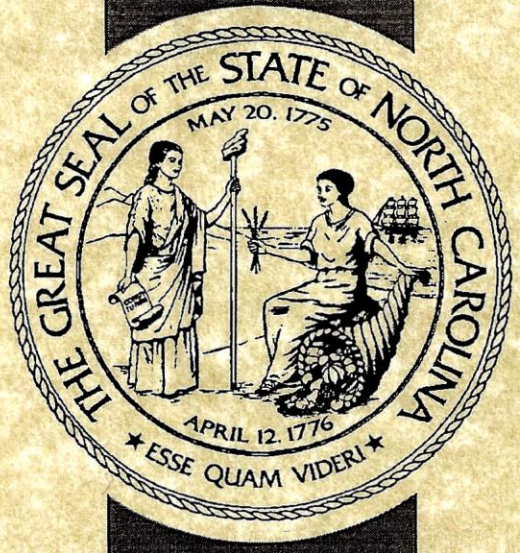

March 1998 North Carolina Semiannual Dialysis Report

North Carolina State Health Coordinating Council
Medical Facilities Planning Section
Division of Facility Services
NC Department of Health and Human Services

END-STAGE RENAL DISEASE DIALYSIS FACILITIES
March 1998 Semiannual Dialysis Report

Introduction

The 1998 State Medical Facilities Plan requires semiannual determination of need for new dialysis stations in North Carolina. This approach calls for publication of "Semiannual Dialysis Reports" (SDR) during March and September. The 1998 Plan specifies that the Semiannual Dialysis Reports " ...will use facility, station and active patient data provided as of December 31, 1997 for the March SDR and as of June 30, 1998 for the September SDR. This document is the March 1998 SDR. It reiterates the methodology and presents need determinations for the first dialysis review period of 1998.

Summary of Dialysis Station Supply and Utilization

As of March 12, 1998, there were ninety-seven End-Stage Renal Disease (ESRD) dialysis facilities certified and operating in North Carolina, providing a total of 1,993 dialysis stations. Twenty-one new facilities and thirty-five requests for expansion were under consideration, but the stations involved were not yet Medicare certified, unless those stations were being transferred from an existing certified facility. Sixteen requests for reduction (*i.e., transfer of stations to other locations*) were also under consideration. The number of facilities per county ranged from zero to twelve.

Utilization data as of December 31, 1997 are presented in the final two columns of Table A. Of the ninety-seven certified facilities operational on that date, fifty-eight were at or above 80% utilization (*i.e., greater than or equal to 3.2 patients per station*).

Sources of Data

Inventory Data:

Data on the current number of facilities and stations were obtained from the Certificate of Need Section and the Licensure and Certification Section, Division of Facility Services, Department of Health and Human Services.

Dialysis Patient Data:

Data on the dialysis population by county and by facility as of December 31, 1997 were provided by the Health Care Financing Administration (HCFA) through the Southeastern Kidney Council, Inc. (SEKC) and the Mid-Atlantic Renal Coalition, Inc.

County Data are designed to include all North Carolina residents of each county who are receiving dialysis, regardless of where they are currently being served. The numbers of North Carolina patients being served in North Carolina, Georgia and South Carolina as of December 31, 1997 were provided by the SEKC on February 27, 1998. The SEKC noted that these figures are preliminary and are currently being reconciled. Final figures

are not available until May. County totals from the SEKC were supplemented by data from the Mid-Atlantic Renal Coalition on March 19, 1998 indicating the number of patients residing in North Carolina counties and receiving dialysis in Virginia. Data for December 31st of 1993, 1994, 1995 and 1996 have been provided by the same sources for the five-year trend analysis.

Facility Data include all patients being served by each provider as of December 31, 1997 regardless of the county or state of each patient's residence. These figures were also provided by the SEKC on February 27, 1998. The totals are not considered final until after the annual data validation.

Method for Projection New Dialysis Station Need

The 1998 State Medical Facilities Plan (SMFP) directs the Medical Facilities Planning Section to "...determine need for new dialysis stations two times each calendar year, and...make a report of such determinations available to all who request it." The basic principles, methodology and timeline to be used were specified in the 1998 SMFP and are presented below:

Basic Principles

The principles underlying projection of need for additional dialysis stations are as follows:

1. Increases in the number of facilities or stations should be done to meet the specific need for either a new facility or an expansion.

2. New facilities must have a projected need for at least 10 stations (or 32 patients) to be cost effective and to assure quality of care.

3. The Medical Facilities Planning Section will maintain a list of existing facilities and stations, utilization rates and projected need by county that is up-dated semiannually. Up-dated projections will be available two times a year on a published schedule. Existing or potential providers interested in expanding in any area of the State may contact the Medical Facilities Planning Section for projected need in the area of interest.

4. Up-dates of the projections may target counties that have developed sufficient need to warrant consideration for facility expansion or for establishment of a new facility. Actual numbers are not published in the Plan so they can be up-dated as appropriate by the Medical Facilities Planning Section.

5. Home patients will not be included in the determination of need for new stations. Home patients include those that receive hemodialysis or peritoneal dialysis in their home.

6. No existing facility may expand unless its utilization is 80% or greater. Any facility at 80% utilization or greater may apply to expand.

7. Facilities reporting no patients through the Southeastern Kidney Council for four consecutive Semiannual Dialysis Reports, beginning from March 1997, will be excluded from future inventories.

8. Quality of Care: All facilities should comply with Medicare and Medicaid regulations relating to the delivery and certification of ESRD services and with relevant North Carolina statutory provisions. An applicant already involved in the provision of end-stage renal disease services should provide evidence that care of high quality has been provided in the past. The following are considered indicators of quality of care and existing providers proposing to expand their operations should include in their applications data which includes, but is not limited to, the following:

   a. utilization rates
   b. morbidity and mortality rates
   c. numbers of patients that are home trained and patients on home dialysis
   d. number of patients receiving transplants
   e. number of patients currently on the transplant waiting list
   f. hospital admission rates
   g. conversion rates for patients who have acquired hepatitis or AIDS

9. Availability of Manpower and Ancillary/Support Services: The applicant should show evidence of the availability of qualified staff and other health manpower and management for the provision of quality ESRD services as well as the availability of a safe and adequate water supply, provision for treatment of wastewater discharge and a standing electrical service with backup capabilities.

10. Patient Access to In-Center ESRD Services: As a means of making ESRD services more accessible to patients, one of the goals of the Department of Health and Human Services is to minimize patient travel time to and from the center. Therefore,

    a. End-stage renal disease treatment should be provided in North Carolina such that patients who require renal dialysis are able to be served in a facility no farther than 30 miles from the patients' homes.

    b. In areas where it is apparent that patients are currently traveling more than 30 miles for in-center dialysis, favorable consideration should be given to proposed new facilities which would serve patients who are farthest away from existing, operational or approved facilities.

11. Transplantation Services: Transplantation services should be available to and a priority for all ESRD patients whose conditions make them suitable candidates for

this treatment. New enrollees should meet with and have access to a transplantation representative to provide patient education and evaluation for transplantation.

12. Availability of Dialysis Care: The Council encourages applicants for dialysis stations to provide or arrange for:

    a. Home training and backup for patients suitable for home dialysis in the ESRD dialysis facility or in a facility that is a reasonable distance from the patient's residence;

    b. ESRD dialysis service availability at times that do not interfere with ESRD patients' work schedules;

    c. Services in rural, remote areas.

Methodology:
Need for new dialysis stations shall be determined as follows:

(1) County Need

(A) The average annual rate (%) of change in total number of dialysis patients resident in each county from the end of 1993 to the end of 1997 is multiplied by the county's 1997 year end total number of patients in the SDR, and the product is added to each county's most recent total number of patients reported in the SDR. The sum is the county's projected total 1998 patients.

(B) The percent of each county's total patients who were home dialysis patients at the end of 1997 is multiplied by the county's projected total 1998 patients, and the product is subtracted from the county's projected total 1998 patients. The remainder is the county's projected 1998 in-center dialysis patients.

(C) The projected number of each county's 1998 in-center patients is divided by 3.2. The quotient is the projection of the county's 1998 in-center dialysis stations.

(D) From each county's projected number of 1998 in-center stations is subtracted the county's number of stations certified for Medicare, CON-approved and awaiting certification, awaiting resolution of CON appeals, and the number represented by need determinations in previous State Medical Facilities Plans or Semiannual Dialysis Reports for which CON decisions have not been made. The remainder is the county's 1998 projected station surplus or deficit.

(E) If a county's 1998 projected station deficit is ten or greater and the SDR shows that utilization of each dialysis facility in the county is 80% or greater, the 1998 county station need determination is the same as the 1998 projected station deficit. If a county's 1998 projected station deficit is less than ten or if the utilization of any dialysis facility in the county is less than 80%, the county's 1998 station need determination is zero.

(2) Facility Need *(Note: In the First SDR Period, Steps (ii) and (iii) cancel one another.)*

A dialysis facility located in a county for which the result of the County Need methodology is zero in the reference Semiannual Dialysis Report (SDR) is determined to need additional stations to the extent that:

(A) Its utilization, reported in the current SDR, is 3.2 patients per station or greater.

(B) Such need, calculated as follows, is reported in an application for a certificate of need:

(i) The facility's number of in-center dialysis patients reported in the previous SDR (SDR_1) is subtracted from the number of in-center dialysis patients reported in the current SDR (SDR_2). The difference is multiplied by 2 to project the net in-center change for 1 year. Divide the projected net in-center change for the year by the number of in-center patients from SDR_1 to determine the projected annual growth rate.

(ii) The quotient from (2)(B)(i) is divided by 12.

(iii) The quotient from (2)(B)(ii) is multiplied by the number of months from the most recent month reported in the current SDR until the end of calendar 1998.

(iv) The product from (2)(B)(iii) is multiplied by the number of the facility's in-center patients reported in the current SDR and that product is added to such reported number of in-center patients.

(v) The sum from (2)(B)(iv) is divided by 3.2, and from the quotient is subtracted the facility's current number of certified and pending stations as recorded in the current SDR. The remainder is the number of stations needed.

[NOTE: "Rounding" to the nearest whole number is allowed only in Step 1(C) and Step 2(B)(v). *Fractions of 0.5000 or greater shall be rounded to the next highest whole number.]*

(C) The facility may apply to expand to meet the need established in (2)(B)(v), up to a maximum of ten stations.

Unless specific "adjusted need determinations" are recommended by the North Carolina State Health Coordinating Council, an application for a certificate of need for additional dialysis stations can be considered consistent with the need determinations of the 1998 State Medical Facilities Plan only if it demonstrates a need by utilizing one of the methods of determining need outlined above.

Timeline:

The schedule for publication of the North Carolina Semiannual Dialysis Reports and for receipt of certificate of need applications based on each issue of this report in 1998 shall be as follows:

Data for Period Ending	Receipt of SEKC Report	Publication of SDR	Receipt of CON Applications	Beginning Review Dates
Dec. 31, 1997	Feb. 27, 1998	March 20, 1998	May 15, 1998	June 1, 1998
June 30, 1998	Aug. 31, 1998	Sept. 21, 1998	November 13, 1998	Dec. 1, 1998

Table A: Inventory of Dialysis Stations and Calculation of Utilization Rates

(Inventory Compiled 3/12/98; Utilization Rates Calculated for 12/31/97)

COUNTY	PROVIDER NUMBER	FACILITY	CITY	Number of Dialysis Stations as of 3/12/98					Certified Stations 12/31/97	# In-Center Patients 12/31/97	Utilization Rate	
				Certified	CON Issued /Not Cert.	Decision Rendered	Decision Pending	TOTAL			By Percent	Patients per Station
ALAMANCE	34-2533	BMA of Burlington	Burlington	22	0	0	0	22	22	77	87.5%	3.50
	34-2567	Renal Treatment Center-Burlington	Burlington	13	0	0	0	13	13	52	100.0%	4.00
ALEXANDER								0				
ALLEGHANY								0				
ANSON	34-2560	Dialysis Care of Anson County	Wadesboro	8	0	0	0	8	8	16	50.0%	2.00
ASHE								0				
AVERY								0				
BEAUFORT	34-2561	BMA of Pamlico	Washington	17	0	0	0	17	17	54	79.4%	3.18
BERTIE	34-2547	Windsor Dialysis Unit (BMA)	Windsor	16	0	0	0	16	16	41	64.1%	2.56
BLADEN	34-2578	Southeastern Dialysis Center, Inc.	Elizabethtown	8	5	0	0	13	8	30	93.8%	3.75
BRUNSWICK	34-2582	Southeastern Dialysis Center, Inc.	Shallotte	11	0	0	0	11	11	30	68.2%	2.73
BUNCOMBE	34-2506	Asheville Kidney Center	Asheville	28	8	0	0	36	28	149	133.0%	5.32
	34-2300	Memorial Mission Hospital ESRD Center	Asheville	4	0	0	0	4	4	5	31.3%	1.25
BURKE	34-2563	BMA of Burke County	Morganton	15	0	0	0	15	15	51	85.0%	3.40
CABARRUS	34-2519	Metrolina Kidney Center (BMA-Concord)	Concord	28	0	-10	0	18	28	94	83.9%	3.36
	n/a	BMA of Kannapolis *	Kannapolis	0	0	10	0	10				
	34-2312	NorthEast Medical Center	Concord	1	0	0	0	1	1	0	0.0%	0.00
CALDWELL	34-2509	BMA-Lenoir (Northwestern Dialysis)	Lenoir	20	0	0	0	20	20	63	78.8%	3.15
CAMDEN								0				
CARTERET	34-2588	Crystal Coast Dialysis Unit (BMA) **	Morehead City	6	0	3	0	9	6	28	116.7%	4.67
CASWELL	n/a	Carolina Dialysis Center--Caswell	Yanceyville	0	10	0	0	10	0	0	0%	0.00
CATAWBA	34-2516	BMA-Hickory (Northwestern Dialysis)	Hickory	22	6	0	0	28	22	87	98.9%	3.95
CHATHAM	34-3501	Carolina Dialysis Siler City	Siler City	9	0	0	0	9	9	32	88.9%	3.56
CHEROKEE								0				
CHOWAN	34-2541	Gambro Healthcare Edenton	Edenton	13	0	0	4	17	13	44	84.6%	3.38
CLAY								0				
CLEVELAND	34-2529	Dialysis Clinic, Inc. (DIC Shelby)	Shelby	22	0	0	0	22	22	74	84.1%	3.36
COLUMBUS	34-2521	Southeastern Dialysis Center	Whiteville	18	0	0	0	18	16	58	90.6%	3.63
CRAVEN	34-2534	New Bern Dialysis Unit (BMA) **	New Bern	36	0	-3	0	33	36	98	68.1%	2.72
	34-2585	Dialysis Care of Craven County	New Bern	14	0	0	0	14	14	15	26.8%	1.07

* Proposed new site composed of existing dialysis stations. Utilization of existing stations included with current location shown above.

** Proposed expansion in Carteret County by 3 stations, which will be relocated from the BMA facility in Craven County. Utilization of existing stations included with current location in Craven County.

Table A: Inventory of Dialysis Stations and Calculation of Utilization Rates

(Inventory Compiled 3/12/98; Utilization Rates Calculated for 12/31/97)

COUNTY	PROVIDER NUMBER	FACILITY	CITY	Number of Dialysis Stations as of 3/12/98					Certified Stations 12/31/97	# In-Center Patients 12/31/97	Utilization Rate	
				Certified	CON Issued /Not Cert.	Decision Rendered	Decision Pending	TOTAL			By Percent	Patients per Station
CUMBERLAND	34-2510	Fayetteville Kidney Center Inc. (BMA)	Fayetteville	60	-1	-3	0	56	60	263	109.6%	4.38
	n/a	BMA of Cape Fear *	Fayetteville	0	20	0	0	20				
	n/a	BMA of Cross Creek *	Fayetteville	0	0	13	0	13				
CURRITUCK								0				
DARE	n/a	Outer Banks Dialysis Clinic	Nags Head	0	4	0	0	4	0	0	0.0%	0.00
DAVIDSON	34-2553	Lexington Dialysis Center	Lexington	29	0	0	0	29	29	79	68.1%	2.72
DAVIE								0				
DUPLIN	34-2535	Southeastern Dialysis Ctr. Kenansville	Kenansville	15	0	0	0	15	15	46	76.7%	3.07
DURHAM	34-2302	Duke University Hospital ESRD Unit	Durham	16	0	0	0	16	16	43	67.2%	2.69
	34-2550	Gambro Healthcare-Durham	Durham	27	0	10	-19	18	27	113	104.6%	4.19
	n/a	Gambro Healthcare-Durham East *	Durham	0	0	0	19	19				
	34-2538	Freedom Lake Dialysis Center	Durham	19	0	0	0	19	19	60	78.9%	3.16
	34-2590	West Pettigrew Dialysis Center	Durham	18	0	0	0	18	18	56	77.8%	3.11
EDGECOMBE	34-2577	Dialysis Care of Edgecombe Cnty.	Tarboro	15	0	0	0	15	15	30	50.0%	2.00
	n/a	BMA of East Rocky Mount **	Rocky Mount	0	0	15	0	15				
FORSYTH	34-2304	N. C. Baptist Hospital, Inc.	Winston-Salem	4	0	0	0	4	4	4	25.0%	1.00
	34-2505	Piedmont Dialysis	Winston-Salem	72	0	0	0	72	72	204	70.8%	2.83
	34-2569	Salem Kidney Center	Winston-Salem	48	0	3	0	51	48	164	85.4%	3.42
FRANKLIN	34-2571	Dialysis Care of Franklin County	Louisburg	16	0	0	0	16	16	47	73.4%	2.94
GASTON	34-2513	BMA of Lowell (BMA-Gaston Cnty.)	Gastonia	36	-10	0	0	26	36	117	81.3%	3.25
	n/a	BMA of Kings Mountain *	Kings Mountain	0	10	0	0	10				
GATES								0				
GRAHAM								0				
GRANVILLE	34-2520	Oxford Dialysis Center	Oxford	18	0	0	0	18	18	57	79.2%	3.17
GREENE								0				
GUILFORD	34-2537	BMA of South Greensboro	Greensboro	40	-15	0	10	35	40	149	93.1%	3.73
	n/a	BMA of Southwest Greensboro *	Greensboro	0	15	0	0	15				
	34-2504	Greensboro Kidney Center (BMA)	Greensboro	59	10	0	0	69	59	203	86.0%	3.44
	34-2514	High Point Kidney Center	High Point	34	0	0	0	34	34	110	80.9%	3.24
HALIFAX	34-2542	Roanoke Rapids Dialysis Center (BMA)	Roanoke Rapids	21	0	0	0	21	21	64	76.2%	3.05
HARNETT	34-2557	Dunn Kidney Center (BMA)	Dunn	20	0	10	0	30	20	82	102.5%	4.10
HAYWOOD								0				
HENDERSON	34-2564	Hendersonville Dialysis Center, Inc.	Hendersonville	10	0	0	0	10	10	43	107.5%	4.30
HERTFORD	34-2570	Gambro Healthcare Ahoskie	Ahoskie	12	0	0	4	16	12	45	93.8%	3.75

* Proposed new site composed of existing dialysis stations. Utilization of existing stations included with current location shown above.

** Proposed new site composed of existing dialysis stations. Utilization of existing stations included with current location in Nash County.

Table A: Inventory of Dialysis Stations and Calculation of Utilization Rates

(Inventory Compiled 3/12/98; Utilization Rates Calculated for 12/31/97)

COUNTY	PROVIDER NUMBER	FACILITY	CITY	Number of Dialysis Stations as of 3/12/98					Certified Stations 12/31/97	# In-Center Patients 12/31/97	Utilization Rate	
				Certified	CON Issued /Not Cert.	Decision Rendered	Decision Pending	TOTAL			By Percent	Patients per Station
HOKE	34-2579	Dialysis Care of Hoke County	Raeford	15	0	0	0	15	15	58	96.7%	3.87
HYDE								0				
IREDELL	34-2527	Statesville Dialysis Center Inc	Statesville	32	0	4	0	36	32	104	81.3%	3.25
JACKSON	34-2556	Sylva Dialysis Center	Sylva	19	0	0	0	19	19	78	102.6%	4.11
JOHNSTON	34-2545	Smithfield Kidney Center (BMA)	Smithfield	10	0	0	0	10	10	35	87.5%	3.50
	34-2572	Johnston Dialysis Center, Inc.	Smithfield	10	0	0	0	10	10	44	110.0%	4.40
	n/a	*(Three applications were submitted for the September, 1997 County Need Determination.)*					14	14	0	0	0.0%	0.00
JONES								0				
LEE	34-3500	Carolina Dialysis Sanford (UNC/Renal)	Sanford	16	6	0	0	22	16	92	143.8%	5.75
LENOIR	34-2518	Kinston Dialysis Unit (BMA)	Kinston	36	0	0	5	41	34	128	94.1%	3.76
LINCOLN	34-2568	BMA of Lincolnton	Lincolnton	11	0	6	0	17	11	43	97.7%	3.91
MCDOWELL								0				
MACON								0				
MADISON								0				
MARTIN	34-2584	Dialysis Care of Martin County	Williamston	18	0	0	0	18	18	43	59.7%	2.39
MECKLENBURG	34-2554	BMA-West Charlotte	Charlotte	10	0	0	0	10	10	36	90.0%	3.60
	34-2581	BMA of Beatties Ford (Metrolina)	Charlotte	16	0	0	0	16	16	44	68.8%	2.75
	34-2549	BMA of North Charlotte	Charlotte	14	0	-4	0	10	14	53	94.6%	3.79
	34-2306	Carolina's Medical Center	Charlotte	9	0	0	0	9	9	2	5.6%	0.22
	34-2523	Gambro Healthcare South Charlotte	Matthews	12	0	0	0	12	12	21	43.8%	1.75
	34-2552	Dialysis Care of Charlotte (Meck. Cnty.)	Charlotte	20	-10	0	0	10	20	67	83.8%	3.35
	n/a	DCNC-Charlotte North Campus *	Charlotte	0	10	0	0	10				
	34-2548	Gambro Healthcare Charlotte	Charlotte	21	0	0	0	21	21	92	109.5%	4.38
	34-2503	BMA of Charlotte (Metrolina-Charlotte)	Charlotte	37	-10	-6	0	21	37	147	99.3%	3.97
	n/a	BMA of East Charlotte *	Charlotte	0	0	10	0	10				
	n/a	BMA of Nations Ford *	Charlotte	0	10	0	0	10				
	34-2309	Presbyterian Hospital	Charlotte	2	0	0	0	2	2	0	0.0%	0.00
MITCHELL								0				
MONTGOMERY	34-2583	Dialysis Care of Montgomery County	Troy	8	0	0	0	8	8	24	75.0%	3.00
MOORE	34-2555	Dialysis Care of Pinehurst (Moore Cnty.)	Pinehurst	25	0	0	0	25	25	81	81.0%	3.24
NASH	34-2517	Rocky Mount Kidney Center (BMA)	Rocky Mount	41	0	-15	8	34	41	145	88.4%	3.54
NEW HANOVER	34-2511	Southeastern Dialysis Center Inc.	Wilmington	51	-18	0	0	33	41	172	104.9%	4.20
	n/a	Cape Fear Center (Southeastern Dialysis) *	Wilmington	0	18	0	0	18				

* Proposed new site composed of existing dialysis stations. Utilization of existing stations included with current location shown above.

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				Certified	CON Issued /Not Cert.	Decision Rendered	Decision Pending	TOTAL			By Percent	Patients per Station
NORTHAMPTON	34-2586	BMA of Rich Square (Northampton Co.)	Rich Square	10	0	0	0	10	10	33	82.5%	3.30
ONSLOW	34-2532	Southeastern Dialysis Ctr. Jacksonville	Jacksonville	24	0	0	0	24	18	74	102.8%	4.11
ORANGE	34-2305	UNC Hospitals (Carolina Dia. Carrboro)	Chapel Hill	25	2	0	0	27	23	90	97.8%	3.91
PAMLICO								0				
PASQUOTANK	34-2515	Gambro Healthcare Elizabeth City	Elizabeth City	16	0	0	0	16	16	60	93.8%	3.75
PENDER	34-2558	Southeastern Dialysis Center Inc.	Burgaw	13	0	0	0	13	13	42	80.8%	3.23
PERQUIMANS								0				
PERSON	34-2562	Gambro Healthcare-Roxboro	Roxboro	11	0	0	0	11	11	48	109.1%	4.36
PITT	34-2502	Greenville Dialysis Center (BMA)	Greenville	50	-13	0	0	37	50	185	92.5%	3.70
	n/a	BMA of East Carolina University *	Greenville	0	25	0	0	25				
	34-2303	Pitt County Memorial Hospital	Greenville	6	0	0	0	6	6	11	45.8%	1.83
POLK	n/a	Vivra Renal Care of Polk County	Columbus	0	11	0	0	11	0	0	0.0%	0.00
RANDOLPH	34-2524	Bio-Medical Applications of Asheboro	Asheboro	21	0	0	0	21	21	60	71.4%	2.86
RICHMOND	34-2539	Dialysis Care of Hamlet (Richmond Cnty.)	Hamlet	21	0	0	0	21	21	52	61.9%	2.48
ROBESON	34-2528	Lumberton Dialysis Unit (BMA)	Lumberton	40	0	0	0	40	40	137	85.6%	3.43
	n/a	*(Three applications were submitted for the September, 1997 County Need Determination.)*					10	10	0	0	0.0%	0.00
ROCKINGHAM	34-2536	Dialysis Care of Rockingham County	Eden	18	0	0	0	18	18	50	69.4%	2.78
	34-2574	Gambro Healthcare Reidsville	Reidsville	8	0	0	0	8	8	17	53.1%	2.13
ROWAN	34-2546	Dialysis Care of Salisbury (Rowan Co.)	Salisbury	37	-10	0	0	27	37	59	39.9%	1.59
	n/a	Dialysis Care of Rowan County *	Kannapolis	0	10	0	0	10				
RUTHERFORD	34-2566	Dialysis Care of Rutherford County	Forest City	14	0	0	0	14	14	48	85.7%	3.43
SAMPSON	34-2559	BMA of Clinton	Clinton	28	0	0	0	28	28	84	75.0%	3.00
SCOTLAND	34-2540	Laurinburg Dialysis Center (BMA of)	Laurinburg	15	5	0	0	20	15	54	90.0%	3.60
STANLY	34-2565	Metrolina of Albemarle (BMA Albemarle)	Albemarle	10	0	3	0	13	8	35	109.4%	4.38
STOKES								0				
SURRY	34-2551	Mt. Airy Dialysis Center	Mt. Airy	23	0	0	0	23	23	65	70.7%	2.83
SWAIN	n/a	Swain County Dialysis	Cherokee	0	14	0	0	14	0	0	0.0%	0.00
TRANSYLVANIA								0				
TYRRELL								0				
UNION	34-2525	Metrolina Kidney Center (Monroe)	Monroe	12	0	0	0	12	12	37	77.1%	3.08
	34-2526	Gambro Healthcare Monroe	Monroe	13	3	0	0	16	13	60	115.4%	4.62

* Proposed new site composed of existing dialysis stations. Utilization of existing stations included with current location shown above.

Table A: Inventory of Dialysis Stations and Calculation of Utilization Rates

(Inventory Compiled 3/12/98; Utilization Rates Calculated for 12/31/97)

COUNTY	PROVIDER NUMBER	FACILITY	CITY	Number of Dialysis Stations as of 3/12/98					Certified Stations 12/31/97	# In-Center Patients 12/31/97	Utilization Rate	
				Certified	CON Issued /Not Cert.	Decision Rendered	Decision Pending	TOTAL			By Percent	Patients per Station
VANCE	34-2543	Gambro Healthcare-Henderson	Henderson	23	10	0	-16	17	23	116	126.1%	5.04
	n/a	Gambro Healthcare - Relocation *	Henderson	0	0	0	16	16				
WAKE	34-2544	Cary Kidney Center	Cary	9	4	0	4	17	9	44	122.2%	4.89
	34-2512	Raleigh Clinic Dialysis (BMA)	Raleigh	39	0	0	0	39	39	136	87.2%	3.49
	34-2589	Zebulon Kidney Center (BMA)	Zebulon	8	0	0	0	8	8	23	71.9%	2.88
	34-2522	Wake Dialysis Clinic	Raleigh	48	0	0	0	48	48	133	69.3%	2.77
WARREN								0				
WASHINGTON								0				
WATAUGA	34-2311	Watauga Kidney Dialysis Center	Boone	8	0	0	0	8	8	30	93.8%	3.75
WAYNE	34-2531	Gambro Healthcare-Goldsboro	Goldsboro	15	0	0	0	15	15	70	116.7%	4.67
	34-2587	Gambro Healthcare-Goldsboro South	Goldsboro	15	0	0	0	15	15	72	120.0%	4.80
	34-2573	Gambro Healthcare-Mount Olive	Mount Olive	11	0	0	0	11	11	44	100.0%	4.00
	34-2576	Dialysis Care of Goldsboro (Wayne Cnty.)	Goldsboro	11	0	0	0	11	11	16	36.4%	1.45
WILKES	34-2313	Wilkes Regional Medical Center	N. Wilkesboro	7	0	0	0	7	7	21	75.0%	3.00
WILSON	34-2507	Gambro Healthcare-Wilson	Wilson	31	9	0	-20	20	31	132	106.5%	4.26
	n/a	Gambro Healthcare - Wilson East *	Wilson	0	0	0	20	20				
YADKIN								0				
YANCEY								0				
STATE TOTALS				1,993	138	46	59	2,236	1,969	6,724		

* Proposed new site composed of existing dialysis stations. Utilization of existing stations included with current location shown above.

Table B: ESRD Dialysis Station Need Determinations by County

COUNTY	12/31/93 Total Patients	12/31/94 Total Patients	12/31/95 Total Patients	12/31/96 Total Patients	12/31/97 Total Patients	Average Annual Change Rate for Past Five Years	Projected 12/31/98 Total Patients	12/31/97 Home Patients	12/31/97 % Home Patients	Projected 12/31/98 Home Patients	Projected 12/31/98 In-Center Patients	Projected 12/31/98 In-Center Station Utilization	Total Available Stations	Projected Station Deficit or Surplus	County Station Need Determination
Alamance	88	96	91	117	130	0.109	144.2	17	13.1%	18.9	125.3	39	35	4	0
Alexander	14	14	11	19	16	0.089	17.4	6	37.5%	6.5	10.9	3	0	3	0
Alleghany	3	5	4	5	4	0.129	4.5	2	50.0%	2.3	2.3	1	0	1	0
Anson	31	29	24	37	39	0.090	42.5	6	15.4%	6.5	36.0	11	8	3	0
Ashe	8	5	7	9	12	0.161	13.9	2	16.7%	2.3	11.6	4	0	4	0
Avery	5	5	6	4	7	0.154	8.1	3	42.9%	3.5	4.6	1	0	1	0
Beaufort	44	46	40	48	57	0.076	61.3	6	10.5%	6.5	54.9	17	17	0	0
Bertie	27	28	26	28	46	0.171	53.9	3	6.5%	3.5	50.4	16	16	0	0
Bladen	31	34	31	40	42	0.087	45.7	6	14.3%	6.5	39.1	12	13	Surplus of 1	0
Brunswick	41	44	45	50	54	0.072	57.9	9	16.7%	9.6	48.2	15	11	4	0
Buncombe	107	107	117	126	160	0.110	177.6	39	24.4%	43.3	134.3	42	40	2	0
Burke	50	46	49	57	62	0.059	65.7	13	21.0%	13.8	51.9	16	15	1	0
Cabarrus	63	79	63	95	95	0.140	108.3	16	16.8%	18.2	90.0	28	29	Surplus of 1	0
Caldwell	62	65	71	76	68	0.026	69.8	5	7.4%	5.1	64.7	20	20	0	0
Camden	8	10	8	10	9	0.050	9.5	0	0.0%	0.0	9.5	3	0	3	0
Carteret	22	21	21	30	32	0.112	35.6	6	18.8%	6.7	28.9	9	9	0	0
Caswell	20	25	29	28	33	0.139	37.6	6	18.2%	6.8	30.7	10	10	0	0
Catawba	71	73	74	94	101	0.097	110.8	22	21.8%	24.1	86.6	27	28	Surplus of 1	0
Chatham	33	38	45	51	51	0.117	57.0	3	5.9%	3.4	53.6	17	9	8	0
Cherokee	6	11	10	7	11	0.253	13.8	4	36.4%	5.0	8.8	3	0	3	0
Chowan	20	20	19	22	30	0.118	33.5	3	10.0%	3.4	30.2	9	17	Surplus of 8	0
Clay	3	5	2	4	6	0.392	8.4	1	16.7%	1.4	7.0	2	0	2	0
Cleveland	63	72	64	90	96	0.126	108.1	16	16.7%	18.0	90.1	28	22	6	0
Columbus	46	51	52	72	75	0.139	85.4	9	12.0%	10.2	75.2	23	18	5	0
Craven	60	76	77	81	103	0.151	118.5	8	7.8%	9.2	109.3	34	47	Surplus of 13	0
Cumberland	200	211	203	273	299	0.114	333.2	42	14.0%	46.8	286.4	89	89	0	0
Currituck	8	7	6	7	7	-0.025	6.8	1	14.3%	1.0	5.8	2	0	2	0
Dare	8	9	7	12	13	0.175	15.3	4	30.8%	4.7	10.6	3	4	Surplus of 1	0
Davidson	84	74	72	85	93	0.032	96.0	18	19.4%	18.6	77.4	24	29	Surplus of 5	0
Davie	11	13	12	13	16	0.105	17.7	2	12.5%	2.2	15.5	5	0	5	0
Duplin	49	53	48	71	73	0.124	82.0	8	11.0%	9.0	73.0	23	15	8	0
Durham	211	235	237	259	270	0.064	287.4	30	11.1%	31.9	255.5	80	90	Surplus of 10	0
Edgecombe	84	78	85	116	118	0.100	129.8	18	15.3%	19.8	110.0	34	30	4	0
Forsyth	306	365	323	345	394	0.072	422.4	60	15.2%	64.3	358.0	112	127	Surplus of 15	0
Franklin	39	46	43	55	57	0.107	63.1	5	8.8%	5.5	57.6	18	16	2	0
Gaston	95	113	104	128	145	0.118	162.2	31	21.4%	34.7	127.5	40	36	4	0
Gates	12	11	10	12	13	0.027	13.4	0	0.0%	0.0	13.4	4	0	4	0
Graham	4	6	6	5	4	0.033	4.1	1	25.0%	1.0	3.1	1	0	1	0

Table B: ESRD Dialysis Station Need Determinations by County

COUNTY	12/31/93 Total Patients	12/31/94 Total Patients	12/31/95 Total Patients	12/31/96 Total Patients	12/31/97 Total Patients	Average Annual Change Rate for Past Five Years	Projected 12/31/98 Total Patients	12/31/97 Home Patients	12/31/97 % Home Patients	Projected 12/31/98 Home Patients	Projected 12/31/98 In-Center Patients	Projected 12/31/98 In-Center Station Utilization	Total Available Stations	Projected Station Deficit or Surplus	County Station Need Determination
Granville	44	52	54	59	67	0.112	74.5	9	13.4%	10.0	64.5	20	18	2	0
Greene	14	17	16	23	29	0.213	35.2	5	17.2%	6.1	29.1	9	0	9	0
Guilford	301	352	337	424	461	0.118	515.4	49	10.6%	54.8	460.6	144	153	Surplus of 9	0
Halifax	68	64	70	86	103	0.115	114.9	18	17.5%	20.1	94.8	30	21	9	0
Harnett	51	65	64	75	89	0.154	102.7	13	14.6%	15.0	87.7	27	30	Surplus of 3	0
Haywood	17	17	19	26	35	0.208	42.3	16	45.7%	19.3	23.0	7	0	7	0
Henderson	22	25	25	35	44	0.198	52.7	16	36.4%	19.2	33.6	10	10	0	0
Hertford	26	21	26	39	32	0.092	34.9	3	9.4%	3.3	31.7	10	16	Surplus of 6	0
Hoke	25	33	33	34	51	0.213	61.8	2	3.9%	2.4	59.4	19	15	4	0
Hyde	8	5	6	7	6	-0.038	5.8	1	16.7%	1.0	4.8	2	0	2	0
Iredell	77	81	75	101	111	0.106	122.8	23	20.7%	25.4	97.3	30	36	Surplus of 6	0
Jackson	10	13	13	10	30	0.517	45.5	6	20.0%	9.1	36.4	11	19	Surplus of 8	0
Johnston	81	80	72	93	112	0.096	122.7	20	17.9%	21.9	100.8	32	34	Surplus of 2	0
Jones	8	7	9	10	19	0.293	24.6	0	0.0%	0.0	24.6	8	0	8	0
Lee	42	55	47	64	93	0.245	115.8	17	18.3%	21.2	94.6	30	22	8	0
Lenoir	94	101	103	120	129	0.084	139.8	16	12.4%	17.3	122.4	38	41	Surplus of 3	0
Lincoln	13	18	15	25	28	0.251	35.0	5	17.9%	6.3	28.8	9	17	Surplus of 8	0
Macon	10	7	6	12	8	0.056	8.4	4	50.0%	4.2	4.2	1	0	1	0
Madison	6	6	7	5	5	-0.030	4.9	1	20.0%	1.0	3.9	1	0	1	0
Martin	30	39	39	39	47	0.126	52.9	5	10.6%	5.6	47.3	15	18	Surplus of 3	0
McDowell	9	13	16	21	23	0.271	29.2	8	34.8%	10.2	19.1	6	0	6	0
Mecklenburg	365	395	374	456	535	0.105	591.4	114	21.3%	126.0	465.4	145	141	4	0
Mitchell	4	3	3	5	3	0.004	3.0	3	100.0%	3.0	0.0	0	0	0	0
Montgomery	26	25	26	33	40	0.121	44.8	6	15.0%	6.7	38.1	12	8	4	0
Moore	54	59	52	69	79	0.111	87.8	6	7.6%	6.7	81.1	25	25	0	0
Nash	69	66	67	83	95	0.089	103.4	20	21.1%	21.8	81.7	26	34	Surplus of 8	0
New Hanover	113	117	101	132	151	0.087	164.2	23	15.2%	25.0	139.2	43	51	Surplus of 8	0
Northampton	41	38	32	38	41	0.009	41.4	9	22.0%	9.1	32.3	10	10	0	0
Onslow	46	60	59	82	76	0.151	87.5	14	18.4%	16.1	71.4	22	24	Surplus of 2	0
Orange	79	68	60	79	74	-0.001	73.9	9	12.2%	9.0	64.9	20	27	Surplus of 7	0
Pamlico	10	8	11	15	10	0.051	10.5	2	20.0%	2.1	8.4	3	0	3	0
Pasquotank	30	39	30	39	45	0.131	50.9	9	20.0%	10.2	40.7	13	16	Surplus of 3	0
Pender	41	47	46	50	52	0.063	55.3	4	7.7%	4.3	51.0	16	13	3	0
Perquimans	6	10	11	15	14	0.266	17.7	1	7.1%	1.3	16.5	5	0	5	0
Person	39	37	37	42	50	0.069	53.4	1	2.0%	1.1	52.4	16	11	5	0
Pitt	125	148	147	177	187	0.109	207.5	31	16.6%	34.4	173.1	54	68	Surplus of 14	0
Polk	9	10	11	16	18	0.198	21.6	5	27.8%	6.0	15.6	5	11	Surplus of 6	0
Randolph	57	56	52	63	72	0.066	76.8	12	16.7%	12.8	64.0	20	21	Surplus of 1	0

Table B: ESRD Dialysis Station Need Determinations by County

COUNTY	12/31/93 Total Patients	12/31/94 Total Patients	12/31/95 Total Patients	12/31/96 Total Patients	12/31/97 Total Patients	Average Annual Change Rate for Past Five Years	Projected 12/31/98 Total Patients	12/31/97 Home Patients	12/31/97 % Home Patients	Projected 12/31/98 Home Patients	Projected 12/31/98 In-Center Patients	Projected 12/31/98 In-Center Station Utilization	Total Available Stations	Projected Station Deficit or Surplus	County Station Need Determination
Richmond	36	45	46	66	62	0.162	72.0	12	19.4%	13.9	58.1	18	21	Surplus of 3	0
Robeson	133	153	140	156	171	0.069	182.8	19	11.1%	20.3	162.5	51	50	1	0
Rockingham	72	89	87	95	114	0.126	128.4	16	14.0%	18.0	110.4	34	26	8	0
Rowan	113	115	92	83	104	-0.007	103.3	27	26.0%	26.8	76.5	24	37	Surplus of 13	0
Rutherford	18	32	31	43	61	0.388	84.7	14	23.0%	19.4	65.2	20	14	6	0
Sampson	63	73	85	87	104	0.136	118.1	8	7.7%	9.1	109.0	34	28	6	0
Scotland	50	43	42	49	43	-0.030	41.7	7	16.3%	6.8	34.9	11	20	Surplus of 9	0
Stanly	25	26	20	32	46	0.212	55.7	12	26.1%	14.5	41.2	13	13	0	0
Stokes	16	19	16	15	17	0.025	17.4	5	29.4%	5.1	12.3	4	0	4	0
Surry	30	38	35	52	52	0.168	60.8	5	9.6%	5.8	54.9	17	23	Surplus of 6	0
Swain	16	22	23	37	24	0.169	28.1	2	8.3%	2.3	25.7	8	14	Surplus of 6	0
Transylvania	12	15	16	18	21	0.152	24.2	12	57.1%	13.8	10.4	3	0	3	0
Tyrrell	0	0	0	3	3	*	*	2	*	*	*	*	0	*	0
Union	60	60	49	59	76	0.077	81.9	11	14.5%	11.8	70.0	22	28	Surplus of 6	0
Vance	52	71	77	88	94	0.165	109.5	7	7.4%	8.2	101.4	32	33	Surplus of 1	0
Wake	303	317	295	409	417	0.096	456.9	93	22.3%	101.9	355.0	111	112	Surplus of 1	0
Warren	20	16	15	21	19	0.011	19.2	1	5.3%	1.0	18.2	6	0	6	0
Washington	19	23	22	20	20	0.019	20.4	0	0.0%	0.0	20.4	6	0	6	0
Watauga	16	15	15	18	16	0.007	16.1	2	12.5%	2.0	14.1	4	8	Surplus of 4	0
Wayne	151	170	173	189	207	0.083	224.1	17	8.2%	18.4	205.7	64	52	12	0 **
Wilkes	18	23	19	27	35	0.205	42.2	5	14.3%	6.0	36.2	11	7	4	0
Wilson	92	102	85	121	121	0.091	132.1	6	5.0%	6.5	125.5	39	40	Surplus of 1	0
Yadkin	8	12	11	16	16	0.218	19.5	2	12.5%	2.4	17.0	5	0	5	0
Yancey	6	7	6	10	11	0.198	13.2	4	36.4%	4.8	8.4	3	0	3	0
Unknown	257	341	979	77	73										

* When a county had zero patients at the end of any of the previous five years, the average annual rate of change in dialysis patients for that county could not be calculated. There is no projected need for new stations in these counties.

** Pursuant to 10 NCAC 3R .6124(b)(1)(E), "Table B" indicates a "Projected Station Deficit" of 12 stations in Wayne County, but "Table A" shows that one facility in Wayne County (Dialysis Care of Goldsboro) was operating below 80% utilization; therefore, the County's station need determination is zero.

Table C: Need Determinations for New Dialysis Stations by County

(Based on the "County Need" Methodology -- March, 1998)

COUNTY	HSA	Number of New Dialysis Stations Needed	Certificate of Need Application Due Date	Certificate of Need Beginning Review Date
Application of the "County Need" Methodology resulted in no dialysis station need determinations for the March 1998 Semiannual Dialysis Report.				