Glossary of Terms

Artificial kidney: See dialyzer.

- Coil dialyzer: A dialyzer in which the blood passes through semipermeable membrane tubing. The tubing is wound around itself, or "coiled" and a supporting screen separates the coils. The dialysate passes at a 90 angle through the space created by the screen,
- Concentration ratio: The share of market output accounted for by the largest firms in an industry usual 1 y by the four largest. Higher values are indicative of greater concentration of economic power and less competitiveness.
- Continuous ambulatory peritoneal dialysis (CAPD): A form of peritoneal dialysis in which there is a continuous manual exchange of dialysate from the peritoneal cavity.
- Continuous cycling peritoneal dialysis (CCPD): A form of peritoneal dialysis in which a machine cycles the dialysate in and out of the peritoneal cavity automat ically about every 4 hours overnight as the patient sleeps.
- Dialysate: A fluid that is used in the dialysis process, which con tains desirable concentrations of physiological chemicals. During dialysis, the dial} 'sate is separa ted from the pat ient's b] ood by a semiimpermeable membrane.
- Dialyzer: A device used in hemodialysis. It consists of a compartment for the blood, a compartment t for the dialysate, and asem impermeable membrane separating the two. The three principal types are coil, hollow fiber, and parallel plate.
- End-stage renal disease (ESRD): A condition of irreversible kidney fail ure. Without treatment, the disease results in the patient's death.
- Hemodialysis: A process by which blood is pumped from the patient's bodyinto a dialyzer and then returned to the body in a cent inuous extracorporeal blood loop. While in the dialyzer the blood flows next to but separate from another fluid, a dialysate. The blood and the dialysate are separated from each other by a semipermeable membrane. Via diffusion and osmosis, waste products and other molecules pass through the semipermeable membrane and the blood can again take on its appropriate properties. Hemodialyzer: See *dialyzer*.
- Herfindahl index: A measure of economic market concentration. It is calculated by summing the squares of the market shares of the firms in the market, Higher values of the index indicate a greater degree of concentration and a less competitive market structure,

- Hollow fiber dialyzer: A dialyzer containing thousands of hollow fibers bundled within a compact cylinder. Blood flows through the semipermeablehollow fibers while the dialysate passes outside the fibers.
- Intermittent peritoneal dialysis (IPD): A form of peritoneal dialysis involving intermittent treatment three to four times per week. Typically, the patient is dialyzed for about 12 hours on each treatment.
- Parallel plate dialyzer: A dialyzer consisting of a stack of semipermeable membranes sandwiched between support plates. Blood passes through the membranes while the dialysate passes in the opposite direction through grooves or spaces in the support plate.
- Peritoneal dialysis: A process in which dialysis occurs with in the pat ient'sbody rather than viaanextracorporeal bloodloop, as is done in hemodialysis. A permanent catheter is inserted into the abdomen and then dialysate is entered through the catheter into the peritoneal cav i tv. The fluid is allowed to remain for vary ingperiods of time, du ring which dialysis occurs across the semipermeable peritoneal membrane, Later, the dialysate is drained out through the catheter and discarded.
- Peritonitis: An inflammation of the peritoneum, the smooth transparent serous membrane that lines the cavity of the abdomen,
- Prospective reimbursement: The setting of reimbursement rates prospectively, ic'., in advance of the actual provision of care. This is to be contrasted with cost-based or retrospective reimbursement, in which rates reflect actual costs incurred,
- Reuse: With respect to dialysis, this occurs when a dialyzer, after its original use, is reprocessed, stored, and then used aga i n on the same pat ieni, often multiple times.
- Transplantation: With respect tokidneys, the transplant ing of a healthy kidney troma donor, "living or recentlydeceased, in to a patient with kid ney disease.

Glossary of Acronyms

- CAPD —continuous ambulator, peritoneal dialysis
- CCPD —continuous cycling peritoneal dialysis
- ESRD —end-stage renal disease
- FDA —Food and Drug Administration, Department of Health and Human Services
- GAO —General Accounting Office
- GMP -good manufacturing practices
- HCFA —Health Care Financing Administration, Department of Health and Human Services
- IPD --intermittent peritoneal dialysis

NIADDI	KNational Institute' of Arthritis, Diabetes,	NMC	National Medical Care, Inc.
	and Digestive and Kidney Diseases, Na-	OTA	Office of Technology Assessment, U.S.
	tional Institutes of Health, Department of		Congress
	HealthandHuman Services	R&D	research and development
NIH	- National Institutes of Health, Department	VA	Veterans Administration
	of Health and Human Set-vices		