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DELFLEX peritoneal dialysis solutions are hypertonic peritoneal dialysis solutions containing dextrose, a monosaccharide, as the primary osmotic agent. An osmotic gradient must be created between the peritoneal membrane and the dialysis solution in order for ultrafiltration to occur. The hypertonic concentration of glucose in DELFLEX solutions exert an osmotic pressure across the peritoneal membrane resulting in transcapillary ultrafiltration. Like other peritoneal dialysis solutions, DELFLEX solutions contain electrolytes to facilitate the correction of acid-base and electrolyte abnormalities. DELFLEX solutions contain a buffer, lactate, to help normalize acid-base abnormalities.

12.3 Pharmacokinetics

Absorption

Glucose can be rapidly absorbed from the peritoneal cavity by diffusion and appears quickly in the circulation due to the high glucose concentration gradient between DELFLEX solutions compared to blood capillary glucose level. Absorption per unit time will be the highest at the start of an exchange and decreases over time. The rate of glucose absorption will be dependent upon the transport characteristics of the patient’s peritoneal membrane as determined by a peritoneal equilibration test (PET). Glucose absorption will also depend upon the concentration of glucose used for the exchange and the length of the dwell. Transport of other molecules will be dependent upon the molecular size of the solute, the concentration gradient, and the effective peritoneal surface area as determined by the PET.

Metabolism and Elimination

Glucose is metabolized by normal cellular pathways (i.e., glycolysis). Metabolism of lactate occurs in the liver and results in the generation of the bicarbonate. Glucose not absorbed during PD exchange procedure is removed by drainage of the PD solution from the peritoneal cavity.

Drug Interaction Studies

Antibiotics

No formal clinical drug interaction studies have been performed. In vitro studies of the following medications have demonstrated stability with DELFLEX solutions: cefazolin, ceftazidime, gentamicin, and vancomycin.

13. NONCLINICAL TOXICOLOGYix

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long term animal studies with DELFLEX peritoneal dialysis solutions have not been performed to evaluate the carcinogenic potential, mutagenic potential or effect on fertility.

16. HOW SUPPLIED/STORAGE AND HANDLING

DELFLEX peritoneal dialysis solutions are available in the sizes and formulations shown in Table 1 [see Dosage Forms and Strengths (3)]. DELFLEX peritoneal dialysis solutions are delivered in transparent, single-dose flexible bags. The solution is clear with color being slightly yellow to colorless.

Table 3. DELFLEX peritoneal dialysis NDC designations

	PVC		Biofine®		
Unit Volume	3L	5L	3L	5L	6L
Number of units per carton	4	2	4	2	2
Standard 1.5% Dextrose		49230-188-50		49230-188-52	49230-188-62
Standard 2.5% Dextrose		49230-191-50		49230-191-52	49230-191-62
Low Mg/Low Ca 1.5% Dextrose	49230-206-30	49230-206-50	49230-206-32	49230-206-52	49230-206-62
Low Mg/Low Ca 2.5% Dextrose	49230-209-30	49230-209-50	49230-209-32	49230-209-52	49230-209-62
Low Mg/Low Ca 4.25% Dextrose	49230-212-23	49230-212-50	49230-212-32	49230-212-52	49230-212-62

Magnesium (Mg); Calcium (Ca)

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C and 30°C (between 59°F and 86°F). See USP Controlled Room Temperature. Brief exposure to temperatures up to 40°C (104°F) may be tolerated provided the mean kinetic temperature does not exceed 25°C (77°F); however, such exposure should be minimized.

Keep DELFLEX and all medicines out of the reach of children.

17. PATIENT COUNSELING INFORMATION

Aseptic technique must be used throughout the procedure and at its termination in order to reduce the possibility of infection.

The solution bag should remain in the carton and the overwrap intact until time of use.

Use only after checking for strength, clarity, amount, leaks, and expiration date.

Advise patients that DELFLEX peritoneal dialysis solution should not be heated in a microwave oven.

Care should be taken to ensure that there is not any leakage around the catheter, since if not controlled, the leakage can create edema from subcutaneous infiltration of the dialysis solution. The leakage will also create an inaccurate fluid balance measurement. If any leakage is identified, advise the patient not to proceed with infusion and notify your physician.



FRESENIUS
MEDICAL CARE

Fresenius Medical Care North America
920 Winter Street
Waltham, MA 02451
1-800-323-5188

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DELFLEX®
Dextrose Peritoneal Dialysis Solution
for Intraperitoneal Dialysis Only

Prescribing Information

No Latex

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DELFLEX® safely and effectively. See full prescribing information for DELFLEX®

DELFLEX (dextrose) peritoneal dialysis solution
Initial U.S. Approval: 1984

DELFLEX Low Magnesium, Low Calcium (dextrose) peritoneal dialysis solution
Initial U.S. Approval: 1992

-INDICATIONS AND USAGE-

For treatment of chronic kidney failure. (1)

-DOSAGE AND ADMINISTRATION-

For intraperitoneal dialysis only. (2)

-DOSAGE FORMS AND STRENGTHS-

DELFLEX solutions are available in multiple compositions, calculated osmolarity, pH, and ionic concentrations. See full prescribing information for detailed descriptions of each formulation. (3, 11)

-CONTRAINDICATIONS-

None

-WARNINGS AND PRECAUTIONS-

- Monitor patient for electrolyte, fluid, and nutrition

- imbalances. (5.1)
- Encapsulating Peritoneal Sclerosis (EPS) (5.2)
- Peritonitis: Initiate appropriate antimicrobial therapy (5.2)
- Monitor for Lactic Acidosis in patients at risk. (5.3)

-ADVERSE REACTIONS-

Adverse reactions may include peritonitis, catheter site infection, electrolyte and fluid imbalances, hypovolemia, hypervolemia, hypertension, disequilibrium syndrome, muscle cramping, abdominal pain, abdominal distension, and abdominal discomfort. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Medical Care North America at 1-800-323-5188 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION

Revised: 12/2024

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