Descriptive Characteristics Precise Enough? | | Х | If NO = Go To 10 If YES = Stop SE |
| 8. | New Types Of Safety Or Effectiveness Questions? | | | If YES = Stop NE |
| 9. | Accepted Scientific Methods Exist? | | | If NO = Stop NE |
| 10. I | Performance Data Available? | х | | If NO = Request Data |
| 11.1 | Data Demonstrate Equivalence? | Х | | Final Decision: SE |

Note: In addition to completing the form on the LAN, "yes" responses to questions 4, 6, 8, and 11, and every "no" response requires an explanation.

PAGE

20202 Windrow Dr Lake Forest, CA 92630 Tel: 949.206.2670 Fax: 949.206.2603

I-Flow Corporation



| x Urgei | nt 🗆 For Review | ☐ Please C | omment | ☐ Please Reply | ☐ Please Recycle |
|---------|----------------------|------------|--------|---------------------|------------------|
| Re: | K984063, K984146, K9 | 984638 | CC: | | |
| Phone: | 301.594.1287 x 130 | | Date: | 02/02/99 | |
| Fax: | 301.480.3002 | | Pages: | 6 | |
| To: | Mund Links | | | | |
| T | Hung Trình | | From: | Robert J Bard, Esq. | |

[•] Comments: The documents accompanying this facsimile transmission contains information which may be legally privileged and confidential. The information is intended only for the use of the recipient named below. If you have received this facsimile in error, please immediately notify us by telephone to arrange for return of the original documents to us. Any disclosure, copying, distribution or the taking of any action in reliance on the contents of this faxed information is strictly prohibited.



I-FLOW CORPORATION 20202 Windrow Drive Lake Forest, CA 92630 (800) 448-3569 (949) 206-2700 Fax (949) 206-2600

February 2, 1999

VIA FACSIMILE

Hung Trinh
Food and Drug Administration
Center for Devices and Radiological Health
Office Device Evaluation
9200 Corporate Blvd.
Rockville, Maryland 20850

Re:

K984063

K984146

K984638

Dear Mr. Trinh:

Pursuant to our conversation of February 2, 1999, I have made the following changes to the above referenced premarket notifications.

K984063 The Indications for Use description has been changed to a single statement. Lines 3, 4 and 5 have been deleted and Line 2 has been incorporated into Line 1.

No other changes have been made to premarket notification K984063.

K984146 A supplemental submission was made on January 13, 1999 to include synovial infusions as an additional indication for use. The basis of this supplemental submission was the finding of a predicate device (the McKinley Outbound K982256) that included (b)(4),(b)(5) as an indication for use.

I-Flow has agreed to remove the January 13 revision from our submission based on your statement that the McKinley will not be allowed to have an indication for use that includes (b) (4) (b)(5) Based on your statement, I-Flow believes the Office of Device Evaluation will require McKinley to modify their Indications for Use Statement and that the posting on the FDA 510(k) webpage will be changed.

The Indications for Use description has been changed to a single statement including both Lines 1 and 2.

K984638 The Indications for Use description has been changed to a single statement including both Lines 1 and 2.

No other changes have been made to premarket notification K984638.

If you have any additional issues specific to the above identified premarket notifications, either to the information provided or in general, I can be reached at 949.206.2670 or 800.206.2700.

Sincerely,

Robert J. Bard, Esq., R.A.C.

Vice President, Regulatory and Legal Affairs

510(k) Number (if known): <u>K984638</u>

Device Name: Paragon Bolus Accessory Set

Indications for Use:

1. The Paragon Bolus Accessory Set is intended to deliver fixed boluses of medication upon demand by the patient or healthcare provider. The routes of administration are intravenous, epidural, intramuscular and subcutaneous.

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUED ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use (Per 21 CFR 801.109) OR

Over-The-Counter Use

(Optional Format 1-2-96)

Food and Drug Administration Center for Devices and Radiological Health Office of Device Evaluation Document Mail Center (HFZ-401) 9200 Corporate Blvd. Rockville, Maryland 20850

December 31, 1998

I-FLOW CORP. 20202 WINDROW DR. LAKE FOREST, CA 92630 ATTN: ROBERT J. BARD 510(k) Number: K984638
Received: 31-DEC-1998
Product: PARAGON BOLUS
ACCESSORY SET

The Center for Devices and Radiological Health (CDRH), Office of Device Evaluation (ODE), has received the Premarket Notification you submitted in accordance with Section 510(k) of the Federal Food, Drug, and Cosmetic Act (Act) for the above referenced product. We have assigned your submission a unique 510(k) number that is cited above. Please refer prominently to this 510(k) number in any future correspondence that relates to this submission. We will notify you when the processing of your premarket notification has been completed or if any additional information is required. YOU MAY NOT PLACE THIS DEVICE INTO COMMERCIAL DISTRIBUTION UNTIL YOU RECEIVE A LETTER FROM FDA ALLOWING YOU TO DO SO.

On January 1, 1996, FDA began requiring that all 510(k) submitters provide on a separate page and clearly marked "Indication For Use" the indication for use of their device. If you have not included this information on a separate page in your submission, please complete the attached and amend your 510(k) as soon as possible. Also if you have not included your 510(k) Summary or 510(k) Statement, or your Truthful and Accurate Statement, please do so as soon as possible. There may be other regulations or requirements affecting your device such as Postmarket Surveillance (Section 522(a)(1) of the Act) and the Device Tracking regulation (21 CFR Part 821). Please contact the Division of Small Manufacturers Assistance (DSMA) at the telephone or web site below for more information.

Please remember that all correspondence concerning your submission MUST be sent to the Document Mail Center (HFZ-401) at the above letterhead address. Correspondence sent to any address other than the Document Mail Center will not be considered as part of your official premarket notification submission. Because of equipment and personnel limitations, we cannot accept telefaxed material as part of your official premarket notification submission, unless specifically requested of you by an FDA official. Any telefaxed material must be followed by a hard copy to the Document Mail Center (HFZ-401).

You should be familiar with the manual entitled, "Premarket Notification 510(k) Regulatory Requirements for Medical Devices" available from DSMA. If you have other procedural or policy questions, or want information on how to check on the status of your submission (after 90 days from the receipt date), please contact DSMA at (301) 443-6597 or its toll-free number (800) 638-2041, or at their Internet address http://www.fda.gov/cdrh/dsmamain.html or me at (301) 594-1190.

Sincerely yours,

Marjorie Shulman Consumer Safety Officer Premarket Notification Staff Office of Device Evaluation Center for Devices and Radiological Health

14984638

| | LicinalKet and | mission Cover She | |
|--|---|---|---|
| Date of Submission: 12/3 | 0/98 | FDA Document Numi | 001. W 7 |
| Section A | Type | of Submission | |
| ∑ 510(k) □ 510(k) Add'l information | ☐ IDE ☐ IDE Amendment ☐ IDE Supplement ☐ IDE Report | ☐ PMA ☐ PMA Amendment ☐ PMA Report | ☐ PMA Supplement - Regular ☐ PMA Supplement - Special ☐ PMA Supplement - 30 day ☐ PMA Supplement - Panel Track |
| Section B1 | Reason for Sub | mission — 510(k)s Or | ily 📜 😅 😤 |
| New device | Additional or expande indications | ed Change or | in technology, design, materials, manufacturing process |
| Other reason (specify): | | | |
| Section B2 | | mission — PMAs On | Location change: |
| ☐ New device ☐ Withdrawal ☐ Additional or expanded indi ☐ Licensing agreement | or specifications | in design, component, fication: Software Color Additive Other (specify below) | ☐ Location change. ☐ Manufacturer ☐ Sterilizer ☐ Packager ☐ Distributor |
| ☐ Labeling change: ☐ Indications ☐ Instructions ☐ Performance Characteristics ☐ Shelf life ☐ Trade name | acteristics C | I Manufacturer I Sterilizer I Packager | ☐ Report submission: ☐ Annual or periodic ☐ Post-approval study ☐ Adverse reaction ☐ Device defect |
| ☐ Other (specify below the control of the control | ☐ Request☐ Request☐ Request☐ | se to FDA correspondence (s t for applicant hold t for removal of applicant hol t for extension t to remove or add manufact | ld |
| ☐ Other reason (specify): | - Roques | | |
| Section B3 | Reason for Su | bmission — IDEs On | |
| □ New device □ Addition of institution □ Expansion / extension of str □ IRB certification □ Request hearing □ Request waiver □ Termination of study □ Withdrawal of application □ Unanticipated adverse effects | 2dy C C C C | in: Correspondent Design Informed consent Manufacturer Manufacturing Protocol – feasibility Protocol – other Sponsor | Response to FDA letter concerning: Conditional approval Deemed approved Deficient final report Deficient progress report Deficient investigator report Disapproval Request extension of time to respond to FDA Request meeting |
| ☐ Emergency use: ☐ Notification of emergency use ☐ Additional inform | [[ation | t submission: Current investigator Annual progress Site waiver limit reached Final | ☐ IOL submissions only: ☐ Change in IOL style ☐ Request for protocol waiver |

FOI - Page 28 of 83

Japoney 19, 1995

| SACTION I | | Product | Classification | | |
|---|---|---|-----------------------------|--------------------------------|---------------------------------------|
| Section C Product code: | 80 FPA | C.F.R. Section: | 80.5440 | Device class: | Class II |
| Classification pane | d: General Hosp | oital and Pers | sonal Use Device | Class III | ☐ Unclassified |
| | | | n 510(k) Submissio | | |
| Product codes of d | evices to which subst | ntial equivalence is claimed: | | Summary of, or s | statement concerning, veness data: |
| 1 80 FPA | 2 80 FRN | 3 | | ∑ (510(k) € | ummary attached |
| 5 | 6 | 7 | 8 | ☐ 510(k) s | statement |
| Information on de | vices to which substan | ntial equivalence is o | claimed: | | |
| 510(k) Number | Trad | e or proprietary or n | nodel name | Ma | nufacturer |
| 1 K884505 | 1 Patient Co | ontrol Module | | ¹ Baxter He | althcare Corp. |
| ² K935811 | ² Bolus Disp | penser | | ² I-Flow Co | rp. |
| 3 | 3 | | | 3 | |
| | | | | 4 | |
| 4 | 4 | | | | |
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| Section E Common or usual Set, Admi Paragon B 2 | Product name or classification nistration, Ir | n name: ntravascular ietary or model nam | | Applications Mo 1 2 3 | |
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| Section F | M | anufacturing / Packagi | ng / Sterilizs | tion Sites | | |
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| Company / Institution | name: I-I | Flow Corporation | | | | |
| Division name (if appl | rision name (if applicable): Phone number (include area code): (949) 206-2700 ext. 2 | | | | | |
| Street address: | 202 Windı | ow Drive | | FAX numbe (949) 2 | r (include area code): 06-2603 | |
| City: Lake For | est | State / Province: CA | Country: U | S.A. | ZIP / Postal Code: 92630 | |
| Contact name: | bert J. H | Bard, Esq., R.A.C. | | | | |
| Contact title: | ce Presid | lent of Regulatory an | nd Legal Af | fairs | | |
| ☐ Original ☐ Delete | | lishment registration number: | ☐ Manufactu | ırer | ☐ Contract sterilizer ☐ Repackager / relabeler | |
| Company / Institution | name: | | | | | |
| Division name (if appl | icable): | | | Phone numb | er (include area code): | |
| Street address: | ldress: | | | FAX number (include area code): | | |
| City: | | State / Province: | Country: | | ZIP / Postal Code: | |
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| Division name (if appl | icable): | | | Phone numb | er (include area code): | |
| Street address: | | | | FAX number | r (include area code): | |
| City: | | State / Province: | Country: | | ZIP / Postal Code: | |
| Contact name: | - | | | | | |
| Contact title: | | | | | | |

Jacobery 19, 1995

| | # 27 명 () 15 | FDA Document Number: | | | | | |
|--|--|----------------------|--|-----------------------------|--|--|--|
| Section G | Applicant | or Sponsor | | | | | |
| Company / Institution name: I-Flow Corporation | | | FDA establishment registration number: 2026095 | | | | |
| Division name (if applicable): | | | Phone number (include area code): (949) 206-2700 ext. 2670 | | | | |
| Street address: 20202 Windrow Drive | | | FAX number (include area code): (949) 206–2603 | | | | |
| City: Lake Forest | State / Province: CA | Country: | S.A. | ZIP / Postal Code: 92630 | | | |
| Signature: | 13,0 | | | | | | |
| Name: Robert J. Bard, Esq., R.A.C. | | | | | | | |
| Title: Vice President of Regulatory and Legal Affairs | | | | | | | |
| Section H Submission correspondent (if different from above) | | | | | | | |
| Company / Institution name: | | | | | | | |
| Division name (if applicable): | | | Phone number (include area code): | | | | |
| Street address: | | | FAX number (include area code): | | | | |
| City: | State / Province: | Country: | | ZIP / Postal Code: | | | |
| Contact name: | <u> </u> | | | | | | |
| Contact title: | and the second s | | | | | | |

Your voluntary completion of this Premarket Submission Cover Sheet will not affect any FDA decision concerning your submission, but will help FDA's Center for Devices and Radiological Health process your submission more efficiently. The information you provide should apply only to a single accompanying submission. Please do not send cover sheets for any previous submissions. See the instructions for additional information on completing the cover sheet. If you have a question concerning completion of the cover sheet, please contact the Division of Small Manufacturers Assistance at (800) 638-2041 or (301) 443-6597.



20202 Windrow Drive Lake Forest, CA 92630 (800) 448-3569 (949) 206-2700 Fax (949) 206-2600

Premarket Notification – 510(k)

Via Federal Express **December 30, 1998**

Food and Drug Administration Center for Devices and Radiological Health Office of Device Evaluation Document Mail Center HFZ - 401 9200 Corporate Blvd.

Rockville, Maryland 20850

Reviewing Staff:

In accordance with §510(k) of the Federal Food, Drug, and Cosmetic Act and in conformance with Title 21 CFR §807.81, I-Flow Corporation is submitting this premarket notification for the Paragon Bolus Accessory Set prior to the introduction into interstate commerce for commercial distribution.

I-Flow intends to market an accessory device for the Paragon Infusion System (K923875), originally identified as the SideKick 50 Plus and SideKick 100 Plus. This new accessory will be known as the Paragon Bolus Accessory Set, hereafter identified as the Bolus Accessory. The Bolus Accessory is substantially equivalent to the Patient Control Module (K884505) marketed by Baxter Healthcare Corporation and the I-Flow Bolus Dispenser (K935811).

All questions and/or comments concerning this document should be made to: Robert J. Bard, Esq., R.A.C. Vice President Regulatory and Legal Affairs

> I-Flow Corporation 20202 Windrow Drive Lake Forest, CA 92630 Telephone: 949.206.2700

Fax: 949.206.2600

Sincerely,

Robert J. Bard, Esq., R.A.C.

Vice President Regulatory and Legal Affairs

CM



20202 Windrow Rd. Lake Forest, CA 92630 (800) 448-3569 (714) 206-2700 Fax (714) 206-2600

PREMARKET NOTIFICATION TRUTHFUL AND ACCURATE STATEMENT (As required by 21 CFR 807.87(j))

1

I certify that, in my capacity as the Vice President of Regulatory and Legal Affairs of I-Flow Corporation, I believe to the best of my knowledge, that all data and information submitted in the premarket notification for the Paragon Bolus Accessory Set are truthful and accurate and that no material fact has been omitted.

Robert J Bard, Vice President of Regulatory and Legal Affairs

Name

Title

I-Flow Corporation

Company

Dated

Premarket Notification (510(k) Number)



20202 Windrow Rd. 00

| | Lake Forest, CA | |
|-----------------------|------------------------------------|--|
| I-FLOW CORPORATION | (800) 448-3569 Fax (714) 206-26 | |
| | | |

| 510(k) Number (if known): | | | |
|--|---|---|--|
| Device Name: <u>Paragon Bo</u> | olus Accessory Set | | |
| Indications for Use: | | | |
| The Paragon Bolus upon demand by the | s Accessory Set is intend he patient or healthcare p | ed to deliver fixed boluses of medication provider. | |
| The routes of adm subcutaneous. | The routes of administration are intravenous, epidural, intramuscular and subcutaneous. | | |
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| Concurren | nce of CDRH, Office of De | evice Evaluation (ODE) | |
| Prescription Use | OR | Over-The-Counter Use | |

(Optional Format 1-2-96)

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| 4.0 | BIOLOGICAL SPECIFICATIONS | Page | 6 |
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Appendix A – Paragon Bolus Accessory Set Drawings

Appendix B – Paragon Bolus Accessory Set Labeling

Appendix C - Predicate Labeling

Baxter Patient Control Module

Appendix D – Reference Labeling

• I-Flow Paragon Infusion System

Appendix E – Summary of Safety and Effectiveness

. 34

1.0 GENERAL INFORMATION

1.1 Purpose of Submission

- 1.1.1 This submission is intended to notify the Federal Food and Drug Administration that I-Flow Corporation intends to market an accessory device for the Paragon Infusion System (K923875), originally identified as the SideKick 50 Plus and SideKick 100 Plus. This new accessory will be known as the Paragon Bolus Accessory Set, hereafter identified as the Bolus Accessory. No change will be made to the existing Paragon pump or administration sets.
- 1.1.2 Trade Name: Paragon Bolus Accessory Set
- 1.1.3 Common Name: Bolus Accessory Set
- 1.1.4 Classification Name: Set, Administration, Intravascular
- 1.1.5 Product Code: 80 FPA
- 1.1.6 Device Classification: Class II, 880.5440
- 1.1.7 Classification Panel: General Hospital and Personal Use Device

1.2 Statement of Equivalence

1.2.1 The Bolus Accessory is substantially equivalent to Patient Control Module (K884505) marketed by Baxter Healthcare Corporation and the I-Flow Bolus Dispenser (K935811).

1.3 Overview of the Existing Paragon Infusion System

1.3.1 The Paragon Infusion System consists of two main components, the Paragon pump and administration set. This premarket notification proposes a new accessory for use with the Paragon Infusion System, i.e. the Bolus Accessory. No change will be made to the existing Paragon pump or administration sets.

1.3.2 The Paragon Pump

- 1.3.2.1 The Paragon pump consists of two cylindrical shells. The top half of the pump has (b) (4) (b)(4) (b)(4) of the bottom half of the pump.
- The top incorporates a (b) (4(b)(4) which applies a load to the pliable drug bag. The load is applied to the drug bag by way of (b) (4) (b)(4) mechanism. The (b) (4) (b)(4) creates a near constant pressure in the drug bag.
- 1.3.2.3 The bottom half of the pump is slotted to allow for positioning of the administration set.
- 1.3.2.4 When the top and bottom halves of the pump are fully together, the (b) (4(b)(4) contacts the drug bag and acts as the pressurizing element.



- 1.3.3 The Paragon Administration Set
 - 1.3.3.1 The Paragon administration sets consist of a PVC drug bag attached to the administration line.
 - 1.3.3.2 Each administration set has either flow control tubing or orifice to regulate the flow rate to the patient.
 - 1.3.3.2.1 The delivery time characteristic is derived from the flow rate of the device which is in turn approximated by (b) (4) (b) (5)

```
(b) (4), (b) (b) (4), (b) (5) (b) (4), (b) (5) (b) (4), (b) (5)
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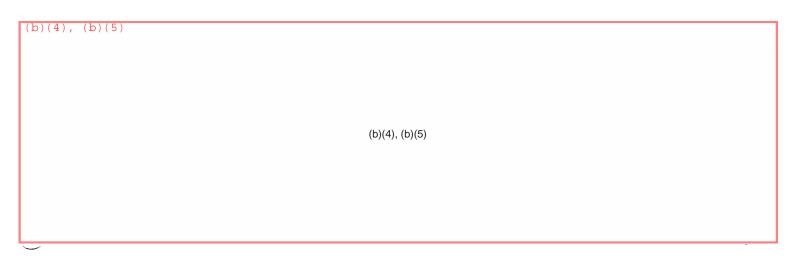
equation provides an approximation of the actual delivery time.

2.0 PHYSICAL SPECIFICATIONS AND DESCRIPTIONS

2.1 Description of the Bolus Accessory

Wherever the Paragon pump and administration set are mentioned, they may be replaced by any constant 6 psi pressure system. See Appendix A for drawings.

- 2.1.1 The Bolus Accessory may connect to any Paragon administration set to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 2.1.2 The Bolus Accessory consists of plastic housing, medication reservoir, bolus button activator and wrist bands.
- 2.1.3 The bolus button allows patient controlled administration of medication as needed.



Top View

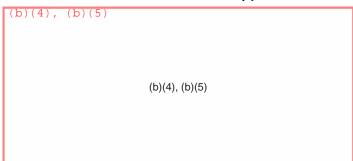
Side View

2.2 Bolus Refill Cycle (i.e. Lockout Time)

- 2.2.1 The Paragon pump is the pressure source pushing fluid into the inlet port of the Bolus Accessory.
- 2.2.2 The flow control orifice of the Paragon administration set establishes a lockout period during which the patient cannot receive another full bolus of medication.
 - 2.2.2.1 The time required to fill the bolus cavity is called the "lockout time" or "refill cycle".
 - 2.2.2.2 Lockout times vary according to the flow rate of the Paragon administration set. See table below.

| Flow Rate of | Lockout |
|--------------|---------|
| Paragon Set | Time |
| (ml/hr) | (min.) |
| 0.5 | 70.0 |
| 1.0 | 35.0 |
| 2.0 | 18.0 |
| 4.0 | 9.0 |
| 10 | 3.6 |

The lockout time is approximated as follows:



- 2.2.3 As fluid flows into the bolus cavity, the diaphragm is continuously displaced until the cavity is full.
 - 2.2.3.1 As a safety feature, the bolus cavity is filled non-linearly, slower in the beginning and more rapidly towards the end of the refill cycle. See chart #6 for the pressure profile.
 - 2.2.3.2 The bolus reservoir is 0.5 ml volume.

2.3 Bolus Activation

- 2.3.1 On the opposite side of the diaphragm is a bolus button. The button moves with the diaphragm as it is displaced.
- 2.3.2 At any time while the bolus cavity is filling, the button can be activated by the user. Only when the bolus cavity is full will the patient receive the entire bolus.
- 2.3.3 When the button is activated, the fluid in the bolus cavity is pushed out and forced through a check valve. At this point, the refill cycle begins.

2.4 **Product Configuration**

Bolus Accessory Model

2.4.1 B000000: 0.5 ml bolus volume.

2.5 Components and Materials

No change will be made to the Paragon pump or administration set. The Paragon pump and administration set components remain the same as K923875.

The Bolus Accessory is a disposable device intended for single patient use.

| THE DO | ius Accesse | by is a disposable device interiord for enight patient deci |
|--------|-------------|--|
| 2.5.1 | Non-fluid | path components (bolus component only) |
| | 2.5.1.1 | Bolus Button: (b) (4), (b) (5) (b)(4), (b)(5) |
| | 2.5.1.2 | Outer Housing: (b) (4), (b) (5) (b)(4), (b)(5) |
| | 2.5.1.3 | Luer Cap: (b) (4), (b) (5) (b)(4), (b)(5) |
| 2.5.2 | Fluid path | components (bolus component only) |
| | 2.5.2.1 | Inner Housing: (b) (4), (b) (5)(4), (b)(5) |
| | 2.5.2.2 | Diaphragm: (b) (4), (b) (5)(4), (b)(5) |
| | 2.5.2.3 | Check Valve: (b) (4), (b) (b)(4), (b)(5) |
| | 2.5.2.4 | Male Luer Adapter: (b) (4), (b) (b) (4), (b)(5) or equivalent. |
| | 2.5.2.5 | Female Luer Adapter: (b) (4), (b) (b) (4), (b)(5) or equivalent. |
| | 2.5.2.6 | Tubing (Make-up): (b) (4) (b) (4), (b) (5) |
| | 2.5.2.7 | Solvent Bonding: (b) (4), (b) (5) (b)(4), (b)(5) |
| | | (b) (4), (b)(3), (b)(5) or equivalent. |

2.6 Power Requirements

2.6.1 The Bolus Accessory is a mechanical device that requires no external power to operate.

3.0 OPERATIONAL SPECIFICATIONS AND DESCRIPTIONS

3.1 Standard Operating Conditions:

Bolus Volume:

0.5 ml

Refill Time:

variable

Priming/Residual Volume:

<=4 ml

Operating Temperature:

90 ± 2°F

Calibration Solution:

0.9% NaCl

Operating Pressure:

6.0 psi pressure source

Head Height:

0"

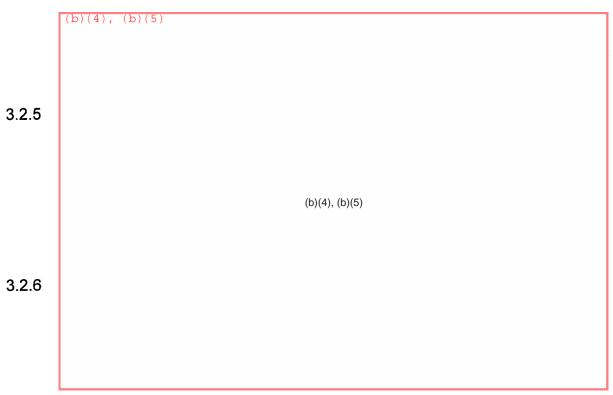
Accuracy:

bolus volume: ±10% at 95% confidence interval at

the identified lockout times.

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| 3.2 | Performance Data: | (b)(4), (b)(5) |
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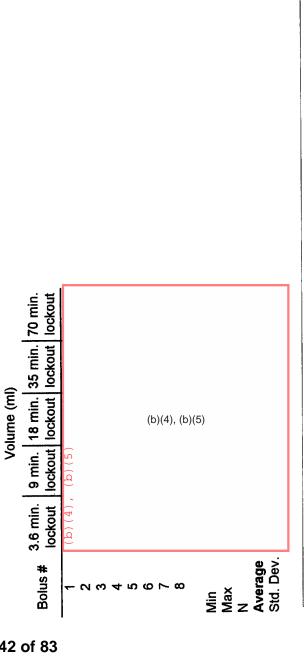
3.3 Safety/Alarm Functions

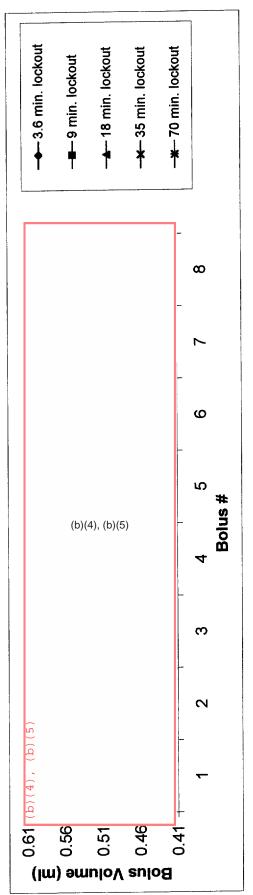
- 3.3.1 The Bolus Accessory will not be recommended for any application that exceeds the minimum internal pressure of the system.
- 3.3.2 If for any reason the patient needs to stop his or her infusions, each administration set is supplied with a pinch clamp to stop the infusion.
- 3.3.3 This device contains no alarms or indicators for flow other than visual.
- 3.3.4 This device contains no alarms or indicators to detect air in line or an occlusion; however, each set may include an integrated air-eliminating filter.
- 3.3.5 The non-linear refill adds additional patient safety if the bolus button is activated prior to the lockout time.

4.0 BIOLOGICAL SPECIFICATIONS

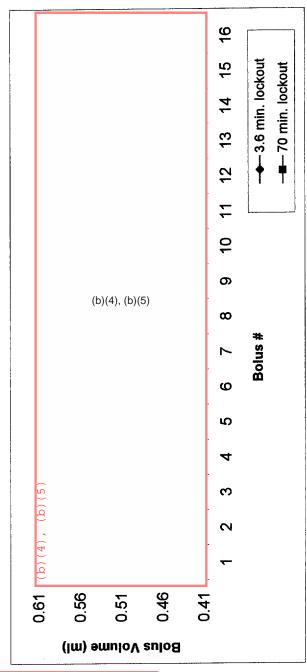
- 4.1 Biological testing is in conformance with ISO 10993 Part 1 for all fluid path components.
- 4.2 The Bolus Accessory is categorized as follows:
 - 4.2.1 Device Category: External Communicating Device.
 - 4.2.2 Body Contact: Blood Path, Indirect
 - 4.2.3 Contact Duration: Prolonged

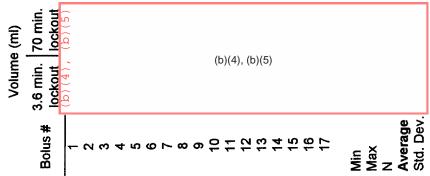
Chart #1
Bolus Accessory
Bolus Volume Accuracy
various lockout times





Bolus Accessory
Bolus Volume Accuracy
3.6 and 70 min. lockout



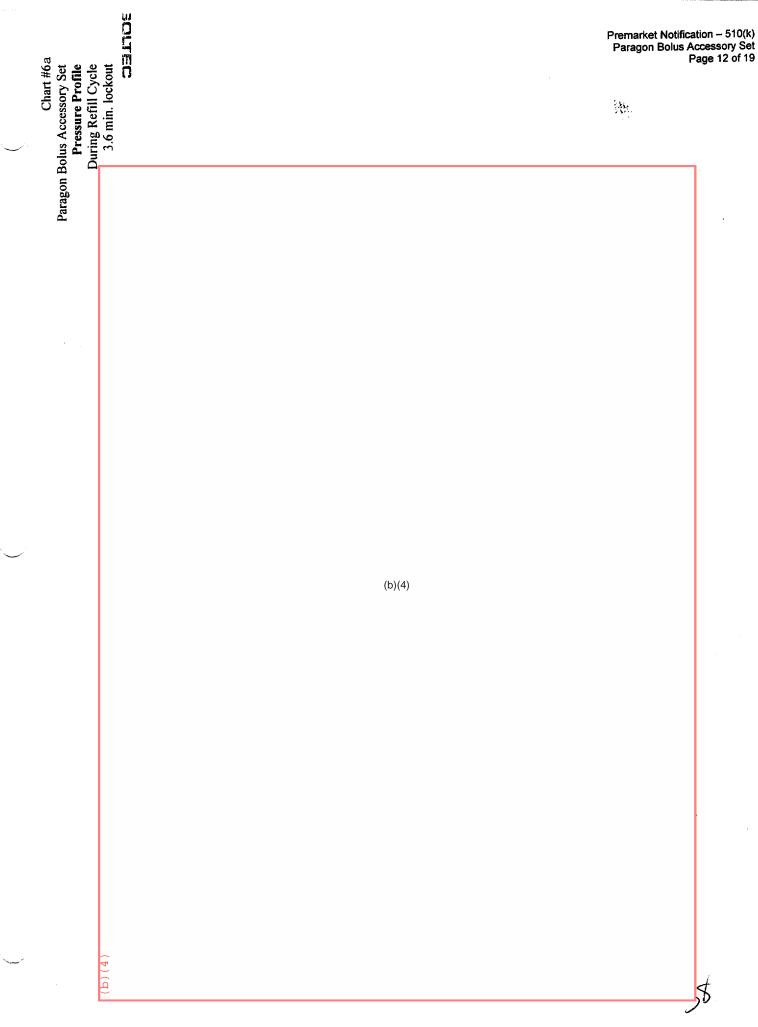




(b)(4)

Chart #5
Bolus Accessory
Bolus Refill Time Accuracy
Life Test

(b)(4)



7·4·

Chart #6b
Baxter Patient Control Module
Pressure Profile
During Refill Cycle (b)(4)

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5.0 CHEMICAL AND DRUG SPECIFICATIONS

- 5.1 Compatibility
 - 5.1.1 There are no specific drugs referenced in the labeling for the Bolus Accessory.
 - 5.1.2 The Bolus Accessory is intended for general purpose drugs and pain medication.
- 5.2 Drug Stability
 - 5.2.1 There are no specific drugs referenced in the labeling for the Bolus Accessory.

6.0 INTENDED USE

- 6.1 The Bolus Accessory is intended to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 6.2 The routes of administration intravenous, epidural, intramuscular and subcutaneous.
- 6.3 The Bolus Accessory is not intended for continuous delivery.
- 6.4 The Bolus Accessory is single patient use only.
- 6.5 The Bolus Accessory is suitable for use as an ambulatory device and is intended for use in the hospital, home environment or alternative care sites.
- No testing has been conducted to determine the efficacy of Bolus Accessory for the delivery of blood, blood products, lipids or fat emulsions. The Bolus Accessory is not intended for the delivery of blood, blood products, lipids or fat emulsions.

7.0 LABELS AND LABELING

- 7.1 I-Flow Corporation believes the proposed labels and labeling, where appropriate, meets the requirements of 21 CFR Part 801 as it relates to a determination of intended use and adequate directions for use.
- 7.2 The Bolus Accessory Directions for Use labeling:
 - 7.2.1 Provides comprehensive directions for preparation and use for the Bolus Accessory.
 - 7.2.2 Describes the routes of administration as it relates to intended use.
 - 7.2.3 Contains warning information.
 - 7.2.4 Contains the prescription statement required under 801.109 (b)(1).
 - 7.2.5 Includes the specifications of the Bolus Accessory. The specifications include the priming volume, residual volume, accuracy and operating conditions.
- 7.3 Identification labels and labeling
 - 7.3.1 I-Flow has developed product identification labeling for the Bolus Accessory. Refer to Appendix B for examples.
- 7.4 Packaging labels
 - 7.4.1 Contains the prescription statement required under 801.109 (b)(1).

7.5 Appendix C contains predicate labeling for the Patient Control Module marketed by Baxter Healthcare Corporation.

8.0 STANDARDS

8.1 There are currently no standards established for mechanical PCA infusion devices.

9.0 PACKAGING

- 9.1 The Bolus Accessory is packaged in a sealed Tyvek pouch, 12 pouches per case.
- 9.2 Packaging is suitable for radiation or ETO sterilization.
- Package aging tests have been conducted on the Tyvek pouch. The results of testing has determined that the Tyvek pouches used to package the disposable Bolus Accessory maintains sterility in excess of three years.

10.0 STERILIZATION

- 10.1 The method of sterilization is gamma radiation (cobalt 60).
- 10.2 Sterilization validation methodology is by ANSI/AAMI ST32-1991 / EN552 Method 1 for gamma radiation.

10.2.1 (b) (4)

- 10.3 The sterile product under review here will have a sterilization assurance level (SAL) of 10⁻⁶. Under AAMI Method 1 for Gamma sterilized product, no sterility test is required.
- 10.4 The Bolus Accessory is labeled pyrogen free and is tested for pyrogens using either the USP Rabbit Pyrogen Test or LAL test methods.
 - 10.4.1 I-Flow products have been validated for LAL testing.
 - 10.4.2 Either method may be used.

11.0 COMPARISON TO LEGALLY MARKETED DEVICES

See Table 1 that follows this section for more specific information.

11.1 Intended Use

- 11.1.1 The Bolus Accessory , the Baxter Patient Control Module and the I-Flow Bolus Dispenser have the same intended use:
 - 11.1.1.1 To deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 11.2 Descriptions of the Paragon Bolus Accessory

Wherever the Paragon pump and administration set are mentioned, they may be replaced by any constant 6 psi pressure system.

- 11.2.1 The Bolus Accessory may connect to any Paragon administration set to deliver fixed boluses of medication upon demand by the patient or healthcare provider. The Bolus Accessory does not deliver continuous medication.
- 11.2.2 The Bolus Accessory consists of plastic housing, medication reservoir, bolus button activator and wrist bands.

- 11.2.3 Bolus Refill Cycle (i.e. Lockout Time)
 - 11.2.3.1 The Paragon pump is the pressure source pushing fluid into the inlet port of the Bolus Accessory.
 - 11.2.3.2 The flow control orifice of the Paragon administration set establishes a lockout period during which the patient cannot receive another full bolus of medication.
 - 11.2.3.3 The time required to fill the bolus cavity is called the "lockout time" or "refill cycle".
 - 11.2.3.4 Lockout times vary according to the flow rate of the Paragon administration set. See table below.

| Flow Rate of Paragon Set | Lockout Time |
|--------------------------|--------------|
| (ml/hr) | (min.) |
| 0.5 | 70.0 |
| 1.0 | 35.0 |
| 2.0 | 18.0 |
| 4.0 | 9.0 |
| 10 | 3.6 |

- 11.2.3.5 As fluid flows into the bolus cavity, the diaphragm is continuously displaced until the cavity is full.
 - 11.2.3.5.1 The bolus cavity is filled non-linearly, slower in the beginning and more rapidly towards the end of the refill cycle.
 - 11.2.3.5.2 The bolus reservoir is 0.5 ml volume.

11.2.4 Bolus Activation

- 11.2.4.1 On the opposite side of the diaphragm is a bolus button. The button moves with the diaphragm as it is displaced.
- 11.2.4.2 At any time while the bolus cavity is filling, the button can be activated by the user. Only when the bolus cavity is full will the patient receive the entire bolus.
- 11.2.4.3 When the button is activated, the fluid in the bolus cavity is pushed out and forced through a check valve. At this point, the refill cycle begins.
- 11.3 Comparison to the Baxter Patient Control Module.
 - 11.3.1 The Baxter Patient Control Module is very similar to the I-Flow Bolus Accessory.
 - 11.3.2 The Patient Control Module may connect to any Baxter Infusor to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
 - 11.3.3 The Patient Control Module consists of plastic housing, medication reservoir, bolus button activator and wrist bands.
 - 11.3.4 Bolus Refill Cycle (i.e. Lockout Time)

- 11.3.4.1 The Baxter Infusor is the pressure source pushing fluid into the inlet port of the Patient Control Module.
- 11.3.4.2 The time required to fill the bolus cavity is called the "lockout time" or "refill cycle".
- 11.3.4.3 Both the Patient Control Module and the Bolus Accessory determine the lockout time by the flow control orifice of the device they attach to. During the lockout time, the patient cannot receive another full bolus of medication.
- 11.3.4.4 Lockout times vary according to the flow rate of the Baxter Infusor. See table below.

| Flow Rate of Baxter Infusor | Lockout Time |
|-----------------------------|--------------|
| (ml/hr) | (min.) |
| 0.5 | 60 |
| 2.0 | 15 |
| 5.0 | 6 |

- 11.3.4.4.1 The bolus cavity is filled linearly as opposed to non-linearly for the Bolus Accessory. See Charts #6a and #6b.
- 11.3.4.4.2 The bolus reservoir is the same as the Bolus Accessory (i.e. 0.5 ml volume).

11.3.5 Bolus Activation

- 11.3.5.1 For both the Baxter device and the Bolus Accessory, at any time while the bolus cavity is filling, the button can be activated by the user. Only when the bolus cavity is full will the patient receive the entire bolus.
- 11.3.5.2 When the button is activated, the fluid in the bolus cavity is pushed out and forced through a check valve. At this point, the refill cycle begins.
- 11.4 Comparison to the I-Flow Bolus Dispenser
 - 11.4.1 The I-Flow Bolus Dispenser is a stand alone device that does not need to connect to an infusion pump such as the Paragon pump for the Bolus Accessory and the Baxter Infusor for the Patient Control Module.
 - 11.4.2 The Bolus Dispenser consists of a reusable plastic dispenser, disposable medication reservoir (plastic syringe or mini-bag) and disposable administration set.

11.5 Specifications

11.5.1 The Bolus Accessory, the Baxter Patient Control Module and the I-Flow Bolus Dispenser have similar bolus volumes and lockout times. See Table 1.

11.6 Materials

- 11.6.1 All fluid path materials of the Bolus Accessory are in conformance with ISO 10993 Part 1.
- 11.7 Based upon the data presented in this section 11.0 and Table 1, I-Flow
 Corporation has determined that the Bolus Accessory is substantially equivalent to the named predicate devices.

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Table 1
Comparison to Legally Marketed Devices

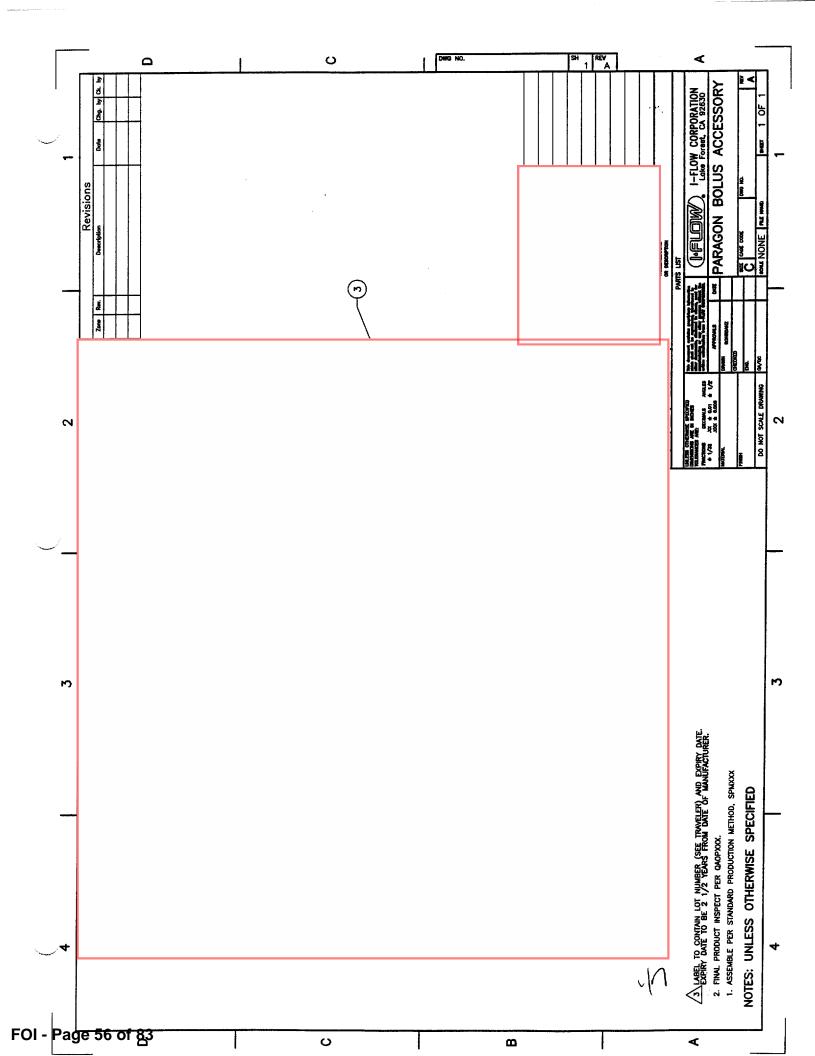
| Comparison Element | Paragon Bolus Accessory Set (subject device) | SE¹ Baxter Patient Control Module (K884505) | SE¹ I-Flow Bolus Dispenser (K935811) |
|--------------------------|--|--|---|
| Intended Use | To deliver fixed boluses of medication upon demand by the patient or healthcare provider. | To deliver fixed boluses of medication upon demand by the patient or healthcare provider. | To deliver fixed boluses of medication upon demand by the patient or healthcare provider. |
| Route of Administration | Intravenous, epidural, intramuscular and subcutaneous | Intravenous, epidural, intra-arterial and subcutaneous | Intravenous, epidural, intramuscular and subcutaneous |
| Contraindications | Not intended for delivery of blood, blood products, lipids or fat emulsions. | | Not intended for delivery of blood or blood products. |
| Reuse Capability | Disposable, Single Patient Only | Disposable, Single Patient Only | Disposable, Single Patient Only |
| Description | | | |
| Bolus Volume | 0.5 ml | 0.5 ml | 0.25, 0.5 and 1.0 ml |
| Bolus Lockout Times | 3.6, 9, 18, 35 and 70 min. | variable (6 to 60 min.) | 15, 30, 60 and 120 min. |
| Pump Type | Available for use with any constant 6 psi pressure system such as the Paragon pump and administration set. | Available for use with Baxter Infusor pump | vacuum |
| Pump Volume | 100 ml | 65 ml | 30 ml |
| Power Requirements | None | None | None |
| Pressure Source | Mechanical spring energy of the Paragon Pump | Strain energy of elastomeric membranes | vacuum |
| Fluid Reservoir | PVC drug bag | Elastomeric membranes | PVC drug bag or polypropylene syringe |
| Safety / Alarm Functions | The Bolus Accessory attaches to fixed flow rate tubing which prevents fluid runaway conditions. The non-linear refill adds additional patient safety if the bolus button is activated prior to the lockout time. | The Patient Control Module attaches to fixed flow rate tubing which prevents fluid runaway conditions. | |

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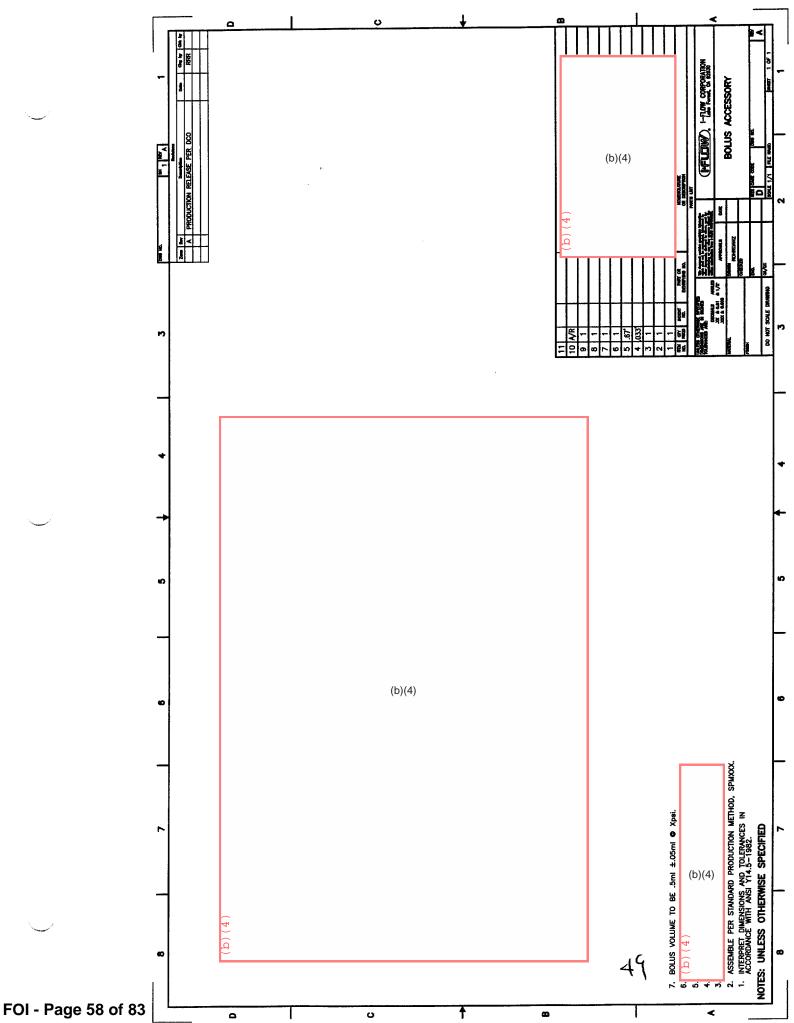
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| | ∞ 3 | Non-fluid Path Components Outer Bolus Housing Bolus Button Luer Cap Pinch Clamp Inner Housing Diaphragm (bolus reservoir) Check Valve Luer Adapters Tubing (make-up) Packaging (sterile pouch) |
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Appendix A
Paragon Bolus Accessory Set
Drawings







Appendix B
Paragon Bolus Accessory Set
Labeling

PARAGON BOLUS ACCESSORY SET

Directions for Use

NOMENCLATURE

- 1. Bolus Accessory Set 1
- 2. Luer Lock 2
- 3. PARAGON Administration Set 6
- 4 Bolus Button 4

INTENDED USE

The Paragon Bolus Accessory Set, in combination with a Paragon Administration Set, is intended to allow patient controlled bolus delivery. The bolus component of the administration set enables fixed boluses to be delivered upon demand by the patient or healthcare provider. The routes of administration include intravenous, epidural, intramuscular and subcutaneous.

DO NOT USE IF PACKAGE HAS BEEN OPENED OR IS DAMAGED OR IF EITHER PROTECTOR CAP IN NOT IN PLACE. THE PARAGON BOLUS ACCESSORY SET IS STERILE AND NON-PYROGENIC.

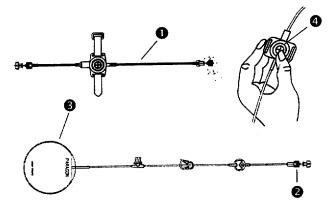
DO NOT RESTERILIZE. SINGLE PATIENT USE.

CAUTION

- Not for blood, blood products, lipids or fat emulsions delivery. It is recommended that the Bolus Accessory Set be changed in accordance with established quidelines.
- Epidural administration of analgesics is limited to use with indwelling catheters specifically indicated for either short-term or long-term analgesic drug delivery. Do not use Y adapter with epidural delivery.
- If the device is to be used for epidural analysesic drug administration, it should be labeled to differentiate from other routes of administration. When using this device for epidural drug administration, make certain only drugs recommended for this route of administration are used.
- The Bolus Accessory Set does not provide basal flow rate. It should be used in conjunction with another infusion line providing a continuous delivery in order to keep the IV line patent.
- 5. Refer to the Directions for Use for the Paragon Administration Set for additional instructions.

THE BOLUS ACCESSORY SET

The Paragon Bolus Accessory Set is designed to allow the patient or healthcare provider to administer a 0.5 ml bolus on demand. The refill time for the bolus depends on the Paragon Administration Set to which the Bolus Accessory Set is attached. See the Refill Time Table for specific refill times.



PRIMING THE ADMINISTRATION SET

- 1. Prime the administration set first.
- 2. Attach the Bolus Accessory Set to the administration set.
- Using appropriate aseptic technique, remove the cap from the Luer lock at the end of the set. Open the clamp on the administration set tubing. The medication will flow into the bolus chamber on the Bolus Accessory Set.
- 4. When the bolus button fills (button rises to top of housing), press the Bolus button to prime. Repeat until air is purged down stream from the bolus housing, which may take several pushes.
- 5. Pinch the clamp closed and replace the cap.

STARTING THE INFUSION

- 1. Attach the Bolus Accessory Set to the infusion site. Secure the bolus housing against the skin, using either the strap provided or tape.
- 2. The Bolus button may be attached to the patient's wrist using the strap provided.
- 3. Opening the clamp on the administration set. A bolus can be delivered immediately.

BOLUS ACTIVATION

- 1. To receive a bolus of medication, press firmly down on the bolus button until it stops.
- 2. At any time during the infusion, the bolus button can be pushed to deliver a bolus of medication.
- 3. The next full bolus will be available after the refill time noted in the Refill Time Table.
- 4. Pressing the bolus button prior to the end of the refill time will result in a partial dose.

IMPORTANT

- Only PARAGON administration sets distributed by I-Flow Corporation are authorized for use with this product. I-Flow Corporation accepts no responsibility for performance, or the liability for damages, caused by the misuse of this product when used with unauthorized administration sets.
- 2. This product uses DEHP plasticized PVC. Certain solutions may be incompatible with the PVC material used in the Bolus Accessory Set. Consult the drug package insert and other available sources of information for a more thorough understanding of possible incompatibility problems.

The PARAGON Bolus Accessory Set Specifications

Bolus Volume: 0.5 ml

Refill Time: 3.6 min. - 70 min., depending on the

attached Paragon Administration Set.

Accuracy:

Bolus Volume: ±10% at 95% confidence interval at the

identified lockout time.

Priming volume: Allow 1 ml for loss during priming. **Residual volume:** Approximately 4 ml (including the

Paragon Administration Set)

NOTES

- 1. Actual refill times may vary from the specified range due to:
 - viscosity and/or drug concentration.
 - temperatures above or below the operating conditions.
 - the positioning of the *PARAGON* Infuser above or below the infusion site.

| Refill | Time | Ta | hla |
|--------|--------|----|-----|
| REIIII | 111116 | 10 | |

| Para <u>Administr</u> | | Refil | l Time |
|--------------------------|-------|-------|--------|
| 0.5 | ml/hr | 70 | min. |
| 1.0 | ml/hr | 35 | min. |
| 2.0 | ml/hr | 18 | min. |
| 4.0 | ml/hr | 9 | min. |
| 10.0 | ml/hr | 3.6 | min. |
| | | | |

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CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a healthcare professional.

For Customer Service Call: 1.800.448.3569 949.206.2700



European Representative: MPS Medical Product Service GmgH Borngasse 20, 35619 Braunfels, Germany



A PRODUCT OF / EINE PRODUKT VON / UN PRODUIT DE / UN PRODUCTO DE CONTENTS / INHALT /

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I-FLOW CORPORATION, LAKE FOREST, CA U.S.A.

REF B000000

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Paragon Bolus Accessory Set 0.5 ml bolus volume











SEE DIRECTIONS FOR USE.
CAUTION: FEDERAL LAW (U.S.A.) RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A HEALTHCARE PROFESSIONAL.

Manufactured by / Hersteller von / Fabrique par / Fabricado por: I-Flow Corporation Lake Forest, CA 92630 U.S.A.



European Representative / Europaische Vertretung / Représentant pour l'Europe / Representante Europeo: MPS Medical Product Service GmbH Borngasse 20, 35619 Braunfels, Germany

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A PRODUCT OF / EINE PRODUKT VON / UN PRODUIT DE / UN PRODUCTO DE

I-FLOW CORPORATION, LAKE FOREST, CA U.S.A.

CONTENTS / INHALT / CONTENU / CONTENIDO:

7

B000000 REF PART NO.

Paragon Bolus Accessory Set

0.5 ml bolus volume



-ake Forest, CA 92630 U.S.A.

Manufactured by / Hersteller von / Fabrique par / Fabricado por: -Flow Corporation



Représentant pour l'Europe / Representante Europeo: MPS Medical Product Service GmbH European Representative / Europaische Vertretung / Borngasse 20, 35619 Braunfels, Germany

Appendix C
Predicate Labeling

Baxter

Infusor Patient Control Module

Description

The Patient Control Module is an accessory for Baxter's Infusors. When the medication demand button of the module is depressed, a small quantity of drug solution is delivered, nominally 0.5 mL. There is no infusion between depressions of the medication demand button.

Depression of the medication demand button empties the 0.5 mL reservoir of the Module. Upon release of the button, the reservoir again begins to fill with medication. The time to fill the Module's reservoir is determined by the Infusor selected. For example:

| Infusor | Flow Rate | Approximate Module Fill Time |
|---------------|-----------|---------------------------------|
| 2C1070/2C1071 | 2 mL/hr | 15 minutes |
| 2C1073 | 5 mL/hr | 6 minutes |
| 2C1080 | 0.5 mL/hr | 60 minutes |
| 2C1954 | 0.5 mL/hr | 60 minutes |
| 2C1955 | 0.5 mL/hr | 15 minutes |

Note: All times reflect use of the Infusor as directed in the individual direction sheet.

Indications and Usage

The Patient Control Module is intended for use with patients in both the hospital and home environment. It is convenient for use by ambulatory or nonambulatory patients. This accessory can only be used with Baxter's Infusors.

Warnings

- To ensure proper performance the device should be used as directed.
- This accessory must be used with Baxter's Infusors to ensure safe operation.
- Do not use if white shipping insert is not affixed to the medication demand button when received.
- Remove white shipping insert prior to connection to patient. Failure to remove shipping insert will cause continuous infusion.

Not intended for use for continuous infusion.

Directions For Filling

Use aseptic technique throughout entire procedure

- A. Standard Method
- Select the Infusor with the desired flow rate. Module filling time determines the maximum number of 0.5 mL doses available per hour.
- Prepare the Infusor per its enclosed direction sheet. The drug concentration should be set so that the unit delivers the maximum dose/hr prescribed by the physician at either the 6.
 or 60 minute dose interval. The patient can then use the Module to titrate the drug within the prescribed limits.

- When the infusor is ready for use, remove the tip protector and winged Luer cap from the Module. Do not remove white shipping insert at this time. Place the male Luer of Infusor into the female Luer of the Module. Note: Avoid touch contamination of the Luer fittings.
- The Module will be primed by the flow of the Infusor. Priming time will depend upon the flow rate of the Infusor selected.
- 5. Observe the reservoir filling through the clear back plate. When the liquid starts to flow from the male Luer, remove the white shipping insert. Failure to remove shipping insert will cause continuous infusion. When the reservoir is filled, depress and release the medication demand button to complete the priming operation and expel any air in the reservoir.
- 6. Replace the winged Luer cap onto the male Luer of the Module.
- Package the entire unit in the Infusor Dispenser Bag for transport to the patient.
- Store in a clean area, protected from sunlight.
 Refer to drug manufacturer's package insert for storage requirements.
- B. Optional Method
- 1. Proceed per standard method above, sections A.1 and A.2.
- 2. When the Infusor is ready for use, remove the tip protector and winged Luer cap from the Module. Remove the white shipping insert from the Patient Control Module. Failure to remove shipping insert will cause continuous infusion. Using a syringe containing a minimum of 2 mL of solution or diluent, attach the syringe to the female Luer of the Module. While filling the Module reservoir, cycle the Module medication demand button as needed to eliminate air in the reservoir or tubing. Disconnect the syringe from the female Luer of the Module.
- Connect the male Luer of Infusor to the female Luer of the Module.
- 4. Proceed per standard method above, sections A.6 through A.8.

Do not store above 38°C (100°F) or in direct sunlight.

Baxter Healthcare Corporation

Deerfield, IL 60015 USA

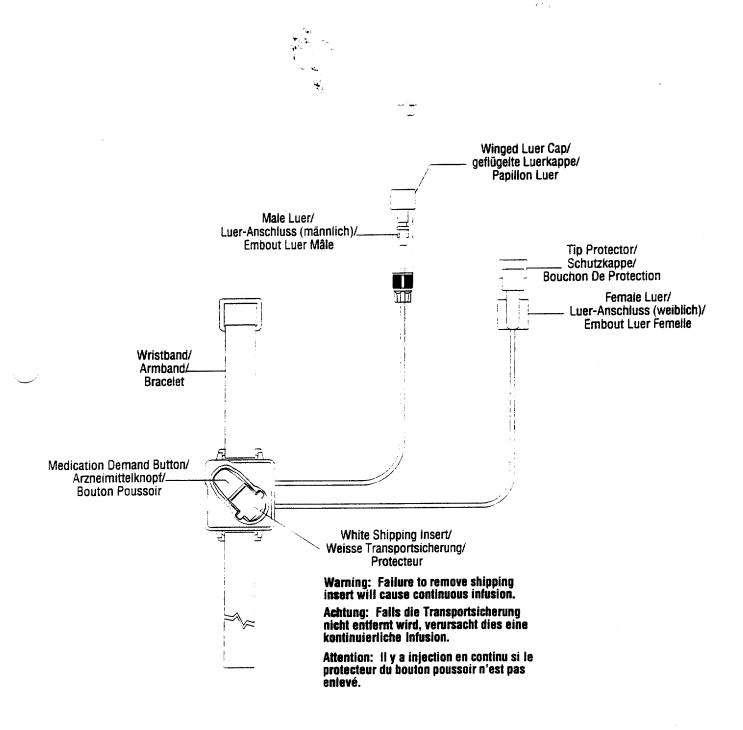
Printed in US.

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7-19-1-628 Rev. March 1992



Infusor Patient Control Module/Module De Contrôle Pour L'Infuseur/Watch



5193 H

To Open Peel Down

2C1079

Baxter

Infusor Patient Control Module

Sterile, nonpyrogenic fluid path.

Do not use if tip protectors are not in place.

The Patient Control Module is intended for use in both the hospital and home environment by ambulatory or nonambulatory patients.

For use with Baxter's infusors only.

Not intended for use for continuous infusion.

Failure to remove shipping insert will cause continuous infusion.

See accompanying directions for use.

Caution: Federal (USA) law restricts this device to sale by or on order of a physician.

Do not store above 38°C (100°F) or in direct sunlight.

Baxter Healthcare Corporation

Deerfield, IL 60015 USA

Made in USA

Patent Pending

Module De Contrôle Pour L'Infuseur C1079

Circuit stérile et apyrogène.

Ne pas utiliser si les protecteurs des extrémités du circuit ne sont pas en place. Vérifier l'intégrité du protecteur de stérilité avant usage.

N'ouvrir qu'au moment de l'emploi.

Mode d'emploi: Voir notice jointe: notamment, ne pas oublier de retirer le protecteur du bouton poussoir sous peine d'obtenir une injection en continu.

Stocker à une température inférieure à 38°C et à l'abri de la lumière.

Ne pas réutiliser—détruire après emploi.

Fabriqué par Baxter Healthcare Corporation, Deerfield, IL 60015, USA Distribué par Baxter S.A. France—Avenue Louis Pasteur—

78311 Maurepas Cedex

Watch 2C1079

Für die bedarfsgesteuerte Therapie (on-demand)

Flussweg ist steril und pyrogenfrei.

Zum einmaligen Gebrauch.

Bei beschädigter Verpackung, gelockerten oder fehlenden Schutzkappen nicht verwenden.

Beiliegende Gebrauchsanweisung beachten.

Nicht über 38°C lagern. Vor direkter Sonneneinstrahlung schützen.

Baxter Deutschland GmbH D-8044 Unterschleissheim

Sterilized by gamma irradiation/Stérilisé aux rayons gamma.

Lot/Numéro de lot/Ch.-B.:/ Manufacture Date:/ Date of sterilization/Stérilisé le/stérilisient:/ Expiration Date/Date de péremption/Verwendbar bis: 8 CC 088

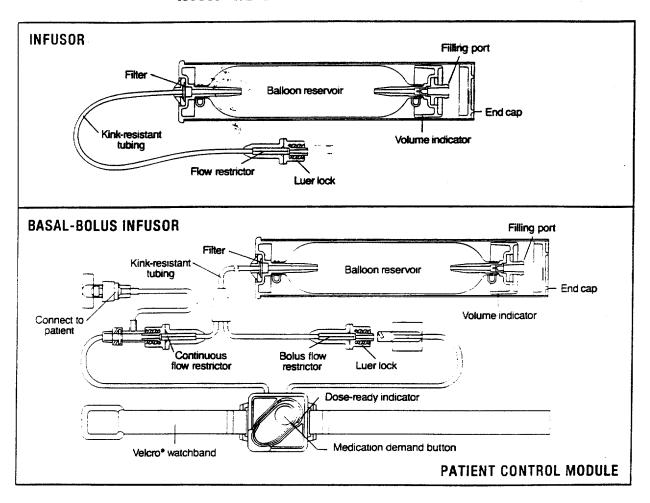
7-7-9-24 90/11

> L016311H/ 04-11-93/ 11-90/00-06-20



PORTABLE INFUSION SYSTEMS

WITH ELASTOMERIC TECHNOLOGY



| Modei | Number | Flow Rate | Lockout Time | Bolus Dose | Capacity | Units Per Case |
|------------------------|--------|--------------------|-----------------|---------------|---------------|-------------------|
| Singleday Infusor | 2C1071 | 2 mL/hr | 15 min* | 0.5 mL* | 6 5 mL | 6 |
| 12-hour Infusor | 2C1073 | 5 mL/hr | 6 min* | 0.5 mL* | 65 mL | 6 |
| Multiday Infusor | 2C1080 | 0.5 mL/hr | | ••• | 65 mL | 6 |
| Basal-Bolus 15 | 2C1955 | 0. 5 mL /hr | 15 min | 0.5 mL | 6 5 mL | 6 |
| Patient Control Module | 2C1079 | | <u>-</u> | 0.5 mL | 0.5 mL | 12 |

[&]quot;When used with Patient Control Module.







^{1.} Carlson RW. Sikic Bl. Continuous infusion or bolus injection in cancer chemotherapy. Ann Intern Med. 1983;99:823-833.

TO TANDER TO EXPOSE ADHESIVE, REMOVE LINER TO EXPOSE ADHESIVE ADHE

DESCRIPTION

lited, the Infusor System operates with a sustained internal pressure. Contents are delivered through a filter and a The Infusor System is a lightweight disposable device that uses a balloon reservoir to infuse medication. When

The Influsor System is designed to provide continuous flow of medication over the influsion period. Flow consistency is optimized when 5% Dextrose Injection (DSW) is used as the final diluent and the one-piece Lucr body is in contact with the skin.

Indications and Usage

The Infusor System is indicated for patients requiring slow, continuous intravenous, intra-arterial, epidural or subculaneous administration of medications. It is convenient for use by ambulatory patients. I is the responsibility of the user to assure that the medication is prepared and administered in accordance with the drug manufacturer's package insert.

Epidural Administration

Epidural administration of analgesics is limited to use with indwelling catheters specifically indicated for either shortterm or long-term analgesic epidural drug delivery. To prevent infusion of drugs that are not indicated for epidural use, do not use administration sets that incorporate injection sites.

It is strongly recommended that Infusors used for epidural drug definery be clearly differentiated from Infusors used lor other routes of administration.

CONTRAINDICATIONS

Not designed for rapid infusion of medications.

- Discard Infusor after single use. The Infusor must not be retilled or resterilized
- Untilled Infusors must be protected from direct surtight and stored at temperatures less than 38°C (100°F).
- Unlittled Inlusors must be filled in accordance with the procedures described under DIRECTIONS FOR FILLING, in order to ensure proper performance.
- 5. Do not use unless solution is clear.
- Do not fill with more than specified amount of solution. See directions accompanying Infusor.
- 7. Do not fill with more than maximum recommended fill volume.

MIXING AND USE INFORMATION

- 1. The Infusor System is a fixed rate device designed to flow at a nominal rate as specified in the labeling of each infusor. The quantity of solution for the Infusor is prepared by diluting the desired dose of drug in the recommended diluent to a volume determined by the desired infusion time.
- 2. Alteration of dosage is achieved by adjustments in concentration rather than flow rate.
- Adhere to drug manufacturer's package insert if drug reconstitution is necessary.
- The medication is prepared by dituling the desired dose of drug in a 60-mL syringe with Luer tip.
- Sodium Chloride Injection (NS) or Ringer's Injection may be used as an alternate dituent, these solutions will The Infusor System is designed to operate using 5% Dextrose Injection (D5W) as the final dituent to provide correct fluid viscosity. When using D5W, the Infusor will flow at the specified nominal rate. Although 0.9% llow at approximately 10% above the nominal rate due to lower solution viscosity ທ່
- When empty, the Infusor will contain a 1 mL residual volume.
- A. The fill volume for the Infusor is computed using the following equation:
 - Using D5W as the final diluent.

(Infusion time x nominal flow rate) + 1 mL* residual volume = fill volume.

(Infusion lime x 1.1 x nominal flow rate) + 1 mL* residual volume = fill volume. Using NS or Ringer's Injection as the final ciluent.

 B. Compensate for the 1 ml. residual volume using the following equation: Desired patient dose x iii volume = 1 in Intusor iii Intusor

For code 2C1082, substitute 2 mLs for residual volume.

U.S. Food and Drug Administration

DETAILED INFORMATION

Device Classification Name: PUMP, INFUSION

Regulation Number: 880.5725

510(k) Number: K884505

Device Name: BASAL/BOLUS INFUSORS Applicant: BAXTER HEALTHCARE CORP.

ROUTE 120 & WILSON ROAD

ROUND LAKE, IL 60073 Contact: PATRICIA S BARSANTI

Product Code: FRN
Date Received: 10/25/88

Decision Date: 07/14/89

Decision: Substantially Equivalent

Classification Advisory Committee: General Hospital

Review Advisory Committee: General Hospital

Statemant/Summary/Purged Indicator: Purged, no summary or statement

Return For Another Search

CDRH Home Page

FDA HOME PAGE

COMMENTS

(Database Updated April 6, 1998)

Appendix D
Reference Labeling
Paragon Infusion System



PARAGON USER'S GUIDE PARAGON HINWEISE FÜR DEN BENUTZER

Directions for Use

- 1. PARAGON Intuser ©
- Fluid Level Indicator @
- 6. Luer Lock @

5. Flow Rate Label @

- 3. 1.2 micron sir-eliminating filter © 7. End of Infusion Indicator ®
- 4. PARAGON Administration Set @

- CAUTION

 Do not use the administration set if the stenie pouch is opened or damaged. If either protective case is measing or not in place, the stenishy of the administration set is no longer guaranteed. Not for blood or blood products delivery. It is recommended that the administration set be changed every 24-48 hours or in accordance with CDC guidelines or institutional policies.
- Do not restantize administration set. Administration sets are into single patient use only. The fluid pathway is stenie and nonpyri

STIPE person.

INTRODUCTION

The PARAGON is a drug delivery system consisting of a resultable med infuser and specially designed administration sets. The PARAGON in precise delivery of medications requaring slow and construction in such as chemotherapsulfice and analysisos. The PARAGON site is medications which require feater delivery, such as antibiotics.

THE PARAGON ADMINISTRATION SET

Administration sets are made of PVC. Each set is approximately 127 cm long.

A12 moren evaluaments liber is built into all administration sets. The flow
rate at which the drug Sows to the pasent is controlled by a flow restrictor
built into the end of the set. Flow rates for each set are printed on the areleminating liter label. ©

- eliminating litter label. ©

 FILLING THE PARAGON IV BAG USE ASEPTIC TECHNIQUE

 Ramove be IV bag with attached administration set from its package.

 Move the flow clastic next to the filling valve and close the claims. ©

 Fill a state symple with the solution to be despensed with the IV bag.

 Connect the to of the symple to the filling valve and enjoct the solution into the IV bag.

 Connect the to of the symple with the solution to be despensed in occasion.

 NOTE: The PARAGON Influer: is desegred to hold a total of 100 mild fluid. The mooram fill youthern is 110 mill, if the amount of stud exceeds 110 million, it may be difficult to engage the threads on the top and bottom of the PARAGON influers.

 Remove air from the IV bag by aspirating with a symple attached to the filling valve. Squeezing the aides of the IV bag when pulling back on the symple will all in removing the air.

 Do not piece tables on the IV bag. Labels may be wrapped around the set.

- LOADING THE N BAG INTO THE PARAGON INFUSER

 1. Trust open the top and bottom naives of the PARAGON Infuser. ©
 2. Battor placing the IV bag into the PARAGON Infuser. Side the tim portion
 of the administration set through the sidt found on the bottom of the
- Before placing the IV bag into the PARAGON intuser, sade the tim portion of the administration set through the sixt found on the bottom of the intuser. (I)

 Center the bag in the bottom and crees all around the edge of the bag to fully seat the bag in the bottom. Make sure there are no winkles in the bag. (I)

 Pull gently on the thick portion of the tubing so that it is fully extended and seated at the bottom of the sixt. (I)

 Twist the top and bottom halves of the PARAGON intuser together until they meet. (I)

- Inwy meet. (g) IMING THE ADMINISTRATION SET Using appropriate seepbe technique, remove the cap from the luer lock at the end of the set. Open the campo on the IV tubing. The medication will flow toward the end of the luer lock. Confirm that Studie is Sowing by conserving the formation of a drop at the end of the luer lock. It may take 10 menutes for a drop to form when priming the 0.3 m/dv set. (g) Planch to claim processed and replace the cap.

- STARTING THE INFUSION

 Attach the administration set to the IV site. Secure the connection against the skin.

 Start the infusion by opening the cigmp on the administration set. The infusion will begin immediately.
- THE FLUID LEVEL INDICATOR

- FPLID LEVEL NDDCATOR
 The window with the markings on the side of the influser is used to estimate how for the influsion has progressed.

 White the PARAGOAN to begin selfled to se appearance of 100-110 mt, the top of the pressure plate with the singhed with the top round marker.

 At the influsion progresses, the plate well move to the bottom marker indicating the beg is nearly empty.

THE END OF THE INFUSION

www.tracevectoristics when at least three (out of the six) small blue dots through the bottom of the PARAGON infuser.

THE CARRYING CASE ng case can be worn on a belt, over the shoulder, or around the

- wasst.

 Place the PARAGON infuser in the carrying case so that the bottom of the infuser can be seen through the clear plastic window.

 Lift the Veloro strip and slide the administration set down so that the set east the carrying case at the administration set down so that the set east the carrying case at the side window opening. © Closs the strap. (Posisoring the infuser in this way allows for the viewing of the Fluid Level infuser.)
- (Posisioning the infuser in this way allows for the viewing of the Fluid Level indicator).

 The front sap of the carrying case into up to reveal a clear plastic window, allowing for the viewing of the End of Infusion Indicator. (i) if necessary, a small lock can be piaced through the larger of the two holes on the appear, and then through the cidth loop on the side of the carrying case. (This may discourage tampering with the infuser during an infusion.)

CARE OF THE PARAGON
The PARAGON Influer is durable and is intended to be used for repeated
orug deliveries. After each battern use, the exposed surfaces, except the
direads, may be wiped clean using isopropyl accord or a 10% bleach solution. NOTE: Do not submerge the PARAGON Infuser in a bleach solution. After creaming, if the PARAGON is difficult to twest together, place a small drop of undreading omtiment (such as K-YY-Jelly no a small section of the threads on the bottom of the infuser. Twest the too of the infuser onto the bottom to spread

Gerbrauchsanweisung

NOMENICLATUR

- 1. PARAGONIntuser @

- 3. 1.2 Millron Filter zur Luftentfernung @
- 5 Fluidente netikett Ø 6. Luar-Anachtus @
- 7. "Ende der Infusion"-Anzeige @

4. PARAGON In ------

ACHTUNG

PUNIO Senutzen Sie des Verebreichungs-Set nicht wenn der stanie Beutel gediffnet oder beschädigt wurde. Wenn ame der Schutzkappen fehlt oder sich nicht en fres Stelle befindet, kann die Steriktät des verebreichtiges-Sets nicht mehr gerantiert, werden, Verebreichtiges-Sets nicht mehr gerantiert, werden, Verebreichtiges-Sets nicht mehr gerantiert, werden, dass die Verebreichungs-Sets siles 24-48 Stunden nach den CDC Richtlinen oder den Verzebrinfan des institutes ausgewendenset werden. Das Verabreichungs-Sets sind mit für siedere Stantlissert werden! Die Verabreichungs-Sets sind nur Für den Einsatz mit ge Einem enzelnen Pellenten beschmit. Der Fildesighsatsphad ist Start und nicht-Pyrogensich.

Einfeitung
Das PARAGON-System int ein Medikamenhersbreichungssystem, das aus
einem wederverwenderen mechannschein stikuer und speziell entwicketen
injektionsseltzen besteht. Das PARAGON-System sorgt für ein exakte
Versbreichung von Medikamenten, de langessel und Analgeelte. Das PARAGON-System dient auch für inkusionen von Medikamenten, die schweiter verabreich
werden müssen, wez 28. Anberokur.

DER PARAGON INJEKTIONSEATZ
Die Injektionessitze werden aus PVC hergestellt. Jeder Satz ist cs. 127 cm ing und enthelte einen 12 Millione Filter zur Luftentfernung. Die Flußrate, mit der das Meldkament dem Palisnen zugeführt wird, und von einem am Ende des Battes entgekann Plufferarition gestauert. Die Flußraten der enzeinen Sätze eind auf dem Eillast am Filter zur Luftentfererung angegeben. ©

FULLEN DES PARAGON IV-BEUTELS - KEMPRENES VERFAHREN 1. Den IV-Beutel mit dem befestigten Injektionesistz aus der Verpad

- Den IV-Sessen mis sein seinerstellen in den - waederholen. Per PARAGON-Influeer isenn bis zu 100 ml Flüsspitert aufnetmen. Der PARAGON-Influeer isenn bis zu 100 ml Flüsspitert aufnetmen. Die massmale Füllmange bestägt 110 ml. Ber mehr als 110 ml Flüsspitert isenn es achweren werden, des Gesende oben und unten am PARAGON einsupseen.

 Die Luft mit hilfe einer em Füllwentil angesetzien Sertize aus dem IV-Beutel absaugen. Ein Drücken auf die Seiten des IV-Beutels, wehrend de Sertize zurückgezogen wurd, beschleungt den Vorgeng.

 Dersuf achten, daß die Kappe weder am Füllwentil angebracht wird. Keine Eilzeite auf den IV-Beutel tielnen, sendem um den fnjerkonssatz wicktein.

- wickeln.

 BETZEN DES IN-BEUTELS IN DEN PARRAGON INFUSER.

 Die obere und untere Hälfite des PARAGON Infusers auseinsnderschrachen.

 Vor dem Plazieren des IN-Bestels in den PARRAGON Infuser den schmalen.
 Teil des Injektionssatzes durch den Schiltz im Boden des Intusers schieben.

 Den Beutel zur die Mitte des Bodens ingen und erstang des Beuteirantes drücken, um dem Beutei im Unterteil zu wechen. Sichestelseln, daß der Bestel keine Unsbenheiten aufweist zur echem. Sichestelseln, daß der Beuteit keine Unsbenheiten aufweist zur echem. Sichestelseln, daß der Beuteit keine Unsbenheiten aufweist zur echem. Sichestelseln, daß der Den dicken Teil des Schlasten vernichtig auf volle Länge gradeziehen und serfichtigen Sitz unten em Schitz prühen.

 Das obere nud untere Teil des PARRAGON-Infusers wieder fest zusammerschrauben.

- STARTEN DER BETABEON

 1. Den Injektionessetz em IV-Zugang beforeigen und den Anschluß sichern.
 Des Verindungsellicht an der Haut beforeigen.

 2. Die Influsion durch Öffnen der Klemme am injektionssatz starten. Die

- DEFLUSSOCETSSTANANCEIGE

 1. Das mit Marbierungen versehene Fernater an der Seite des Influsers id Startenen, we werd die Influsion ungefähr fortgeschnitten ist.
 2. Wenn der PARAGON IV-Beutel mit 100-110 mit veil gefühlt ist, stent die obere Kante der Druckplates an der oberen runden Marbierung.
 3. Mit fortschreitender Influsion bewegt sich die Platte zur unteren Marbierung hin, wes auf einen tast leeren Beutel fernwest.

DAS ENDE DER NIFUSION infusion at komplett, wern mandestens drei (der sechs) klei en am Boden des PARAGON-Infusers zu sehen sind. @

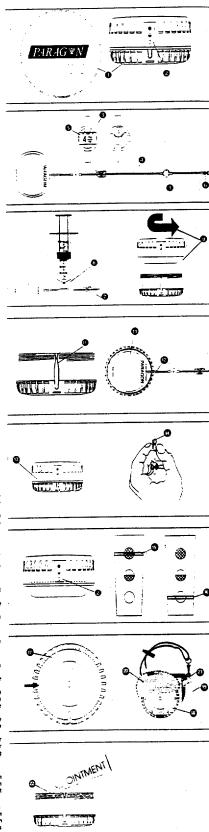
DIE TRAGETASCHE

course he kann am Gürlei, über die Schulter oder um die Hüffe gi

- Fregessche kann noch aus des Grandstanden legen, daß die Unterneteringen.
 Der PARAG ON-Influser so m die Tragetssche legen, daß die Unterneteringen in des influsers auch das durchischliege Plassititierinster zu sehen mit. © Den Verschlüßssreinen Studiesterin en wenne werden werden das Sestenierister ausstant. © Den Verschlüßssreine schließen. (Wird der Influser so positioniert, ist die Pfloseigheitestandsenzunge ermeister.) Die verdere Klappe der Tragetssche ißst sich anweben, damit die Ende der Influser/Anzeige durch des durchsenden Plassifikanster enngesenne werden klann. ® Bei Bedarf kann ein kleines Schlöß durch das größere der zwei Löcher am Reißverschuß und dann durch die Stoffschliefte an der Setts der Tragetssche geführt werden. (Damit kläß sech eine unzulässige Anderung der inkluser-enstellung verhindern.) ©

RESIDENDES PARAGONNIFILISERS
Der PARAGON-Influser ist stabil und zur mehrflechen Verabreichung von Meditamenten vorgeseinen. Nach jeder Verwendung an einem Patenten missen, die außeren Oberflächen, mit Aussissinme der Gewinde, mit Isopropytalkohol oder einer 10%gen Bleichessaung abgewischt werden.

Isopropylationio oder entre i i zygania bedvia mana i i sententia sunt i HINWEIS: Den PARAGON-intuser incht en eine Bleichenidistung eintatun Falls der PARAGON sich nach dem Reinigen nicht gut zusammenschratu Ibld., einen Neinen Troden Schrierepsekt E.B. K. K.YTW Gelb auf einen Niede Tei des Gewindes unten am influser auftragen. Das doere Tei des influsationen, und des beste zu vertraen. 🕁



Modo de empleo

MODO DE EMPLEO

- m PAPAGONO 5. Piloseta del caudal de fixio 🖸 3 Filtro de aire de 1.2 micrones
 4 Tubo de administración PARAGON
 PRECAUCIÓN

 1 Tubo de administración PARAGON
 1 Indicador de la final la perfusion
 PRECAUCIÓN

- PRECAUCIÓN

 No utilica el juego para administrar si la boisa estenitzada se encuentra abierta o deñada. Si la tapa protectora no está o si no se encuentra colocida en su lugar, la estanidad del juego para administrar ya no podrá
- coldense en la registra ser garantizada. No es apropisedo para el sumanistro de sangre o de productos sangueses. Se recomenda que el juago para administrar sea cambilido cada 24 a 48 horas o de acuerdo a las pautas formasadas por el CDC de EE.UU. o de continua institucionales.
- novem o us acuardo e las políticas institucionales. No vuelva a esterilizar el juego para administrar. Los juegos para administrar han sudo fabricados para ser utilizados solamente en un padiente. La via de administración de liquido se encuentra esterilizada y

introducción

El satema de administración de fármacos PARAGON consiste en un caporativo de perfusión mecanico reunitizable y de tubos de administración diseñados especialmente para su usa con el masmo. El sistema PARAGON ficialita la eliministración de mesecamentos cua recurson uma minidación ficialita y continua, tutes como quemotaraciono y anialgeacos. (gualmente se puede utiliza para minidación con de cuentos medicaniemos de que el su para minidación de contra continua de contra
TUSO DE ADMINISTRACION PARAGON
Los tubos de administración estan hecapropristamente 127 em de la contractación TUBO DE ADMINISTRACION PARAGON Los tabos de administracion estata hechos de PVC. Cada tabo tene concernadamenta 127 on de largo, y tene enconoracio un sitro de 12 mioranes ours la eliminación de arte. El farmaco stuya nacio el pecamie con un caudal de funo controlación a través de un reductor de hijo que se encuentra al final del tabo. En la eliqueta del filtro se especifican los caudales de flujo empleados para cada tabo. 🍎

LLEMADO DE LA BOLSA INTRAVENOSA*PARAGON*-USE UNA TÉCNICA ASEPTICA

- A le del paguete la bolsa intravenosa con su tubo de administración
- acopiado Muere la pinza de flujo que esta al lado de la vahiula de lienado y cierre la pinza. [©] Liene una jeringa estárii con la solucion a ser introducida en la bolsa
- ravenosa. unede la punta de la jennos a la válvula de llenado e invecte la solución le bolsa intravenosa. © Si es necesano, vuelva a llenar la jennos y plas el procedimento.
- en la bolas intravenosa. ② Si es necesario. Vuelvir a lientra la granda y reprise el procedimento. Note: Di dispositivo de perfusion PARAGON está diseñado para alimacenar un total de 100 mil de fuelo. El volumen materno de liented es de 110 mil si le candidad de fluolo se mayor de 110 mil, puede sar dificil engranar las resesta de la parta supernor en reinero del PARAGON.
 Saque en arre de la bolsa intravenosa asprándolo con una jeninga conectate a la vánula de lienedo. Puede ayudense apretando los lados de la bellas cuando esta retravendo la peringa. Asegúrase de volver a coccor el sombrarate de la vánula de lienado. No colodus estaguetas en la bolsa intravenosa, es mejor ponerios siradedor del fuelo.

HODO DE CARGA DE LA BOLSA INTRAVENOSA EN EL DISPOSITIVO DE PERFUSION PARAGON

- UFUSIÓN PARAGON Rote las misoes superior e inferior del dispositivo de perfusión PARAGON: ©
- PARAGON (PARAGON PARAGON PARAGON)

 Antes de colocar la botas intravencias en el despositivo de perfusión PARAGON (Paragon Paragon)

 Antes de colocar la botas intravencias en el despositivo de perfusión (PARAGON) (Paragon Paragon P

- nastra que se junten. ©

 CERADO DEL TUBO DE ADMINISTRACIÓN

 1. Usando uma ticonica servicia procesia, rebre el sombrerete del cierre

 1. Usando uma ticonica servicia procesia, rebre el subería intravencia: el farmaco flurá hace el extremo del cierre (Uer.

 El fludo e se está moviendo es se forma una gota del mismo en el extremo del cierre (Uer.) Puede ser necesiano esperar 10 minutos para que la gota del cuando se está ecolando el sistema a 0.5 milár.

 3. Cierre se parza y vuenza a colocar el sombrerete. ®

 1. Indican pel 1. Apuezza servicia.

- INICIO DE LA PERFUSION

 1. Acopie el tubo de administración al sursa de la certualón a
 la conexión la prei.

 2. Abre la pritza del tubo. El fármaco fund automáticam

- 2. Abre le prize del talo. El farmaco tiura automaticamente.

 NINCRADAD PEL, NYEL DEL FLUIDO

 1. La ventanile con merces que se encuentra en le parte lateral del dispositivo de perfusión es utituza para hacer un calculo aproximado de la progresión de perfusión es utituza para hacer un calculo aproximado de la progresión de la perfusión.

 2. Cuando la bolas intravenosa PARAGON es liene a su capacidad de 100-110 m. la parte superior de la baca de presión se alminará com la marcador reducido apprior.

 3. Para la parte superior de la baca de presión se alminará com la marcador reducido apprior.

 3. Para la prize superior de la parte su para la parte su progresión de la parte superior.

 3. Para la prize superior de la parte su para la parte se desplazará si marcador. recurso superior. W
 A medida que la perfusion progresa, la placa se desplazará al marcador del fondo, indicando que la botsa esta casi vacia. ®

FRAL DE LA PERFUSION
La perfusion se na completado cuando si menos tres (de seis) puntos pecaseños azules aparecen en el londo del dispositivo de perfusion PARAGONO.

ESTUCHE PORTATIL

- reseate persitir se puede llevar en un cinturón. Sobre los hombros o reseador de la cintura. Coloque el dispositivo de perfusion PARAGON en el estudne portásti, de manera que el fondo del dispositivo pueda versa e anives de la ventanilla plustica tramperente. O su propositivo de perfusion de manera que éta saloga del estudne a traves de la abertura de la ventanilla plustica trampera de colociar de la ventanilla plustica. Esta manera de colociar el dispositivo de perfusion permite doserver el indicador del niver del fluxdo.

 La sista fronta del situario portati se puedes sizar para mostrar una ventanilla plastica tramperente, so qual permite observar el extremo del indicador de perfusion.

 Si es necesano se ducede colocar un candado pecuaño, hacándolo pesar a traves del adjujero mas grande de la crematilera y del lazo de test que está sin la parte lateral del estudne dels poemanilla y del lazo de test que está sin la parte lateral del estudne dels poemanilla y del lazo de test que está sin la parte lateral del estudne dels poemanillas y del lazo de test que está sin la parte lateral del estudne dels poemanillas y del lazo de test que está sin la parte lateral del estudne dels poemanillas y del lazo de test que está sin la parte lateral del estudne dels poemanillas y del lazo de test que está sin la parte lateral del estudne dels poemanillas y del lazo de test que está sin la parte del se sucune dels poemanillas y del lazo de test que está sin la parte del parte d

- Oertrision).

 © CUIDADD DEL PARAGON

 El ámpositivo de perfusión PARAGON es duradero y está diseñado bara usos entidos de perfusión de farmisco. Desousa se cada luta con un paciente, entidos de perfusión de farmisco. Desousa se cada luta con un paciente, entidos insprientes o con una soulcición de indecidente de la concesta con sobre la sopropiació con un so soulcición de indecidente de sodo del 10%.

 OTÁ: No sumerpa el dispositivo de perfusión PARAGON en insociante de lodo Desousa de introdución de la concesta de la concesta del PARAGON participado
GUÍA DEL USUARIO DE PARAGON GUIDE D'UTILISATION PARAGON PARAGON. GUIDA PER L'UTILIZZATORE

MODE D'EMPLO

- Dispositif de perfu ion PARAGON **©**
- Indicateur de neveau \varTheta

Mode d'emploi

- Filtre à bulles d'air de 1.2 mortin. O
- Tubulura da pertusion PARAGON &

6. Robinet Luer @ 7 Indicateur de fin de pertusion (B)

PRECAUTIONS

- SCAUTIONS

 No pas utitiser la lubulure d'administration si la poche de conditionnement sterité est ouverts ou endommagée. Si l'un des capuchons protecteurs vient à manquer ou n'est pas en place, la stenité de la fubulure d'administration n'est plus grantes.

 Ne pas utiliser le système pour ten perfusions de sang ou de produits sangurai. Les recommande de changer la fubulure d'administration but les les 28 à 48 heures ou conformement aux recommandators de C.D.C.-des. Etts-Lintes ou des prinques de l'abbleurent hospitaler.

 Ne pas restériliser la tubulure d'administration. Les bubulures d'administration sont à usage unique. La voire d'administration du fluide est étatile et spyrogene.

est clárite in synonyminate procession de médicaments composes Le PARAGON est in système d'administration de médicaments composes le descapació de perfusion mecanicale reclatación et de Libulures de persision publicament conques. Le PARAGON permet una administration précisée prédicaments expeant des médicaries tentes et construes, Les que se prédica-triminate acquest des médicaments et parages que la PARAGON sert égalentent à initialer les médicaments demanadant une administration plus rapide, les que

les antibiotiques.

Les labulures DE PERFUSIONPARAGOM

Les labulures de perfusion sont en C.P.V. Chaque dispositif fait erwir

mé sing. I un filtre d'élimination des bulles d'air de 1.2, micron est mé
à toutes les fabulures de perfusion. Le débit d'écouement du mandie

vers le pesent est contrôté par un système de limitation qui della mégir

attrémité de l'apparent. Le débit de chaque dispositif est indique sur fét

du stire d'élimination d'air. Be

- IN UNISAGE DE LA POCHE DE PERFUSIONPARAGON-LITILISER DES MACULES ASEPTIQUES Déballer la boche de perfusion munie de sa tubulure de perfusion. Placor le camo d'ecculement près de la value de rampissage et ferinar la
- er une senngue stèrile de la solution à injecter dans la poche de
- Cherris. We sennique stérilé de la solution a injective une sennique stérilé de la solution a injective de la servique à la valve de remoissage et rijecter la solution dans la poche de perfusion. (② Remoir à nouveau la servique la solution dans la poche de perfusion (O Remoir à nouveau la servique la solution de la poche de perfusion PARAGON été compu pour content manument de solution de perfusion PARAGON été compu pour content manument et 100 mil de inquate. Le volume de rempissage manument manument de 100 mil de inquate de conque pour de la manument de 100 mil de inquate de compusion de compusion de la compusion de la poche de perfusion or avertice de service de la manument de la poche de perfusion or avertice de la poche de la perfusion de la poche de la valve de la poche de perfusion de la poche - de perfusion au moment du recent de la company de la compa

CHARGEMENT DE LA POCHE DE PERFUSION DANS LE DISPOSITIF DE PERFUSION PARAGON.

- ARROBERT DE LA POCHE DE PERTUSANO MAS LE DISTANTI DE LA PRESIDIO PARAGOM.

 Desserrer les deux montés du haut et du bas du disposité de perfusion PARAGOM.

 Avant de placer la poche de perfusion dans le disposité de perfusion de l'acceptant de président de l'acceptant le perfusion de l'acceptant de perfusion de l'acceptant de perfusion de l'acceptant de perfusion de l'acceptant de poche dans la partie inférieure de laposaté de perfusion de l'acceptant de la poche dans la partie inférieure de la poche dans la partie inférieure de la poche della poche della poche della poche de la poche de la poche della poche dell

- PRICE et al las du desposales se version ? Price - Constitute de pertusion. Le médicament devars à écouler en direction de l'extrémite du robret Luer. Confirmer (écoulement du licule en observent la formation d'une gloute de l'extrémité du robret Luer. Avec le deposée de 0.5 mil/11, à faut qualquisions attendre rusqu à 10 mmutes pour qu'une goutte se forme éprès l'emergage. El memorage. El memorage de 10 mmutes pour le termer et remetre la leuristique de l'emp pour le fermer et remetre la leuristique de 10 mmutes pour le camp pour le fermer et remetre la leuristique de 10 mmutes pour le leuristique de 10 mmutes pour le camp pour le fermer et remetre la leuristique de 10 mm de

- MARRAGE DE LA PERFUSION Fixer la subulare de perfusion ou point de ponction. Fixer la conne-comble la Deal. Commencer la perfusion en ouvrant le ciarrio sur la lubulare de perfus La perfusion doit demarrer immédiatement.

MOICATEUR DU NIVEAU DE LIQUIDE

- La lucarne contenent des indicasons sur le côté du discossitif de perfusion ser à estime la progression du déroulement de la perfusion. Lorsquie la poche de perfusion PARAGON est remote dans sa capecité de 100-10 m. le naux de la locaque de presson se troive dans la capecité de la marque crusare du haut. Au fur et à mesura mus en perfusion production production au meutre mus en perfusion production production production au meutre mus en perfusion production production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production production production de la mesura muse en perfusion production pr
- de 100 110 mf. le haut de lui plaque de pression se trouve dans l'alignificent. de la merque corculate du haut. @ Au fair et à mesure que se perfusion progresse, la plaque de pregission descend vers la misrque du bas, malquant donc que la poche est prejeté. vide. @

FIN DE LA PERFUSION Le perfusion del termin bigues sont visibles sou efusion est terminée quand au moins trois (des six) petites passitet le sont visibles sous la base du dispositif de perfusion PARAGON.

LA POCHE DE RANGEMENT La poche de rangement peut se porter à la centure, sur l'épaule, ou auguir de

- Proposition de l'arrigement peut se porter à la cemture, sur l'épaule, ou ausque de tente.

 Prépar le dispositif de pertusion PARAGON dans se poche de rangement de sonte que le base du dispositif de perfusion sont visible au traveir de la lucerne en plassique tentenberent.

 Soulever le bande de Veloro si faire glasser le dispositif d'administration vers le base de onte qui l'ausse sontre de la poche de rangement par l'ouverture du totte. À Refermer la bande de Veloro (Quand le designari de perfusion se trouve dans cette position i, est possible de condustre l'indicateur du niveau de lisuade.)

 Le ribitat evant de la poche de trangement se souleve sur une lucamé en plassique transparant qui permet de consulter l'indicateur de fin de la perfusion.

 Au beson, un cett verrou pout être mitroduit dans le blus nesse.
- perfusion. ©
 Au besom, un pest vernou peut être miroduit dans le plus gros de deux rouis de la fermeture à gissiere, puis au travers du passant en teseu aur le côte de la poche de rangement. (Afin de décourager duiconique vouchaft toucher à le asposatif de perfusion pendant une initusion.)

Istruzioni per l'uso

- Interes PARAGON ®
- 2 Indicatore di livello dei flu
- Filtro debolatore 1.2 u G
- Sat di infusione PARAGON 0

1500

6. Connettore Luer Lock @ 7. Indicatore di fine iniusione (6

AWERTENZE

- VENTENZE

 Non usare il set se la comiezione è aperta o danneggista. Se il cappuccio protettivo manca o non è posizionatio, la stanistà non e garantia.
 Non adizio silla comministrazione di sangue. Si racconanda di sostiture il seti oggi 24-43 ore, o secondo le linee guida CDC, o secondo il protocolo dell'especiale.
- set opracine. Non risteritzzare il set, i set si intendono monopaziente. La via di somministrazione è starte e aprogena.

NTRICOLIZIONE
PARAGON è un asterma per l'imfusione di farmaci costituto da un infusiore paragone medizzabile e da un set di somministrazione deducato. PARAGON consense un accurrata somministrazione di soluzione che note decur un infusione instru e coministra, quali chemicarpor e annagore. PARAGON consense anche ia somministrazione di farmaci che note decurate de infusione come gii a comministrazione di farmaci che note delle valorate di infusione come gii

IMMESTRAZIONE PARAGON Inversitazione sonio in PVC. Clascuna linea è lunga orca 127 cm. è compresso un filtro debolistore da 1.2 μ . Il flusso e controllato da un select all'astrenstà distate del set. Un'etichetta sul filtro indica il flusso

- ser.

 separation DELLA SACCA-USARE TECNICA ASETTICA
 Agrira la confezioria
 Pertitre la ciciarqui cella valvola di riempimanto a chiuderia
 Riempira una siringa starile con la soluzione da trasferre nei set
 Commissione il serifiga alla visionia di nempimanto a restattare la suszione
 sociali S., Riempira nuovamenta la sinniga e ripotere i operazione
 sociali S., Riempira nuovamenta la sinniga e ripotere i operazione

NOTA: la secca è disegnata per un volume totale measure di di volume può rendere difficoltosa la chuaura dell'infusore uma di 110 mil Un accesso

- Rimuowere i ana dalla sacca aspirando con una simpa dalla variola di nergamento. La minazione dell'ani viene ficialità comprimento docemente la sacca si momento di staccare la simiga. Richiudere la variola di nergamento con un tappino.
 Non metare alcuna eschetta sulla sacca, ma eventualmente intorno alla

- Brea. GEZONAMENTO DELLA SACCA NELL'INFUSORE PARAGON
 Svitare compietemente le due part cell'influsore.

 Prime di possiponare le sacca nell'imbarore, meanne si tubo nella fessura
 posta neste meterinore dell'influsore.

 Brace dell'influsore.

 General dell'influsore.

 Gene

- resa. ©
 mischitto DELLA LINEA CI SCRIMMINISTRAZIONE
 uste scrince sedica, logiante il tappo dall'estrencò delle inne. Aprire la
 mp. La soluzione fluiri attravense i destrencò hari coci,
 minerrare il demonstrato di dalla inne vieri coci da tarrazione di una opocia
 delle medi bure incià. Cocomine o il mineto con un set da 0.5 m/h.

 ©
 siuders la clamp e costitura e l'appo luer.

- CONNECTE IN INC.

 Connectere la linea di somministrazione al paziente. Assicurare la commencine alla cutte.
- ma cure. Bione aprendo la ciamp della linea di somministrazione perà immediatamente. Iniziare l'infliei

- NOTICATORE DI LIVELLO DEL FLUIDO

 1. La fineetra, pocta sul lebo dell'influera, con appositi indicatori è usata per estimare se progressione dell'influenza.

 2. Quento se score PARAGON è nempris con 100-110 mi, il bordo supenore del pissione se progressione succione del pissione succione dell'influence, il pissione accurato per all'influence, il pissione accurato per la succione qualità vuolone.

 3. Col procedere dell'influence, il pissione accurato per la succione qualità vuolone.

 50 per la succiona dell'influence dell'influ

ENPRISONE (Assume É complete quando sono visibili simeno tre (dei sei) pallini biu sul do trasparente dell'infusore PARAGON. ()

L'interestre Editionale dell'inflasere PARAGON.

BOREA, PERR L. TRABPORTO
PUÈ assare inditata neste circliur. Insessa è recols. o ritorno ella vita.
Puè assare inditata neste circliur. Insessa è recols. o ritorno ella vita.

1. Peutaurese l'inflasere Principolità della borea in moto chel i fondo responsare la considera della della considera della borea.

1. Peutaurese indicata della della considera della borea considera della borea, previse apparture della sirse velorio.

2. La brese di communicatione della borea considera della borea, previse apparture della sirse velorio.

3. La partie frontate della borea (nessossa del un'aldetta) è in plastica trasperente, visualizzazione con el indicatore di liveri insigenze.

4. Se necessario, is chusura isimpo della borea può essere chiusa con un pieconte accenteti (sceredignando chunque vogise maniporare l'inflasore.

MARITTERCORE DEL PARAGON
L'influsore PARAGON è robusto e concepto per essare utilizzato per motebor nitasiero.

Della possono cassere qualte con alcosti scopropisco o soluzione di pociorno di sodo al 10% nette non emergenza l'inflasore PARAGON nel ilizzatione di socio. Se dopo la 10% nette non emergenza l'inflasore PARAGON nel ilizzatione di socio. Se dopo la 10% nette non emergenza l'inflasore PARAGON nel ilizzatione della socio.

esseria putate con alcool isopropatoo a soluzione di poctorno di sono sa lu Notat: non ammengere l'infusiore pARAGON nell'ipocterito di sodio. Se dicr putaba le due carè dell'infusore si avvitano con fasca, istendere un bo' di lubridicante (son K-Y^{*}) gel) su una pocosia sezione cella filettatura superio distributia navvitando le due parti dell'unitarone. @



City deministration sets distributed by I-Flow Corporation are earthorized for uses with this product. I-Flow Corporation accepts no responsibility for performance, or the liability for demandes, clusted by the misuse of this product when used with unauthorized administration sets.

This product use OEIP plasticized PVC. Cartain solutions may be competite with the PVC material sead on the 1V administration set consult need using being the PVC material sead on the 1V administration for a more than the drug package asset and other averables sources of information for a more thereugh undestanding of possible incompetibility problems. This device contains installar unober lates, individuals with known installar unber lates, individuals with known installar unber lates. Individuals with known installar unber lates, individuals with known installar unber lates. Individuals with known installar

Size: 5.6 cm high; 10.2 cm in diameter

Nt: 260 Gms

Flow Rates: 0.5, 1, 2, 4, and 10 mi/hr

Delivery accuracy: Accuracy is at ±10% at 95% confidence interval.

ing volume: 1.5 ml

idual volume: 5 ml or less

Residual volume: 5 ml or less
NOTES

The infusion rates for each administration set are indicated on the administration rates for each administration set are indicated on the administration rates may vary from the specified range due to:

Actual infusion rates may vary from the specified range due to:

- viscosity and/or drug concentration.

- temperatures above or below the operating conditions.

- the positioning of the PARAGON infuser store or below the IV site.

The Paragon Cruip Delivery System has been calibrated using Normal Saline (NS) as the objectivery System has been calibrated using Normal Saline (NS) as the distant and ston contact temperature (3.2°C, 50°F) as the objective of the paragon System will flow at the expectation may NS and sith temperature the Paragon System will flow the specified from the than the above will affect the normal slow rate. For example, if 5% Dectross (DSW) is used as the final distant, the Paragon System will flow at 10% below the normal rate due to higher solution rescussly.

CAUTION: FEDERAL LAW (U.S.A.) RESTRICTS THIS DEVICE TO SALE.

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

Technische Daten des PARAGONI

Abmessungen: 5.8 cm hoch: 10.2 cm Durchmesser

ht: 260 g

Fluitrate: 0.5; 1; 2; 4; und 10 m/h

Verabraichungsgenauigkeit: Die Genaugkeit liegt bei ± 10% bei einem 95%igen Vertrauensmissvell.

Vortilimenos: 1,5 ml

Rückstandsmenge: Maxi

Manufactures
--Flow Corp
--ake Forest CA 92630
---med in the U.S.A

Vertrater für Europe:

MPS Medicai Product Service GmbH
Eorngasse 20, 35619 Brauntes, Germany 9721

- ETANTE

 Unidea unicamente tubos de administración distribuidos por I-Flow
 Corporation, I-Flow Corporation no asume responsabilidad alguna por
 problemas de fundicimariento o por acinhe causados ectudo a matrato
 de este producto cuando se usa con tubos de administración no
 autorizados.
 Este producto usuaza DEHP de doruro de poinvinto plassificado. Ciertas
 soluciones podra ser incompatibles con el material de doruro de
 polivinto utilizado en el juego para administrar de la intravencia.
 Consulta con las indicaciones podras la casa de la orga y con
 oras fuentes de información descendade para entender con mas detalle
 los posibles problemas de incompatibidad.
 Este aspositivo comben látes de goma natural. Aquellos inciridada
 que surran de sensipilidad al látes de goma no deberan utilizar este
 producto.

Especificaciones del dispositivo de perfusión PARAGON

Tamano: Altura: 5.8 cm: diametro: 10.2 cm

Peso: 260 gr

Flujo: 0.5; 1:2:4: y 10 mi/hr

Precisión en la distribución: La precisión es de ±10% a un intervalo de confanza de 95%.

Volumen de cebado: 1.5 mi

Volumen residual: 5 ml o menos

NOTAS:

- El coesciente de perfusión para cade juego para administrar se encuentra indicado en la esqueta del mismo.
- Los coeácientes de perfusión actuales pueden variar del coeficiente especificado debido a::

 - presiscipo delto al ; viscosidad y o concentración del fármaco, viscosidad y/o concentración del fármaco, temperaturas supenores o intenores a las condiciones de operación, la octocación del disposarvo de perfusión PARAGON por encima o por debajo del punto de perfusión intravenosa.
- debajo del oumo de perhasión intravences.

 El Sistema de Suministro de Drogas Paragon ha sido calibrado utilizando Salinidad Normai (SN) como disuyente y la temperatura de contacto de la piel (32°C, 50°F) como si ambiente operativo. Al lutizar la SN y la temperatura de la piel, al Sistema Paragon fiurir a una razon nominia especifica. La utilización de otros diuventes o temperaturas operativas que no sean las mencionacias antenormente a tecturan la razon nominia de studo Por elembio, si se utiliza un 5% de Destrosa como diuvente final: el Satema Paragon fiurir à un 10% por debajo de la razon nominia debido a la viscosidad de la solución mas alta.

ENTRETIEN DU PARAGON

Le aspositif de perhision PARAGON est solide et solide et a été concu pou
fer utilisse de façon repetée pour des injections de médicaments. Apre chaque patient, il est possible de nettoyer les surfacos visibles, a le ricceptou qui filètige, en les essuvant ravce de la socio insoproprique ou une soution de 10% d'eau de Javel.

REMARQUE: Ne pas tremper le disposref de pertusion PARAGON dans une soution d'eau de Javel.

Remarque: Ne pas tremper le dispositif de perfusion PARÀGON dans une soution d'eau de Javei .

Aorea le nettoyage, si le remontage du PARAGON est dufficile, dacer une petite goute de pommace lubrifainte (telle que de la vassetiné (X.**) sur une petite accono du filetage canne le bas du asposalet de petitueron. Revesser la motité superieure sur la motité inférieure de maniere à Dien étaler la pommade. 30

MPORTANT

- PORTANT

 Ne sont autorises avec ce produit que les tubulares de periusion distribuées par I-Flow Corporation. I-Flow Corporation ne saurait accepter aucune responsabilité our ce que est des performances, re aucurin responsabilité pour ce que set des dommanges causes par une utilisable ne ce produit avec des tubulures de perfusion non autorisées.

 Ce produit est terbinque avec du chicirure de polyvinyris pissisée au OEMP. Certaines acutions medicementeuises pouvent être incompatibles avec le matériau en CPV utilisé dans les dublices pour obtenir. Carsulaire il notice comprise dans le concrisonnement du médicement et toutes les autres acutes de l'information disponsibles pour obtenir le plus de rensegnements possibles aur les protétémes d'incompatibilité éventuels. Ce dispositif comprised du coourbinue manter au latest (i.e. personnes dispositiquées avec une sensibilité naturelle (allergie) au caoutchouc latest dovent a abstann d'utiliser de conduit.

Spécifications du dispositif de perfusion PARAGON

Dimensions: hauteur 5.8 cm; diametre 10.2 cm Poids: 260 Gms

Débit d'écoulement: 0.5; 1; 2; 4; et 10 m/h

Précision de l'administration: La precision est de $\pm 10\%$ dans un intervalle de confiance de 95%.

Volume d'amorcage: 1 5 mi

Volume residuel: 5 mi ou moins

- Les vitesses de perfusion de chaque disposatif d'administration sont indiquées sur l'étiquette du disposatif.

 Les vitesses de perfusion recése peuvent vener par rapport à la gamme specifiée en raison de:

 d'une viscosaté et (ou) d'une concentration du médicierment, de lamperatures auperisurnes ou inférience aux conditions d'utilisation, de lamperatures auperisurnes ou inférience aux conditions d'utilisation, de lamperature de portionn.

 Le système d'administration de substances médicamentauses Paragon a été étationné à faide de settiem physiologique sais (SR) chimire solvant de de la temperature de la peau (32°C, 90°F) comme milieu ambient d'intervention, Avec le souvrait SN et la temperature de la poeux in crossition de fluide s'écoule dans le système Paragon à la vitesse notimisée solvant de la lemperature de la péculie de contration de fluide s'écoule dans le système Paragon à la vitesse notimisée que cuées métrionnées colessaus affectura la vitesse nommatée de circulation. Soft, par autemple, si d'un titule de la solution.

- PORTANTE

 Com PARAGON possions essere implegas solo set di somministrazione prodote
 as I-Flow Corporasion. I-Flow Corporasion declaria ogni responsabilità per la
 ar-Flow Corporasion. I-Flow Corporasion declaria ogni responsabilità per la
 ar-estazione o diamini ciusasi dall'implego non corretto della prodote con set di
 comministrazione non subcorporazioni.

 Questo prodotto usa PVC piestoczzano con DEI-IP. Certe soluzioni possione
 cassiere incompessibili con in instaniasi usato nel set di somministrazione.

 Consultare il foglio sistuzioni conternito nella confezione del fermisco e antecinti disponibili per la imigene informazione possibile su possibili proderni
 di reportito per la imigene informazione possibile su possibili proderni
 di soportivo contene lattice naturale. Soggetti con riconosciuta
 sersacitàti al lattice non dovreobero usare questo prodotto.

SPECIFICHE DELL'INFUSORE PARAGON

nu: altezza 5.8 cm: diametro 10.2 cm Peso: 260 g

Velocità di flusso: 0.5-1-2-4-10 ml/h

Accuratezza: ±10% nell'intervallo di confidenza del 95% Volume di riempamento: 1.5 ml Volume residuo: 5 ml max

- Volume resource de finsso di cascum set di somministrazione e indicata da un eschetta sui set stesso.

 2. Le velocità di flusso possono venare da cuanto indicato a causa di vescosità di oriocarizzazione dei farmico i emperatura sopra o sono le condizioni operative possonamento dell'influsore PARAGON sopra o sodo i pumo di accesso possonamento dell'influsore PARAGON sopra o sodo i pumo di accesso.
- possponarmanio dell'inhisore PARAGON sopra o sotto è pumo di accesa ai passerite.

 Il passerite. Il passerite di indicato periodi e stato calibrato usanno Soluzio Saltere (NS) come acvivente e sempretura e comisto delle cute (3Z C. 90' come ambiente operativo. Quando si usano NS e temperatura a comizi della cute. Il Sistema Paragon sivera si fusso nominate specificatio. L'impre-diato sotto dell'indicato periodi della cute della produtta produttare variazioni dell'illusion nominate. Ad esempio, se viene usa Desirosso SS come solventre fanate. Il Sistema Paragon ne un fisso o 10% ai di sotto del valore nominate dovuto alla maggiore viscostra descurrente.

Poorseannane Europeo

Songue por Corp.

Songue p Flow Corp Laxe Forest, CA 92630 moreso en EE UU

Peprentant pour l'Europe

MPS Medicai Product Service Griph

Borngasse 20: 35619 Braunteis, Germany

Lake Forest, CA 92630

Brevetti USA e stranien in corso di registrazione

The second secon

PAPPRESENTANTE EUROPEO 4. MPS Medicai Product Service GmbH Sorrigasse 20 35619 Braunteis, Germany

301**550D** 298



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REF

EF 5**000**937

(I-FLOW).

I-FLOW CORPORATION, LAKE FOREST, CAU.S.A.

Paragon Administration Set 1 ml/hr (NS, 32°C)





STERILE EO





SEE DIRECTIONS FOR USE. CAUTION: FEDERAL LAW (U.S.A.) RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A HEALTHCARE PROFESSIONAL.

European Representative: Europeache Vertrefung ' Representant pour l'Europe; Representante Europeo; Rappresentante Europeo: MPS Medical Product Service GmbH Borngasse 20, 35619 Braunfels, Germany

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Manufactured by / Hersteller von : Fabrique par / Fabricado por / Prodoto Da: I-Flow Corporation Lake Forest, CA 92630 U.S.A.

13018708



A PRODUCT OF / EINE PRODUKT VON / UN PRODUIT DE / UN PRODUCTO DE / UN PRODOTTO

I-FLOW CORPORATION, LAKE FOREST, CA U.S.A.

CONTENTS / INHALT / CONTENU / CONTENIDO / CONTIENE:

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REF

Paragon Administration Set

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pour l'Europe / Representante Europeo / Rappresentante Europeo European Representative / Europaische Vertretung / Représentant MPS Medical Product Service GmbH

Borngasse 20, 35619 Braunfels, Germany

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Appendix D Reference Labeling I-Flow Paragon Infusion System Flow Rate Label

Skin Contect - NS

1 mi
hr



Appendix E

Paragon Bolus Accessory Set

Summary of Safety and Effectiveness



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SUMMARY OF SAFETY AND EFFECTIVENESS

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December 30, 1998

Trade Name: Paragon Bolus Accessory Set

Common Name: Bolus Accessory

Classification Name: Set, Administration, Intravascular

All questions and/or comments concerning this document should be made to:

Robert J. Bard, Esq., R.A.C. Vice President of Regulatory and Legal Affairs

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1.0 GENERAL INFORMATION

1.1 Purpose of Submission

- 1.1.1 This submission is intended to notify the Federal Food and Drug Administration that I-Flow Corporation intends to market an accessory device for the Paragon Infusion System (K923875), originally identified as the SideKick 50 Plus and SideKick 100 Plus. This new accessory will be known as the Paragon Bolus Accessory Set, hereafter identified as the Bolus Accessory. No change will be made to the existing Paragon pump or administration sets.
- 1.1.2 Trade Name: Paragon Bolus Accessory Set
- 1.1.3 Common Name: Bolus Accessory Set
- 1.1.4 Classification Name: Set, Administration, Intravascular
- 1.1.5 Product Code: 80 FPA
- 1.1.6 Device Classification: Class II, 880.5440
- 1.1.7 Classification Panel: General Hospital and Personal Use Device

1.2 Statement of Equivalence

1.2.1 The Bolus Accessory is substantially equivalent to Patient Control Module (K884505) marketed by Baxter Healthcare Corporation and the I-Flow Bolus Dispenser (K935811).

2.0 PHYSICAL SPECIFICATIONS AND DESCRIPTIONS

2.1 Description of the Bolus Accessory

Wherever the Paragon pump and administration set are mentioned, they may be replaced by any constant 6 psi pressure system.

- 2.1.1 The Bolus Accessory may connect to any Paragon administration set to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 2.1.2 The Bolus Accessory consists of plastic housing, medication reservoir, bolus button activator and wrist bands.
- 2.1.3 The bolus button allows patient controlled administration of medication as needed.

2.2 **Product Configuration**

2.2.1 The Bolus Accessory is available in 0.5 ml bolus volume.

2.3 Components and Materials

2.3.1 All fluid path components of the Bolus Accessory are in conformance with ISO 10993 Part 1.

2.4 Power Requirements

2.4.1 The Bolus Accessory is a mechanical device that requires no external power.

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3.0 OPERATIONAL SPECIFICATIONS AND DESCRIPTIONS

3.1 Standard Operating Conditions:

Bolus Volume:

0.5 ml

Refill Time:

variable

Priming/Residual Volume:

<=4 ml

Operating Temperature:

90 ± 2°F

Calibration Solution:

0.9% NaCl

Operating Pressure:

6.0 psi pressure source

Head Height:

O"

Accuracy:

bolus volume: ±10% at 95% confidence interval at

the identified lockout times.

3.2 **Performance Data:** Testing occurred at standard operating conditions. All models performed within the specified accuracy when tested at nominal conditions.

3.3 Safety / Alarm Funtions

- 3.3.1 This device contains no alarms or indicators.
- 3.3.2 The non-linear refill adds additional patient safety if the bolus button is activated prior to the lockout time.

4.0 BIOLOGICAL SPECIFICATIONS

4.1 Biological testing is in conformance with ISO 10993 Part 1 for all fluid path components.

5.0 CHEMICAL AND DRUG SPECIFICATIONS

- 5.1 Compatibility
 - 5.1.1 There are no specific drugs referenced in the labeling for the Bolus Accessory.
 - 5.1.2 The Bolus Accessory is intended for general purpose drugs and pain medication.

6.0 INTENDED USE

- 6.1 The Bolus Accessory is intended to deliver fixed boluses of medication upon demand by the patient or healthcare provider.
- 6.2 The routes of administration intravenous, epidural, intramuscular and subcutaneous.
- 6.3 The Bolus Accessory is not intended for continuous delivery.
- 6.4 The Bolus Accessory is single patient use only.
- 6.5 The Bolus Accessory is suitable for use as an ambulatory device and is intended for use in the hospital, home environment or alternative care sites.
- No testing has been conducted to determine the efficacy of Bolus Accessory for the delivery of blood, blood products, lipids or fat emulsions. The Bolus Accessory is not intended for the delivery of blood, blood products, lipids or fat emulsions.

7.0 STANDARDS

7.1 There are currently no standards established for mechanical PCA infusion devices.

8.0 PACKAGING

8.1 Packaging is suitable for radiation or ETO sterilization.

9.0 STERILIZATION

9.1 The method of sterilization is gamma radiation (cobalt 60).

10.0 COMPARISON TO LEGALLY MARKETED DEVICES

10.1 The Bolus Accessory has the same intended use as the predicate Baxter Pain Control Module and the I-Flow Bolus Dispenser. The Bolus Accessory has similar bolus volumes and lockout times as its predicate devices.