

nephrology technology

The Hemodialysis Unit at the Veterans Administration Research Hospital was approached in February, 1970, by the Chicago City College in regard to setting up a program to train nephrology technologists, with the approval of the Illinois Junior College Board for higher education. After prolonged discussion an agreement was made to accept students from the Malcolm X City College Allied Health Division and to be a program for District 508 City College of Chicago.

Our teaching staff is made up of the Northwestern Medical Center and affiliated hospitals, Passavant, Wesley, Children's, Evanston, and the Veterans Administration Research Hospital. We have dialysis centers at Passavant, Children's and Evanston. Physicians, nurses, technologists and other team members are participants in this training program from the combined Medical Center Renal Services.

We offer training in renal transplantation, organ preservation and renal research. Approval from the Veterans Administration Central Office in Washington, D.C. was obtained in August, 1970, to set up the two year Associate Degree Program in nephrology technology. The Allied Health and Manpower Division of the American Medical Association was contacted to secure information regarding standards and to set up a registry. The first class was to begin in September, 1970.

Objective: To develop a curriculum for an Associate Degree Program that would develop a technologist in all aspects of dialysis to render patient care from the biochemical laboratory, technical laboratory, medical management and nursing management under the medical direction of the Nephrology Service. A developed technologist of this caliber and profession would then have the essential training to offer service in the clinical and research aspects of dialysis for improved patient care and therapy.

First Year—Second Semester

Didactical: English, Mathematics, Biology Laboratory course, Medical Terminology, Physics, Chemistry, Chemical Calculations, Anatomy and Physiology.

Clinical and Practical: Renal Technology 101, 102 and 103 consist of coil and kiil dialysis with single systems and central system, biochemical equipment, various tests used in dialysis, etc. Nephrology 201, 202 and other

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nephrology courses are designed to teach the students about renal disease and management taught by the staff physicians of the affiliated hospitals of the Medical Center.

Summer Session:

Clinical and Practical: Renal technology 105, 106 and 107 consists of Biochemical determination, test results, testing the patients blood values, setting up the flame photometer, osometer, pH meter and all technical equipment used at this center. The summer provides an internship and an evaluation of the fall and spring semester work.

Second Year—First Semester:

Didactical: Microbiology, Psychology, Humanity

Clinical and Practical: Nephrology 203, a continued course about renal disease. Nephrology technology 204, 205, 205 I and 205 II consist of parallel flow dialysis *in vitro* and *in vivo*, cannula, fistula, heparinization, ultrafiltration and bacteriology, sterilization of equipment systems, running peritoneal dialysis, the legal aspects of the technologist, professional conduct and ethics, and the responsibilities of administering treatment in home and center dialysis.

Conclusion:

Our program is now in the second semester of the first year. We are members of the American Society for Hospital Education and Training of the American Hospital Association. This program enables us to share our talents and resources in the development of skilled personnel for careers in nephrology technology. The technologist will be trained for institutional dialysis and community dialysis. Consideration should be given to the availability of this type of personnel who have been trained in all techniques of hemodialysis. We also believe that this program could be used as an avenue to the Physician Assistant Program in Nephrology.

NEPHROLOGY TECHNOLOGY

Fall (First Semester)	Credit Hours	Summer Session	Credit Hours
Fall (First Semester)	Credit Hours	Renal Technology —103	2
English —101	3	Renal Technology —104	2
Mathematics —101	3	Renal Technology —105	2
Biology —126	4		6 Hrs.
Biology —117(Medical Terminology)	2	Fall (Second Semester)	Credit Hours
Renal Technology —101	2	Renal Technology —106	2
Nephrology —201*	3	Renal Technology —107	2
	17 Hrs.	Renal Technology —108	2
		Nephrology —203*	3
		Nephrology Technology —204	3
		Nephrology Technology —205	3
			15 Hrs.
*Physicians will teach nephrology course		Spring Semester	Credit Hours
Spring Semester	Credit Hours	Psychology —218	3
Physics —132	3	Elective (Microbiology) —201	3
Biology —127	4	Nephrology Technology —206	3
Chemistry —131	3	Nephrology Technology —207I	1½
Chemistry —106(Calculations)	1	Nephrology Technology —207II	1½
Renal Technology —102	3	Elective (Humanities) —201 or 202	3
Nephrology —202*	3		15 Hours
	17 Hrs.		

*Physicians will teach nephrology course