Cascade Kidney Center - Center Hemodialysis
### Quality Assurance Reports (Excludes patients in first 3 months of treatment - as of Dec. 31, 2002)
### Through period ending Dec. 31, 2002

I. ADEQUACY OF DIALYSIS

	J	F	M	A	M	J	J	A	S	O	N	D
# eKt/V	50	48	48	47	49	48	50	49	43	52	54	61
# eKt/V >= 1.2	43	36	40	32	39	39	42	39	36	43	47	49
Pop. Mean =	1.35	1.31	1.37	1.28	1.32	1.33	1.37	1.33	1.35	1.53	1.40	1.39
Std. Deviation =	0.19	0.21	0.19	0.23	0.23	0.17	0.21	0.21	0.22	0.56	0.25	0.32
Network Mean =												
Natl. Mean =												
% eKt/V >= 1.2	86%	75%	83%	68%	80%	81%	84%	80%	84%	83%	87%	80%

% eKt/V >= 1.2
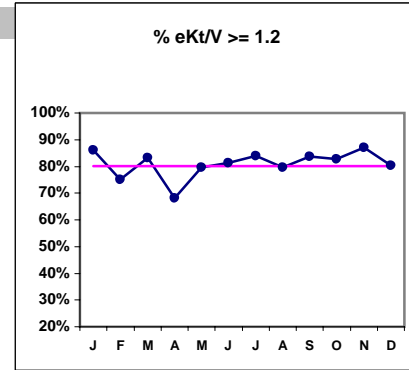
	J	F	M	A	M	J	J	A	S	O	N	D
# URR	50	49	48	47	50	49	50	49	45	53	54	61
# URR >= 65.0	47	45	47	39	45	46	46	47	40	48	50	56
Pop. Mean =	73.1	72.3	74.0	71.2	72.4	72.6	73.8	73.1	73.2	75.1	74.7	74
Std. Deviation =	4.83	6.01	4.80	6.52	6.49	5.57	6.06	5.81	5.82	10.8	6.1	6.9
*Network Mean =	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
Natl. Mean =	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
% URR >= 65.0	94%	92%	98%	83%	90%	94%	92%	96%	89%	91%	93%	92%
*Network % > 65.0	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%
*Natl. % > 65.0	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%	82%
* Figures for 2000												

% URR >= 65.0
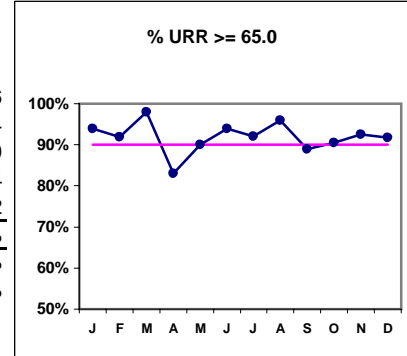
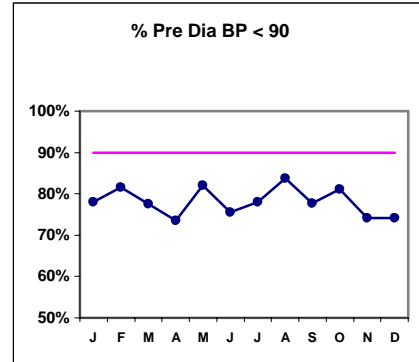|	J	F	M	A	M	J	J	A	S	O	N	D
# Kt/V	50	48	48	47	49	48	50	49	43	52	54	61
# Kt/V >= 1.4	42	35	41	34	38	41	42	38	35	43	46	49
Pop. Mean =	1.57	1.52	1.60	1.49	1.54	1.55	1.60	1.55	1.57	1.78	1.64	1.62
Std. Deviation =	0.22	0.25	0.22	0.27	0.28	0.20	0.24	0.25	0.26	0.66	0.29	0.39
Network Mean =	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
Natl. Mean 1999 =	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
% Kt/V >= 1.4	84%	73%	85%	72%	78%	85%	84%	78%	81%	83%	85%	80%
% Kt/V > 1.2	94%	94%	96%	83%	90%	96%	92%	92%	93%	90%	89%	93%
Network > 1.2 '00	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%
Natl. % > 1.2 - 2001	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%	91%

% Kt/V >= 1.4

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.

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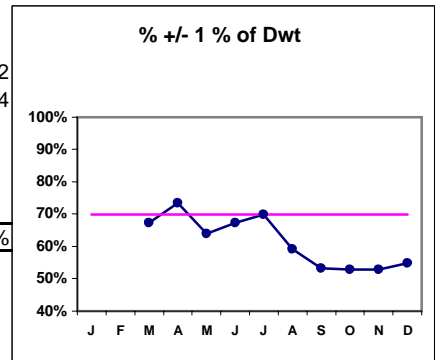
I. ADEQUACY OF DIALYSIS - CONT.

	J	F	M	A	M	J	J	A	S	O	N	D
Blood Pressure Control (Pre)												
# Pre Dia BP	50	49	49	49	50	49	50	49	45	53	54	62
# Pre Dia BP < 90	39	40	38	36	41	37	39	41	35	43	40	46
Pop. Mean =	81	81	81	85	79	82	81	81	82	81	83	82
Std. Deviation =	14.1	12.5	13.1	18.7	12.4	17.2	12.2	14.5	20.8	15.7	16.4	13.2
Network Mean =												
Natl. Mean =												
% Pre Dia BP < 90	78%	82%	78%	73%	82%	76%	78%	84%	78%	81%	74%	74%

% Pre Dia BP < 90

	J	F	M	A	M	J	J	A	S	O	N	D
# Pre Sys BP	50	49	49	49	50	49	50	49	45	53	54	62
# Pre Sys BP < 150	25	21	22	23	28	25	23	22	15	18	15	18
Pop. Mean =	154	154	153	152	150	149	150	150	154	155	155	158
Std. Deviation =	21.7	20.2	21.3	21.4	21.7	20.6	23	21.3	22.3	23.4	24.2	22.7
Network Mean =												
Natl. Mean =												
%Pre Sys BP <150	50%	43%	45%	47%	56%	51%	46%	45%	33%	34%	28%	29%

% Pre Sys BP < 150
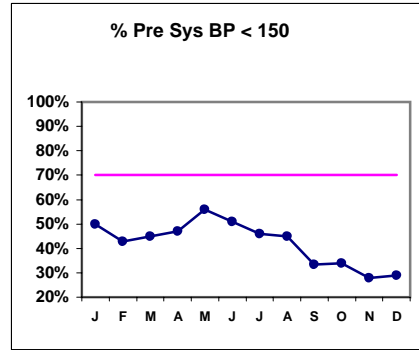
	J	F	M	A	M	J	J	A	S	O	N	D
# Post/Dwt			49	49	50	49	50	49	45	53	53	62
# +/- 1% Dwt			33	36	32	33	35	29	24	28	28	34
% +/- 1% of Dwt			67%	73%	64%	67%	70%	59%	53%	53%	53%	55%

% +/- 1 % of Dwt

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.
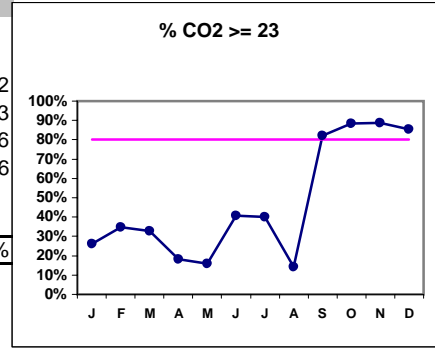
Cascade Kidney Center - Center Hemodialysis
Quality Assurance Reports (Excludes patients in first 3 months of treatment - as of Dec. 31, 2002)
Through period ending Dec. 31, 2002

I. ADEQUACY OF DIALYSIS - CONT.

	J	F	M	A	M	J	J	A	S	O	N	D
# CO2	50	49	49	49	50	49	50	49	45	52	54	62
# CO2 >= 23	13	17	16	9	8	20	20	7	37	46	48	53
Pop. Mean =	21	21	21	20	20	22	22	20	26	25	26	26
Std. Deviation =	2.15	2.33	2.74	2.54	2.38	3.83	2.62	2.25	2.76	4.35	2.59	2.86
Network Mean =												
Natl. Mean =												
% CO2 >= 23	26%	35%	33%	18%	16%	41%	40%	14%	82%	88%	89%	85%

% CO2 >= 23

Cascade Kidney Center - Center Hemodialysis
**Quality Assurance Reports (Excludes patients in first 3 months of treatment - as of Dec. 31, 2002)**
Through period ending Dec. 31, 2002

***Albumin values use BCG method - as of July 2001**

II. NUTRITION

	J	F	M	A	M	J	J	A	S	O	N	D
# Albumin	50	49	49	49	50	49	50	49	45	52	54	62
# Albumin >= 3.5	31	36	35	36	33	33	41	38	31	40	37	44
Pop. Mean =	3.5	3.6	3.6	3.7	3.6	3.6	3.8	3.6	3.6	3.6	3.6	3.6
Std. Deviation =	0.29	0.29	0.29	0.33	0.29	0.32	0.35	0.31	0.28	0.31	0.31	0.38
*Network Mean =	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Natl. Mean =	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
% Alb >= 3.5	62%	73%	71%	73%	66%	67%	82%	78%	69%	77%	69%	71%
CKC % >= 3.7	38%	49%	49%	57%	36%	43%	62%	51%	47%	42%	41%	42%
CKC % >= 4.0	2%	10%	10%	14%	10%	14%	26%	12%	13%	17%	13%	13%
*Natl % >= 3.5-BCG	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%
*Natl. % >= 4.0-BC(	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%
*Netwk%>=3.5 BC(	79%	79%	79%	79%	79%	79%	79%	79%	79%	79%	79%	79%
*Netwk%>=4.0 BC(	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%	29%

*Figures for 2000

% Albs >= 3.5
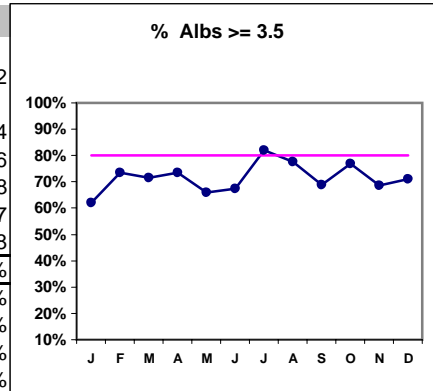
	J	F	M	A	M	J	J	A	S	O	N	D
# PCR/DPI	50	48	48	47	49	48	50	49	43	52	54	61
# PCR/DPI >= 1.2	19	20	20	17	23	19	25	17	14	24	25	24
Pop. Mean =	1.09	1.1	1.12	1.06	1.13	1.05	1.15	1.05	1.05	1.1	1.1	1.01
Std. Deviation =	0.3	0.3	0.24	0.26	0.24	0.26	0.23	0.25	0.24	0.29	0.27	0.25
Network Mean =												
Natl. Mean =												
% PCR/DPI >= 1.2	38%	42%	42%	36%	47%	40%	50%	35%	33%	46%	46%	39%
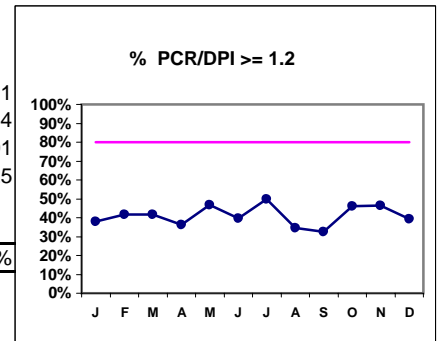
% PCR/DPI >= 1.2

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.

Cascade Kidney Center - Center Hemodialysis
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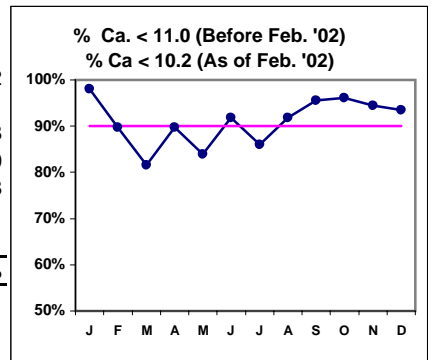
III. OSTEODYSTROPHY

	J	F	M	A	M	J	J	A	S	O	N	D
# PO4	50	49	49	49	50	49	50	49	45	52	54	62
# PO4 < 6.0	34	29	28	30	35							
# PO4 < 5.5						27	30	31	27	33	28	41
Pop. Mean =	5.4	5.6	5.5	5.5	5.3	5.5	5.3	5.2	5.2	5.0	5.2	4.9
Std. Deviation	1.76	2	1.82	1.84	1.55	1.86	1.57	1.51	1.7	1.47	1.66	1.47
Network Mean =												
Natl. Mean =												
% PO4 < 6.0 or 5.5	68%	59%	57%	61%	70%	55%	60%	63%	60%	63%	52%	66%

% PO4 < 6.0 (Before June '02)
% PO4 < 5.5 (As of June '02)
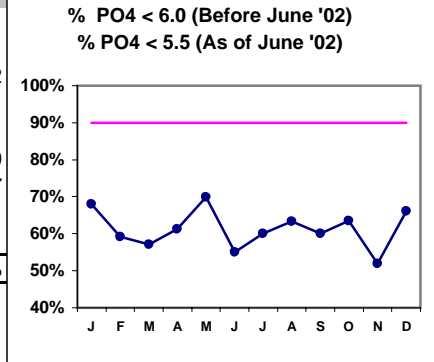
	J	F	M	A	M	J	J	A	S	O	N	D
# PO4	50	49	49	49	50	49	50	49	45	52	54	62
# PO4 > 3.0	46	43	46	46	46							
# PO4 > 3.5						42	41	43	37	40	46	49
Pop. Mean =	5.4	5.6	5.5	5.5	5.3	5.5	5.3	5.2	5.2	5.0	5.2	4.9
Std. Deviation	1.76	2	1.82	1.84	1.55	1.86	1.57	1.51	1.7	1.47	1.66	1.47
Network Mean =												
Natl. Mean =												
% PO4 > 3.0 or 3.5	92%	88%	94%	94%	92%	86%	82%	88%	82%	77%	85%	79%

% PO4 > 3.0 (Before June '02)
% PO4 > 3.5 (As of June '02)
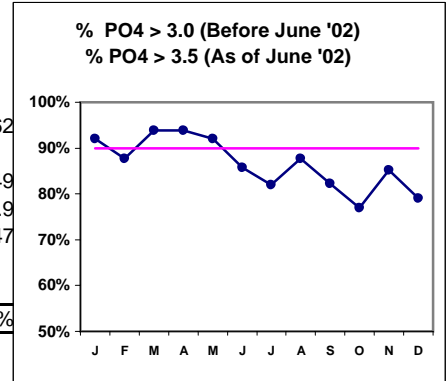
	J	F	M	A	M	J	J	A	S	O	N	D
# Calcium	50	49	49	49	50	49	50	49	45	52	54	62
# Calcium < 11.0	49											
# Calcium < 10.2		44	40	44	42	45	43	45	43	50	51	58
Pop. Mean =	9.1	9.1	9.3	9.3	9.4	9.2	9.4	9.1	9.1	9.1	9.1	9.0
Std. Deviation	0.78	0.88	0.86	0.79	0.84	0.82	0.8	0.82	0.82	0.81	0.84	0.8
Network Mean =												
Natl. Mean =												
% Ca < 11.0 or 10.2	98%	90%	82%	90%	84%	92%	86%	92%	96%	96%	94%	94%

% Ca. < 11.0 (Before Feb. '02)
% Ca < 10.2 (As of Feb. '02)

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.

## Cascade Kidney Center - Center Hemodialysis
Quality Assurance Reports (Excludes patients in first 3 months of treatment - as of Dec. 31, 2002)
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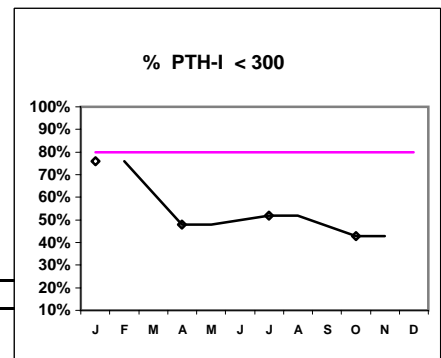## III. OSTEODYSTROPHY - CONT.

	J	F	M	A	M	J	J	A	S	O	N	D
# Calcium	50	49	49	49	50	49	50	49	45	52	54	62
# Calcium > 8.5	39	38	41	41	43	40	46	40	37	40	43	43
Pop. Mean =	9.1	9.1	9.3	9.3	9.4	9.2	9.4	9.1	9.1	9.1	9.1	9.0
Std. Deviation =	0.78	0.88	0.86	0.79	0.84	0.82	0.8	0.82	0.82	0.81	0.84	0.8
Network Mean =												
Natl. Mean =												
% Calcium > 8.5	78%	78%	84%	84%	86%	82%	92%	82%	82%	77%	80%	69%

% Calcium > 8.5
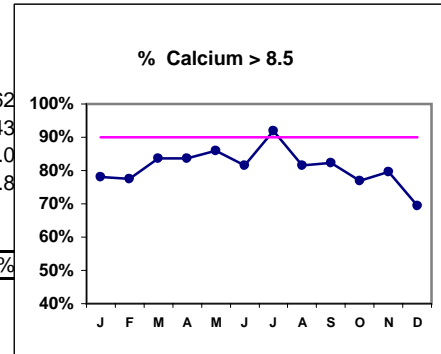
	J			A			M			J			J
# PTH-I	50			25			50			7			
# PTH-I > 100	36			20			39			7			
Pop. Mean =	280			411			405			564			
Std. Deviation =	309			318			417			483			
Network Mean =													
Natl. Mean =													
% PTH-I > 100	72%			80%			78%			####			

% PTH-I > 100
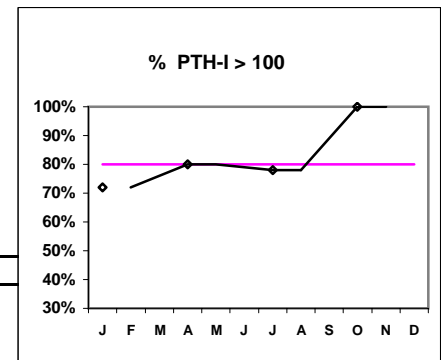
# PTH-I	50			25			50			7		
# PTH-I < 300	38			12			26			3		
Pop. Mean =	280			411			405			564		
Std. Deviation =	309			318			417			483		
Network Mean =												
Natl. Mean =												
% PTH-I < 300	76%			48%			52%			43%		

% PTH-I < 300

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.
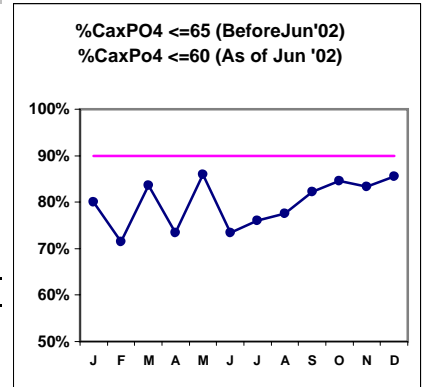
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III. OSTEODYSTROPHY - CONT.

	J	F	M	A	M	J	J	A	S	O	N	D
# Ca x PO4	50	49	49	49	50	49	50	49	45	52	54	62
# Ca x PO4 <= 65	40	35	41	36	43							
# Ca x PO4 <= 60						36	38	38	37	44	45	53
Pop. Mean =	49.5	50.9	51.3	51.3	49.7	50.4	49.7	46.6	47.4	46.0	47.7	44.4
Std. Deviation =	17.1	18.8	16.9	17.9	14.3	15.9	14.8	13.2	14.5	15.1	16.2	14.7
Network Mean =												
Natl. Mean =												
CaxPO4 <= 65or60	80%	71%	84%	73%	86%	73%	76%	78%	82%	85%	83%	85%

%CaxPO4 <=65 (BeforeJun'02)
%CaxPo4 <=60 (As of Jun '02)

**Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.*

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IV. ACCESS

	J	F	M	A	M	J	J	A	S	O	N	D
# Access	50	49	49	49	50	49	50	49	45	53	54	62
# Fistula	25	24	26	25	26	26	27	27	24	27	27	29
Network %												
Natl. % - 2000	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
% Fistula	50%	49%	53%	51%	52%	53%	54%	55%	53%	51%	50%	47%

% Fistula
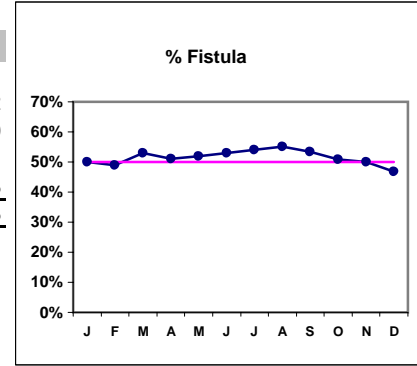
	J	F	M	A	M	J	J	A	S	O	N	D
# Access	50	49	49	49	50	49	50	49	45	53	54	62
# Graft	18	20	19	21	21	20	20	21	20	24	24	26
Network %												
Natl. %												
% Graft	36%	41%	39%	43%	42%	41%	40%	43%	44%	45%	44%	42%

% Graft
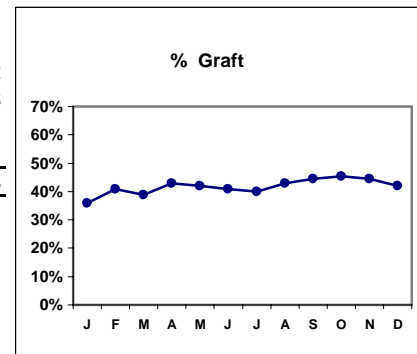
	J	F	M	A	M	J	J	A	S	O	N	D
# Access	50	49	49	49	50	49	50	49	45	53	54	62
# Other	7	5	4	3	3	3	3	1	1	2	3	7
Network %												
Natl. %												
% Other	14%	10%	8%	6%	6%	6%	6%	2%	2%	4%	6%	11%
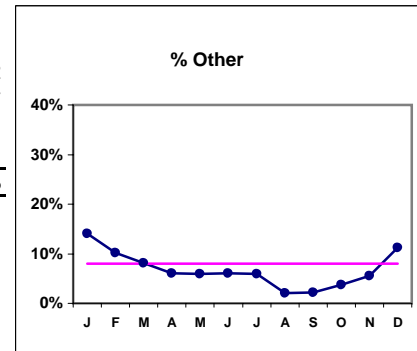
% Other

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.

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## *Hct. values use Coulter method - as of July 2001

V. ANEMIA

|	J	F	M	A	M	J	J	A	S	O	N	D
# Hct	50	49	49	49	50	49	50	49	45	53	54	62
# Hct > 30.0	48	48	48	48	48	47	47	48	42	47	48	59
Pop. Mean =	37.1	37.0	36.1	36.2	35.8	35.4	35.4	36.2	36.1	34.5	34.1	34.5
Std. Deviation =	3.55	3.51	3.58	3.16	3.31	3.27	3.41	3.51	3.60	4.47	3.47	3.48
Network Mean =	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
Natl. Mean =	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
% Hct > 30.0	96%	98%	98%	98%	96%	96%	94%	98%	93%	89%	89%	95%
*% Network > 30.0	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%	89%
% Natl. > 30.0	79%	79%	79%	79%	79%	79%	79%	79%	79%	79%	79%	79%

* Figures for 2000

% Hct > 30.0
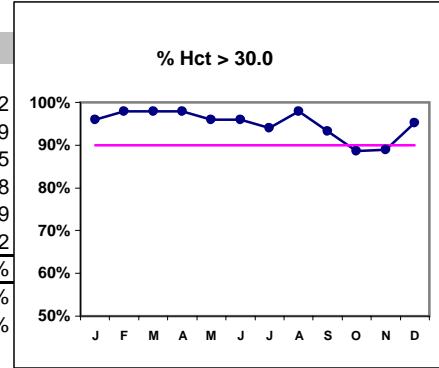
	J	F	M	A	M	J	J	A	S	O	N	D
# Hct	50	49	49	49	50	49	50	49	45	53	54	62
# Hct > 33.0	46	41	46	42	40	36	38	36	38	35	31	40
Pop. Mean =	37.1	37.0	36.1	36.2	35.8	35.4	35.4	36.2	36.1	34.5	34.1	34.5
Std. Deviation =	3.55	3.51	3.58	3.16	3.31	3.27	3.41	3.51	3.60	4.47	3.47	3.48
Network Mean =	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
Natl. Mean =	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
% Hct > 33.0	92%	84%	94%	86%	80%	73%	76%	73%	84%	66%	57%	65%
*% Network > 33.0	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%	74%
*% Natl. > 33.0	73%	73%	73%	73%	73%	73%	73%	73%	73%	73%	73%	73%

*Figures for 2000

% Hct > 33.0
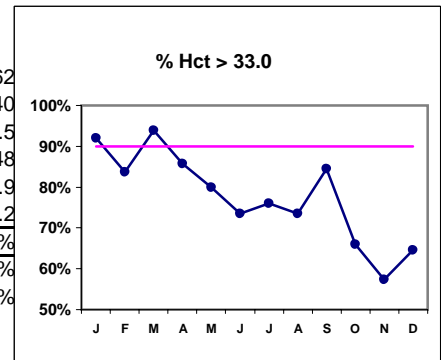
	J	F	M	A	M	J	J	A	S	O	N	D
# Hgb						49	50	49	45	53	54	62
# Hgb > 10.0						48	47	48	43	48	49	59
Pop. Mean =						11.8	11.9	12	12	11.5	11.5	11.7
Std. Deviation =						1.04	1.11	1.02	1.03	1.39	1.08	1.11
*Network Mean =	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
Natl. Mean =												
% Hgb > 10.0						98%	94%	98%	96%	91%	91%	95%
*% Network >= 10	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%	93%

*Figures for 2000

% Hgb > 10.0

Cascade Kidney Center - Center Hemodialysis

Quality Assurance Reports (Excludes patients in first 3 months of treatment - as of Dec. 31, 2002)
Through period ending Dec. 31, 2002

V. ANEMIA - CONT.

	J	F	M	A	M	J	J	A	S	O	N	D
# Hgb						49	50	49	45	53	54	62
# Hgb > 11.0						38	39	42	39	37	40	49
Pop. Mean =						11.8	11.9	12	12	11.5	11.5	11.7
Std. Deviation =						1.04	1.11	1.02	1.03	1.39	1.08	1.11
*Network Mean =	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
Natl. Mean =												
% Hgb > 11.0						78%	78%	86%	87%	70%	74%	79%
*% Network >= 11	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%	76%

*Figures for 2000

% Hgb > 11.0
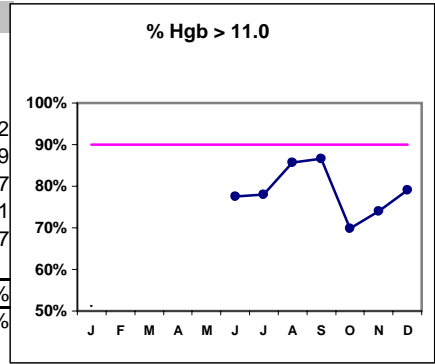
Iron Profile

# Ferritin	50	49	50	52
# Ferritin > 100	41	39	38	43
Pop. Mean =	279	313	324	343
Std. Deviation =	189	227	226	212
*Network Mean =	489	489	489	489
Natl. Mean =				
% Ferritin > 100	82%	80%	76%	83%
*% Network > 100	88%	88%	88%	88%

*Figures for 2000
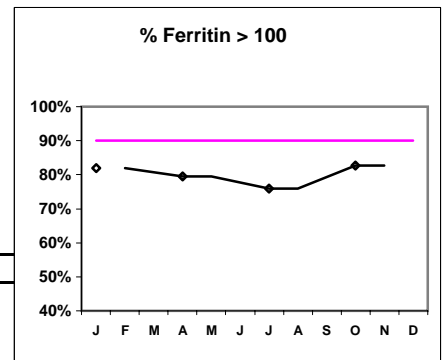
% Ferritin > 100

# Ferritin	50	49	50	52
# Ferritin < 800	49	48	49	51
Pop. Mean =	279	313	324	343
Std. Deviation =	189	227	226	212
*Network Mean =	489	489	489	489
Natl. Mean =				
% Ferritin < 800	98%	98%	98%	98%

*Figures for 2000
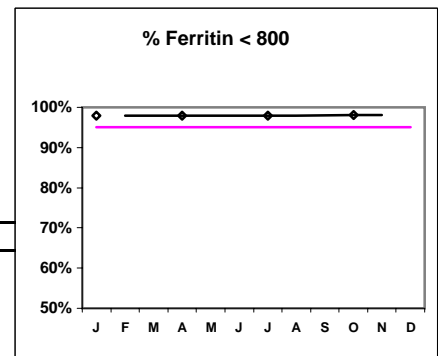
% Ferritin < 800

*Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.

Cascade Kidney Center - Center Hemodialysis
Quality Assurance Reports (Excludes patients in first 3 months of treatment - as of Dec. 31, 2002)
Through period ending Dec. 31, 2002
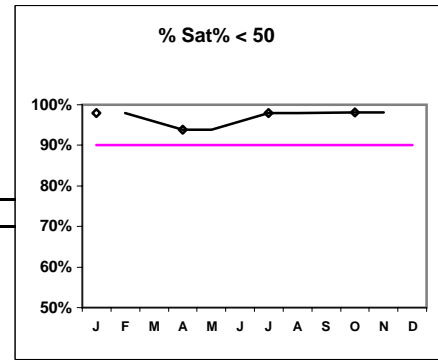
V. ANEMIA - CONT.

	J	F	M	A	M	J	J	A	S	O	N	D
# % Sat	50			49			50			52		
# % Sat > 20	34			35			35			38		
Pop. Mean =	25.5			29			27.3			26.3		
Std. Deviation =	10.5			12.6			10.4			9.07		
*Network Mean =	28			28			28			28		
Natl. Mean =												
% Sat% > 20	68%			71%			70%			73%		
*% Network > 20	71%			71%			71%			71%		
*Figures for 2000												

% Sat% > 20
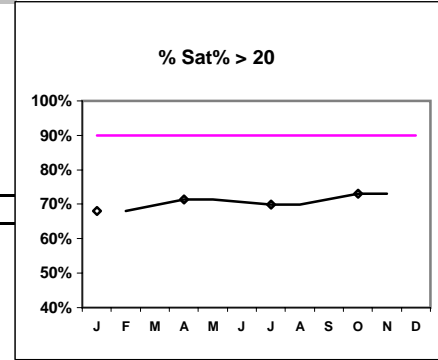
	J	F	M	A	M	J	J	A	S	O	N	D
# % Sat	50			49			50			52		
# % Sat < 50	49			46			49			51		
Pop. Mean =	25.5			29			27.3			26.3		
Std. Deviation =	10.5			12.6			10.4			9.07		
*Network Mean =	28			28			28			28		
Natl. Mean =												
% Sat% < 50	98%			94%			98%			98%		
*Figures for 2000												

% Sat% < 50

Methodology: a) Monthly values based on patient's montly average of all values present for the month; b) Quarter values are average of all values for quarter; c) Values not averaged use last value present at months end.