

CHRONIC PERITONEAL DIALYSIS
IN
GOVERNMENT CENTRES

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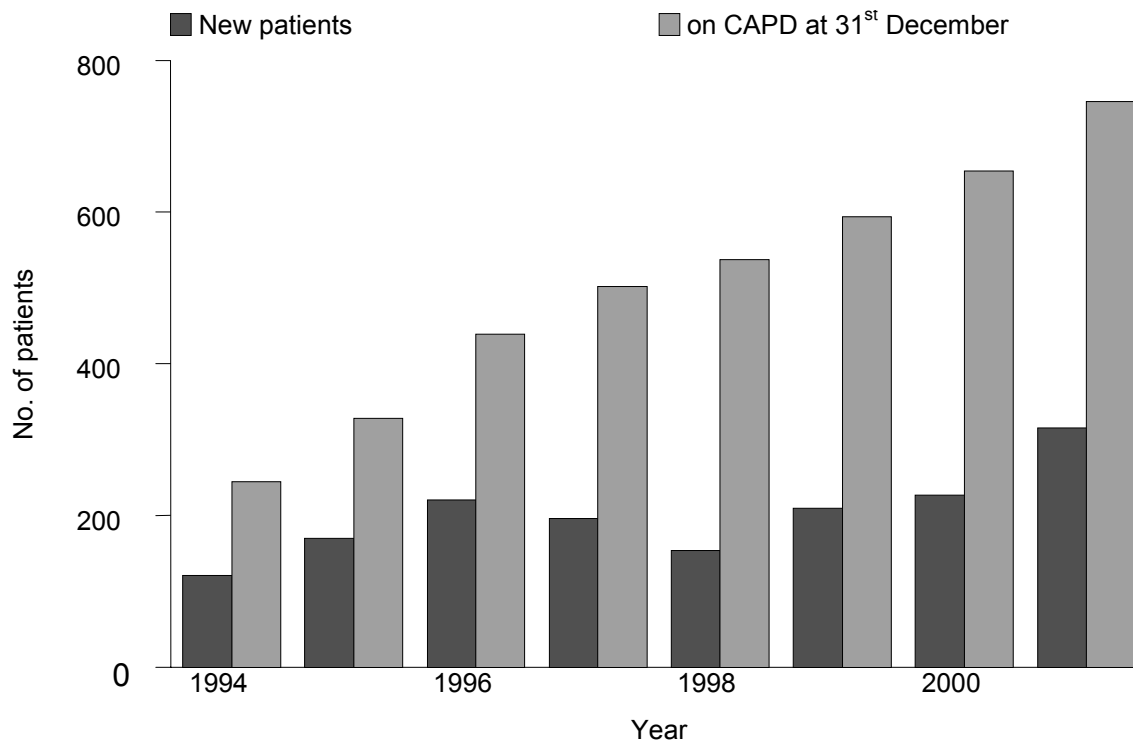
4. CHRONIC PERITONEAL DIALYSIS

4.1 STOCK AND FLOW

Table 4.01: Stock and Flow of Chronic PD Patients 1994 – 2001

| Year | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|----------------------------|------|------|------|------|------|------|------|------|
| New Dialysis patients | 121 | 170 | 220 | 196 | 154 | 209 | 227 | 315 |
| Died | 42 | 58 | 61 | 73 | 74 | 100 | 91 | 126 |
| Transferred to HD | 22 | 22 | 38 | 50 | 33 | 38 | 63 | 85 |
| Transplanted | 3 | 7 | 8 | 10 | 12 | 13 | 11 | 11 |
| Lost to follow up | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 1 |
| Dialysing at 31st December | 245 | 328 | 439 | 502 | 537 | 594 | 654 | 746 |

Figure 4.01: Stock and Flow of Chronic PD Patients 1994 – 2001

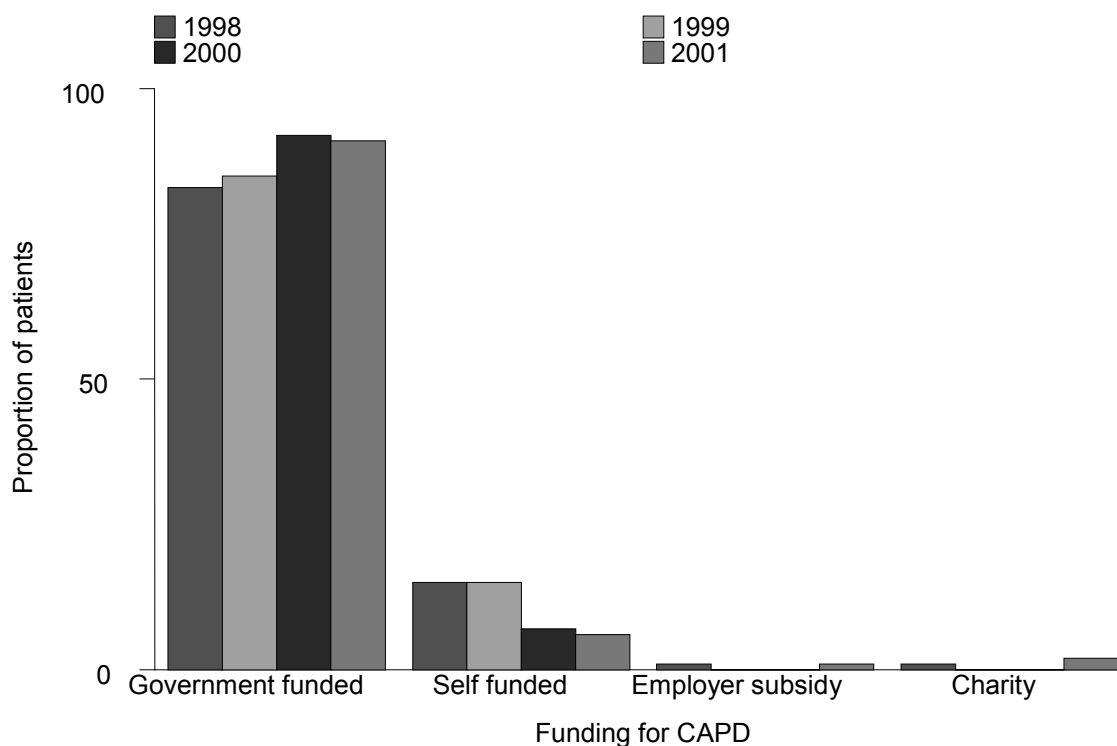


4.2 FUNDING FOR CHRONIC PERITONEAL DIALYSIS

Table 4.03: Funding for CAPD, Government Centres 1998 – 2001

| Year | 1998 | 1999 | 2000 | 2001 |
|----------------------------|------|------|------|------|
| New Dialysis patients | 154 | 209 | 227 | 315 |
| % Government funded | 83 | 85 | 92 | 91 |
| % Self funded | 15 | 15 | 7 | 6 |
| % Employer subsidised | 1 | 0 | 0 | 1 |
| % Charity | 1 | 0 | 0 | 2 |
| Dialysing at 31st December | 537 | 594 | 654 | 746 |
| % Government funded | 85 | 86 | 88 | 89 |
| % Self funded | 12 | 12 | 10 | 9 |
| % Employer subsidised | 1 | 1 | 1 | 1 |
| % Charity | 2 | 1 | 1 | 2 |

Figure 4.03: Funding for new CAPD, Government Centres 1998 – 2001



4.3 DEATH ON CAPD AND TRANSFER TO HAEMODIALYSIS

Table 4.04: Death Rate and Transfer to HD Government Centres 1994 – 2001

| Year | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|-----------------------|------|------|------|------|------|------|------|------|
| No. at risk | 245 | 287 | 384 | 471 | 520 | 566 | 624 | 700 |
| Death (No.) | 42 | 58 | 61 | 73 | 74 | 100 | 91 | 126 |
| Death rate % | 17 | 20 | 16 | 16 | 14 | 18 | 15 | 18 |
| No transferred to HD | 22 | 22 | 38 | 50 | 33 | 38 | 63 | 85 |
| Transfer to HD rate % | 9 | 8 | 10 | 11 | 6 | 7 | 10 | 12 |
| All losses | 64 | 80 | 99 | 123 | 107 | 138 | 154 | 211 |
| All losses rate % | 26 | 28 | 26 | 26 | 21 | 24 | 25 | 30 |

Figure 4.04: Death Rates on CAPD, Government Centres 1994 – 2001

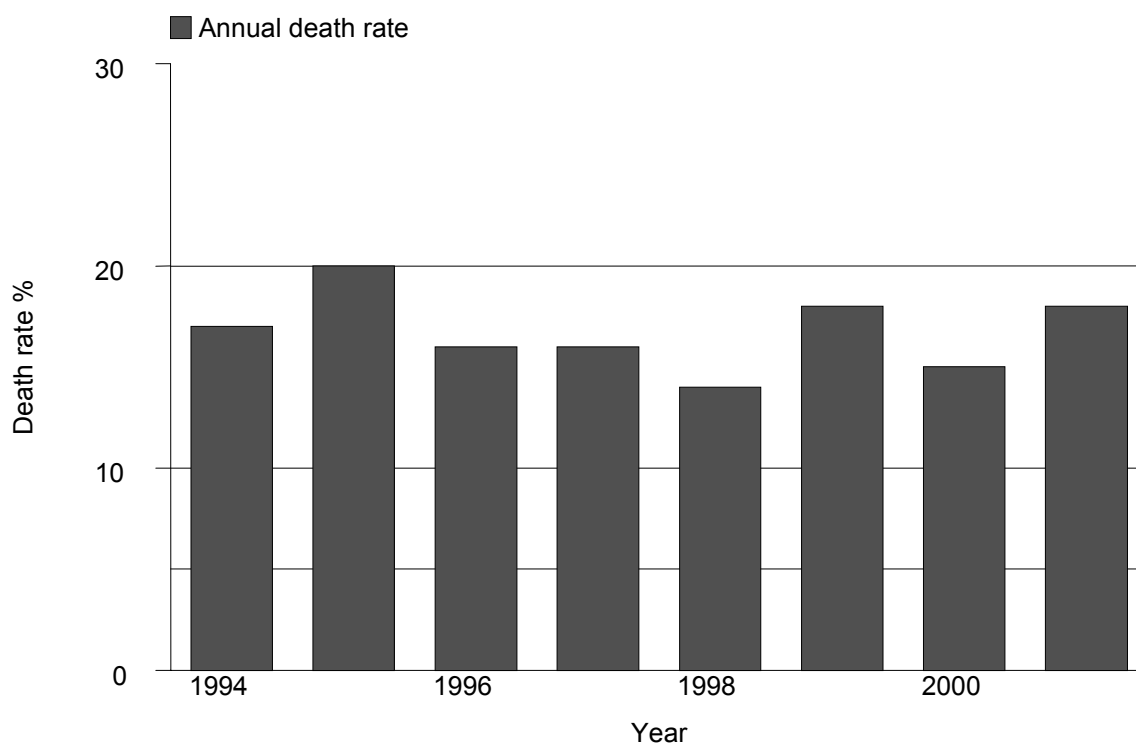


Table 4.05: Causes of Death on CAPD, Government Centres 1998 – 2001

| Year | 1998 | | 1999 | | 2000 | | 2001 | |
|------------------|------|-----|------|-----|------|-----|------|-----|
| | No | % | No | % | No | % | No | % |
| Cardiovascular | 23 | 31 | 27 | 27 | 28 | 31 | 34 | 27 |
| Died at home | 11 | 15 | 32 | 32 | 22 | 24 | 29 | 23 |
| Sepsis | 16 | 22 | 15 | 15 | 15 | 16 | 25 | 20 |
| CAPD peritonitis | 1 | 1 | 8 | 8 | 15 | 16 | 19 | 15 |
| GIT bleed | 0 | 0 | 3 | 3 | 1 | 1 | 4 | 3 |
| Cancer | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 |
| Liver disease | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Others | 12 | 16 | 11 | 11 | 10 | 11 | 8 | 6 |
| Unknown | 11 | 15 | 3 | 3 | 0 | 0 | 5 | 4 |
| Total | 74 | 100 | 100 | 100 | 91 | 100 | 126 | 100 |

Table 4.06: Causes of Transfer to CAPD 1998 – 2001

| Year | 1998 | | 1999 | | 2000 | | 2001 | |
|--------------------------------|------|-----|------|-----|------|-----|------|-----|
| | No. | % | No. | % | No. | % | No. | % |
| Peritonitis | 17 | 52 | 23 | 61 | 39 | 62 | 30 | 35 |
| Cather related infection | 0 | 0 | 2 | 5 | 1 | 2 | 1 | 1 |
| Technical problem | 3 | 9 | 0 | 0 | 3 | 5 | 0 | 0 |
| Membrane failure | 3 | 9 | 3 | 8 | 9 | 14 | 5 | 6 |
| Patient preference/cannot cope | 2 | 6 | 3 | 8 | 4 | 6 | 4 | 5 |
| Others | 0 | 0 | 3 | 8 | 3 | 5 | 4 | 5 |
| Unknown | 8 | 24 | 4 | 11 | 4 | 6 | 41 | 48 |
| Total | 33 | 100 | 38 | 100 | 63 | 100 | 85 | 100 |

4.4 GOVERNMENT CAPD CENTRES

Table 4.07: Centre Distribution of CAPD patients, 2001

| | Centre | No | Percent |
|----|---|-----|---------|
| | Number on CAPD at 31 st December | 746 | 100 |
| 1 | Berjaya NKF Dialysis Centre, Petaling Jaya | 3 | 0 |
| 2 | Ipoh Hospital | 40 | 5 |
| 3 | Kota Bharu Hospital | 10 | 1 |
| 4 | Kuala Lumpur Hospital | 169 | 23 |
| 5 | Kuala Lumpur Hospital (Paed.) | 24 | 3 |
| 6 | Kuala Terengganu Hospital | 41 | 5 |
| 7 | Kuching Hospital | 10 | 1 |
| 8 | Melaka Hospital | 1 | 0 |
| 9 | Pulau Pinang Hospital | 93 | 12 |
| 10 | Queen Elizabeth Hospital | 18 | 2 |
| 11 | Sabah Medical Centre | 1 | 0 |
| 12 | Selayang Hospital | 22 | 3 |
| 13 | Seremban Hospital | 63 | 8 |
| 14 | Sultanah Aminah Hospital | 103 | 14 |
| 15 | Tengku Ampuan Afzan Hospital, Kuantan | 8 | 1 |
| 16 | Tengku Ampuan Rahimah Hospital, Klang | 29 | 4 |
| 17 | Universiti Kebangsaan Malaysia Hospital | 5 | 1 |
| 18 | University Malaya Medical Centre | 106 | 14 |

4.5 CAPD PATIENTS' CHARACTERISTICS

Table 4.08: Percentage Age Distribution of CAPD patients 1998 – 2001

| Year | 1998 | 1999 | 2000 | 2001 |
|----------------------------|------|------|------|------|
| New Dialysis patients | 154 | 209 | 227 | 315 |
| 1-14 years | 13 | 10 | 9 | 8 |
| 15-24 years | 9 | 7 | 11 | 9 |
| 25-34 years | 14 | 7 | 8 | 10 |
| 35-44 years | 13 | 12 | 16 | 14 |
| 45-54 years | 18 | 22 | 25 | 19 |
| 55-64 years | 25 | 25 | 19 | 27 |
| ≥65 years | 8 | 16 | 11 | 12 |
| Dialysing at 31st December | 537 | 594 | 654 | 746 |
| 1-14 years | 11 | 12 | 11 | 11 |
| 15-24 years | 5 | 6 | 7 | 8 |
| 25-34 years | 15 | 14 | 14 | 14 |
| 35-44 years | 17 | 15 | 16 | 16 |
| 45-54 years | 25 | 24 | 24 | 21 |
| 55-64 years | 19 | 20 | 19 | 21 |
| ≥65 years | 9 | 8 | 8 | 8 |

Table 4.09: CAPD Patient Characteristics 1998- 2001

| Year | 1998 | 1999 | 2000 | 2001 |
|-----------------------|-------|-------|-------|-------|
| New Dialysis patients | 154 | 209 | 227 | 315 |
| Mean age ± sd | 42±19 | 47±19 | 43±18 | 46±18 |
| % male | 49 | 51 | 49 | 47 |
| % Diabetic | 36 | 44 | 37 | 41 |
| % HBsAg+ | 0 | 1 | 4 | 4 |
| % Anti-HCV+ | 3 | 4 | 4 | 3 |

4.6 SURVIVAL ANALYSIS

Table 4.10: CAPD Patient Survival related to Year of Entry, Government Centres 1996–2001

| Year | 1996 | | | 1997 | | | 1998 | | |
|-------------------|------------|----|-----|------------|----|-----|------------|----|-----|
| Interval (months) | % survival | SE | No | % survival | SE | No | % survival | SE | No |
| 6 | 94 | 2 | 200 | 96 | 1 | 185 | 94 | 2 | 142 |
| 12 | 88 | 2 | 177 | 92 | 2 | 168 | 86 | 3 | 126 |
| 24 | 77 | 3 | 139 | 79 | 3 | 139 | 72 | 4 | 94 |
| 36 | 66 | 3 | 105 | 65 | 4 | 100 | 62 | 4 | 64 |
| 48 | 52 | 4 | 67 | 55 | 4 | 74 | | | |
| 60 | 48 | 4 | 53 | | | | | | |

| Year | 1999 | | | 2000 | | | 2001 | | |
|-------------------|------------|----|-----|------------|----|-----|------------|----|-----|
| Interval (months) | % survival | SE | No | % survival | SE | No | % survival | SE | No |
| 6 | 94 | 2 | 188 | 94 | 2 | 206 | 92 | 2 | 147 |
| 12 | 90 | 2 | 173 | 88 | 2 | 183 | | | |
| 24 | 73 | 3 | 115 | | | | | | |

No. = number at risk

SE = standard error

Figure 4.10: CAPD Patient Survival related to Year of Entry, Government Centres 1997 – 2001

Kaplan-Meier survival estimates, by year

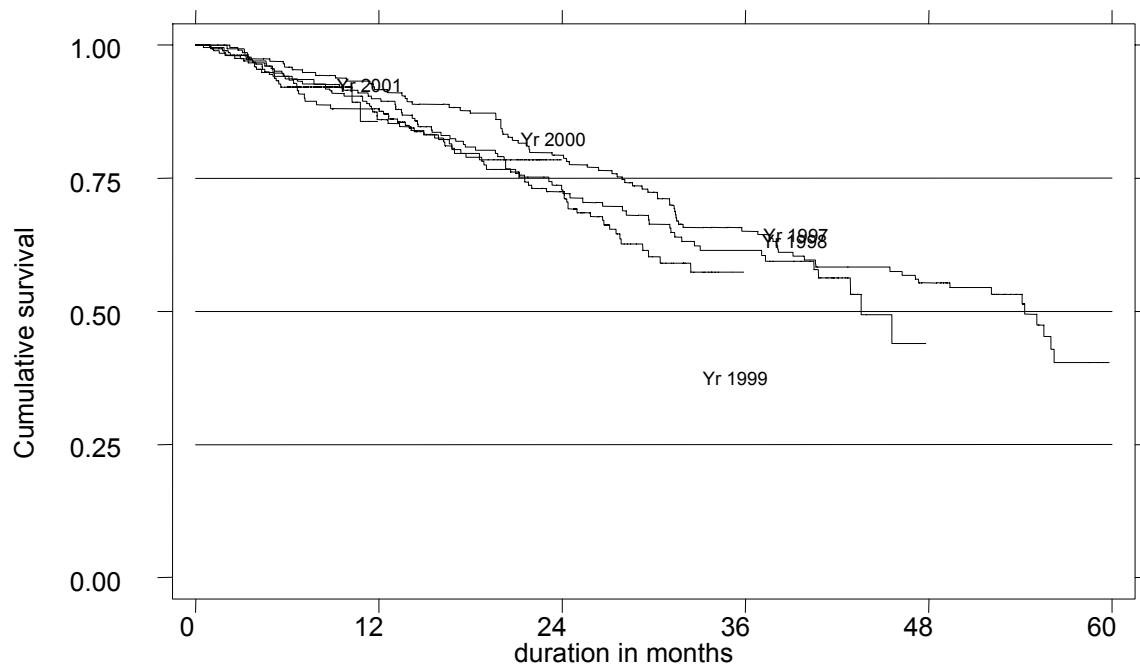


Table 4.11: CAPD Technique Survival related to Year of Entry, Government Centres 1996 – 2001

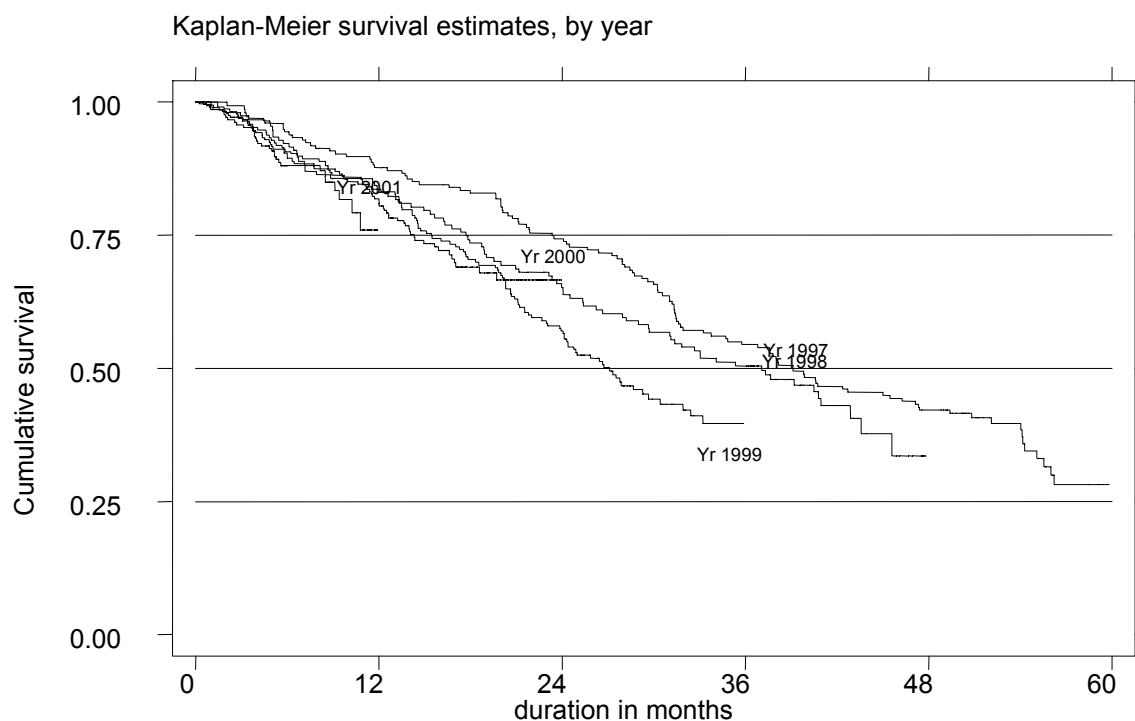
| Year | 1996 | | | 1997 | | | 1998 | | |
|-------------------|------------|----|-----|------------|----|-----|------------|----|-----|
| Interval (months) | % survival | SE | No | % survival | SE | No | % survival | SE | No |
| 6 | 91 | 2 | 199 | 94 | 2 | 185 | 92 | 2 | 142 |
| 12 | 82 | 3 | 177 | 88 | 2 | 168 | 83 | 3 | 126 |
| 24 | 67 | 3 | 139 | 74 | 3 | 139 | 65 | 4 | 94 |
| 36 | 52 | 3 | 105 | 54 | 4 | 100 | 50 | 4 | 68 |
| 48 | 34 | 3 | 67 | 42 | 4 | 74 | | | |
| 60 | 28 | 3 | 53 | | | | | | |

| Year | 1999 | | | 2000 | | | 2001 | | |
|-------------------|------------|----|-----|------------|----|-----|------------|----|-----|
| Interval (months) | % survival | SE | No | % survival | SE | No | % survival | SE | No |
| 6 | 89 | 2 | 188 | 91 | 2 | 206 | 88 | 2 | 146 |
| 12 | 83 | 3 | 173 | 81 | 3 | 184 | | | |
| 24 | 57 | 3 | 115 | | | | | | |

No. = number at risk

SE = standard error

Figure 4.11: CAPD Technique Survival by Year of Entry Government Centres 1997 – 2001



4.7 WORK RELATED REHABILITATION AND QUALITY OF LIFE ON CAPD

**Table 4.12: Work Related Rehabilitation on CAPD, Government Centres
1998 – 2001**

| REHABILITATION STATUS | 1998 | | 1999 | | 2000 | | 2001 | |
|--|------|-----|------|-----|------|-----|------|-----|
| | No. | % | No. | % | No. | % | No. | % |
| Full time work for pay | 83 | 20 | 96 | 19 | 92 | 17 | 99 | 16 |
| Part time work for pay | 23 | 6 | 45 | 9 | 27 | 5 | 35 | 6 |
| Able to work but unable to get a job | 13 | 3 | 14 | 3 | 25 | 5 | 22 | 4 |
| Able to work but not yet due to dialysis schedule | 4 | 1 | 3 | 1 | 7 | 1 | 9 | 1 |
| Able but disinclined to work | 7 | 2 | 11 | 2 | 10 | 2 | 11 | 2 |
| Home maker | 121 | 29 | 143 | 28 | 166 | 31 | 213 | 35 |
| Full time student | 45 | 11 | 67 | 13 | 81 | 15 | 89 | 15 |
| Age<15 years | 11 | 3 | 13 | 3 | 8 | 2 | 11 | 2 |
| Retired | 37 | 9 | 38 | 7 | 45 | 8 | 47 | 8 |
| Age>65 years | 38 | 9 | 39 | 8 | 42 | 8 | 49 | 8 |
| Unable to work due to poor health | 36 | 9 | 43 | 8 | 29 | 5 | 26 | 4 |
| Total | 418 | 100 | 512 | 100 | 532 | 100 | 611 | 100 |

Table 4.13: Quality of Life on CAPD, Government Centres 1998 – 2001

| QOL Index Summated Score | 1998 | | 1999 | | 2000 | | 2001 | |
|-----------------------------|------|-----|------|-----|------|-----|------|-----|
| | No. | % | No. | % | No. | % | No. | % |
| 0 (Worst QOL) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 2 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 3 | 8 | 2 | 3 | 1 | 1 | 0 | 7 | 1 |
| 4 | 11 | 3 | 16 | 3 | 13 | 3 | 11 | 2 |
| 5 | 26 | 6 | 19 | 4 | 17 | 3 | 19 | 3 |
| 6 | 14 | 3 | 25 | 5 | 22 | 4 | 21 | 3 |
| 7 | 32 | 8 | 26 | 5 | 37 | 7 | 37 | 6 |
| 8 | 32 | 8 | 37 | 7 | 29 | 6 | 35 | 6 |
| 9 | 45 | 11 | 46 | 9 | 30 | 6 | 62 | 10 |
| 10 (Best QOL) | 236 | 58 | 338 | 66 | 366 | 71 | 425 | 69 |
| Total | 406 | 100 | 511 | 100 | 518 | 100 | 617 | 100 |

4.8 CAPD PRACTICES

Table 4.14: Chronic Peritoneal Dialysis Regimes 1998 – 2001

| PD regime | 1998 | | 1999 | | 2000 | | 2001 | |
|---------------|------|-----|------|-----|------|-----|------|-----|
| | No | % | No | % | No | % | No | % |
| Standard CAPD | 504 | 95 | 580 | 96 | 637 | 98 | 745 | 99 |
| DAPD | 22 | 4 | 19 | 3 | 12 | 2 | 7 | 1 |
| Automated PD | 6 | 1 | 4 | 1 | 4 | 1 | 2 | 0 |
| Total | 532 | 100 | 603 | 100 | 653 | 100 | 754 | 100 |

Table 4.15: CAPD Connectology 1998 – 2001

| CAPD connectology | 1998 | | 1999 | | 2000 | | 2001 | |
|-------------------|------|-----|------|-----|------|-----|------|-----|
| | No | % | No | % | No | % | No | % |
| UVXD | 11 | 2 | 4 | 1 | 2 | 0 | 0 | 0 |
| Baxter disconnect | 500 | 95 | 343 | 58 | 233 | 39 | 435 | 57 |
| Braun disconnect | 18 | 3 | 248 | 42 | 370 | 61 | 323 | 43 |
| Total | 529 | 100 | 595 | 100 | 605 | 100 | 758 | 100 |

Table 4.16: CAPD Number of Exchanges per day 1998 – 2001

| No of Exchanges/day | 1998 | | 1999 | | 2000 | | 2001 | |
|---------------------|------|-----|------|-----|------|-----|------|-----|
| | No | % | No | % | No | % | No | % |
| 2 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| 3 | 4 | 1 | 4 | 1 | 1 | 0 | 5 | 1 |
| 4 | 508 | 96 | 579 | 97 | 624 | 96 | 726 | 95 |
| 5 | 16 | 3 | 13 | 2 | 23 | 4 | 31 | 4 |
| 100 | 531 | 100 | 597 | 100 | 650 | 100 | 763 | 100 |

Table 4.17: CAPD Volume per Exchange 1998 – 2001

| Volume per Exchange (L) | 1998 | | 1999 | | 2000 | | 2001 | |
|-------------------------|------|-----|------|-----|------|-----|------|-----|
| | No | % | No | % | No | % | No | % |
| 1 | 25 | 5 | 19 | 3 | 25 | 4 | 32 | 4 |
| 2 | 496 | 95 | 557 | 96 | 595 | 95 | 703 | 94 |
| 3 | 0 | 0 | 2 | 0 | 7 | 1 | 9 | 1 |
| Total | 521 | 100 | 578 | 100 | 627 | 100 | 744 | 100 |

4.9. DYSLIPIDAEMIA IN CAPD PATIENTS, GOVERNMENT CENTRES

Table 4.24: Distribution of serum Cholesterol Concentrations (mmol/l), CAPD patients, Government Centres 1998 – 2001

| year | No of subjects | No of observations | median | LQ | UQ | % patients < 5.3 mmol/l |
|------|----------------|--------------------|--------|-----|-----|-------------------------|
| 1998 | 348 | 519 | 5.9 | 5 | 6.8 | 39 |
| 1999 | 434 | 619 | 5.5 | 4.8 | 6.5 | 48 |
| 2000 | 526 | 833 | 5.8 | 4.9 | 6.8 | 40 |
| 2001 | 577 | 896 | 5.7 | 4.8 | 6.6 | 44 |

Figure 4.24: Cumulative distribution of serum cholesterol concentration by year

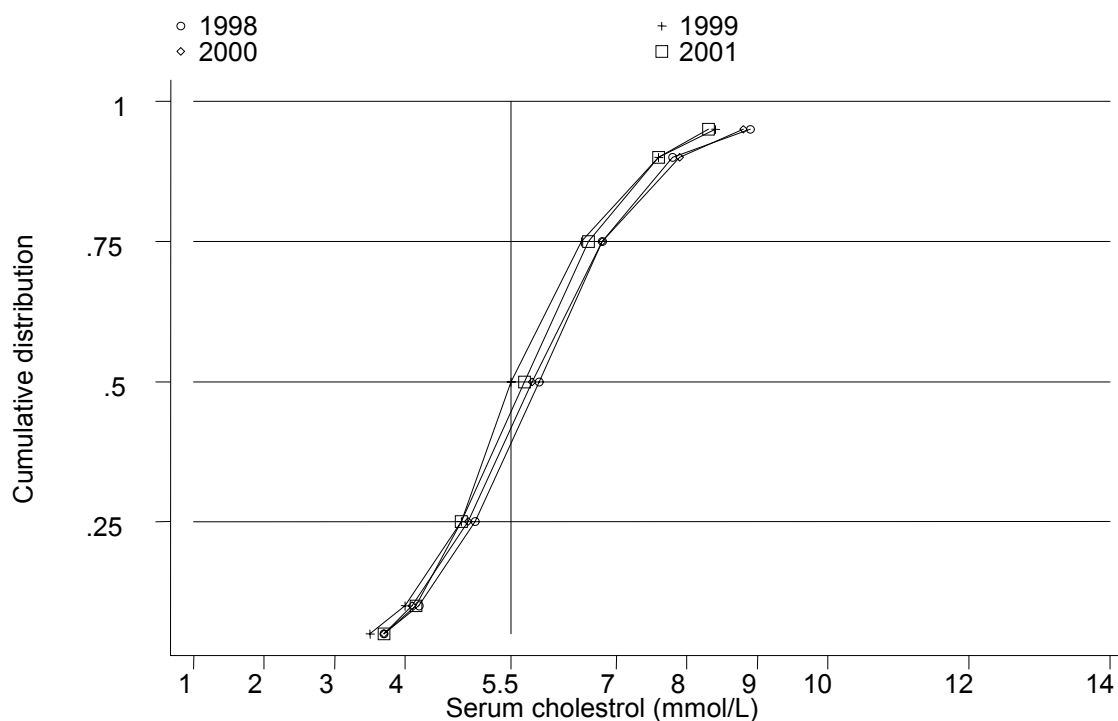


Table 4.25: Distribution of serum Triglyceride (mmol/l), CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 3.5 mmol/l |
|------|----------------|--------------------|--------|-----|-----|-------------------------|
| 1998 | 344 | 511 | 1.8 | 1.2 | 3 | 81 |
| 1999 | 421 | 602 | 1.9 | 1.3 | 2.9 | 82 |
| 2000 | 520 | 819 | 2.1 | 1.4 | 3.1 | 79 |
| 2001 | 571 | 890 | 2 | 1.4 | 3.1 | 80 |

Figure 4.25: Cumulative distribution of serum triglyceride concentration by year

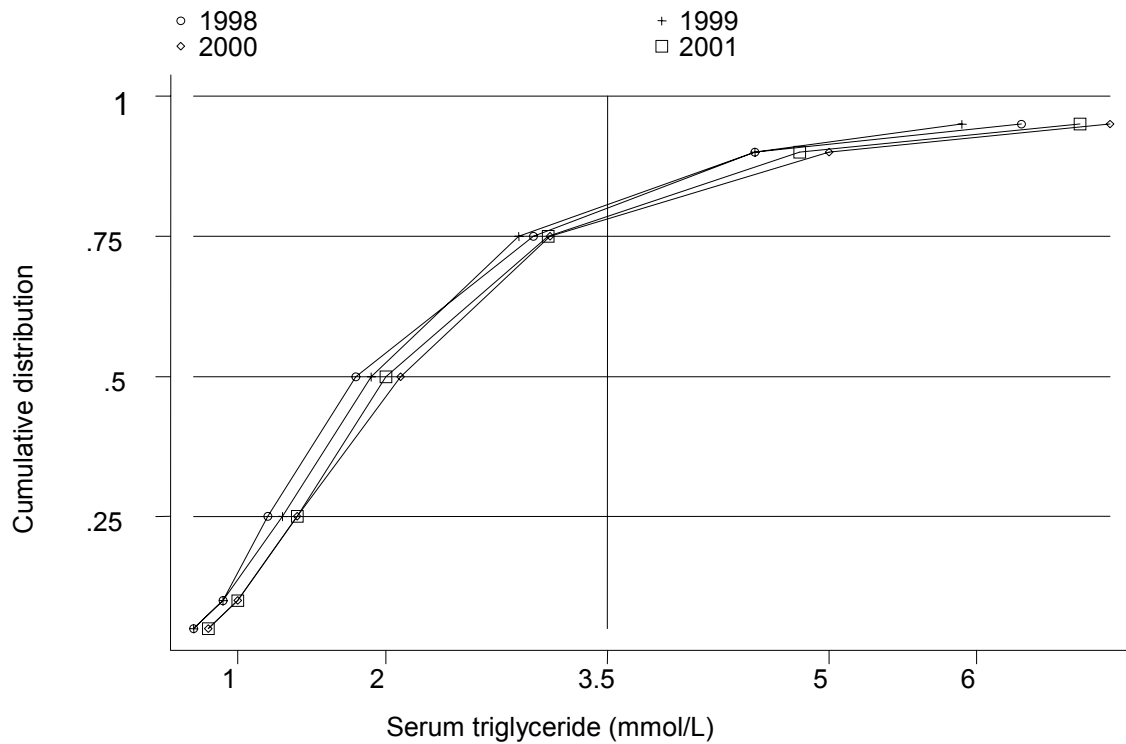


Table 4.26: Distribution of serum LDL (mmol/l), CAPD patient, Government Centres 1998 – 2001

| year | No of subjects | No of observations | median | LQ | UQ | % patients <5 mmol/l |
|------|----------------|--------------------|--------|-----|-----|----------------------|
| 1998 | 146 | 187 | 3.9 | 3.1 | 4.6 | 84 |
| 1999 | 198 | 263 | 3.4 | 2.8 | 4.4 | 82 |
| 2000 | 271 | 392 | 3.6 | 2.7 | 4.3 | 88 |
| 2001 | 407 | 587 | 3.3 | 2.6 | 4.2 | 89 |

Figure 4.26: Cumulative distribution of serum LDL by year

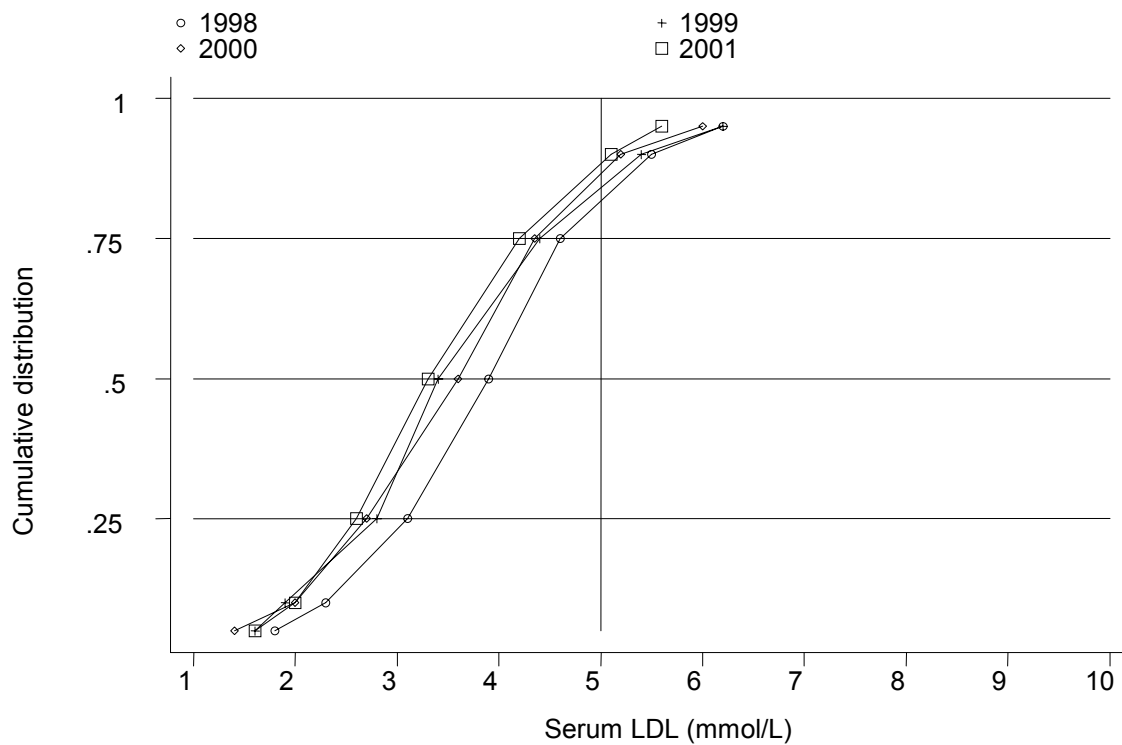
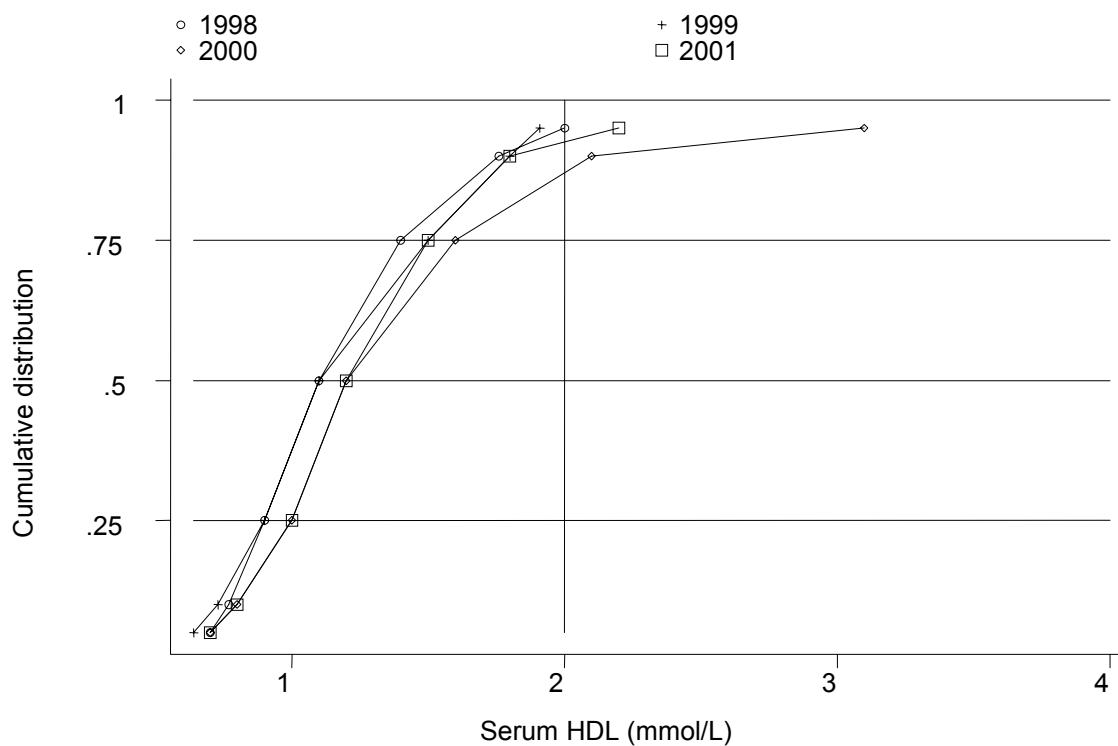


Table 4.27: Distribution of serum HDL (mmol/l), CAPD patient, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 2mmol/l |
|------|----------------|--------------------|--------|----|-----|----------------------|
| 1998 | 152 | 198 | 1.1 | .9 | 1.4 | 93 |
| 1999 | 210 | 279 | 1.1 | .9 | 1.5 | 96 |
| 2000 | 283 | 415 | 1.2 | 1 | 1.6 | 88 |
| 2001 | 417 | 610 | 1.2 | 1 | 1.5 | 94 |

Figure 4.27: Cumulative distribution of serum HDL by year



4.10 MANAGEMENT OF RENAL BONE DISEASE, GOVERNMENT CENTRES

Table 4.28: Treatment for Renal Bone Disease, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | % on CaCO ₃ | % on Al(OH) ₃ | % on Vitamin D |
|------|----------------|------------------------|--------------------------|----------------|
| 1998 | 541 | 79 | 9 | 20 |
| 1999 | 610 | 74 | 6 | 12 |
| 2000 | 662 | 79 | 2 | 15 |
| 2001 | 772 | 75 | 1 | 10 |

Table 4.29: Distribution of serum Phosphate concentration (mmol/l), CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 1.6 mmol/l |
|------|----------------|--------------------|--------|-----|-----|-------------------------|
| 1998 | 537 | 1680 | 1.6 | 1.3 | 1.9 | 52 |
| 1999 | 583 | 1783 | 1.6 | 1.3 | 2 | 51 |
| 2000 | 633 | 1879 | 1.5 | 1.2 | 1.9 | 56 |
| 2001 | 722 | 2179 | 1.5 | 1.1 | 1.8 | 60 |

Figure 4.29: Cumulative distribution of serum Phosphate by year

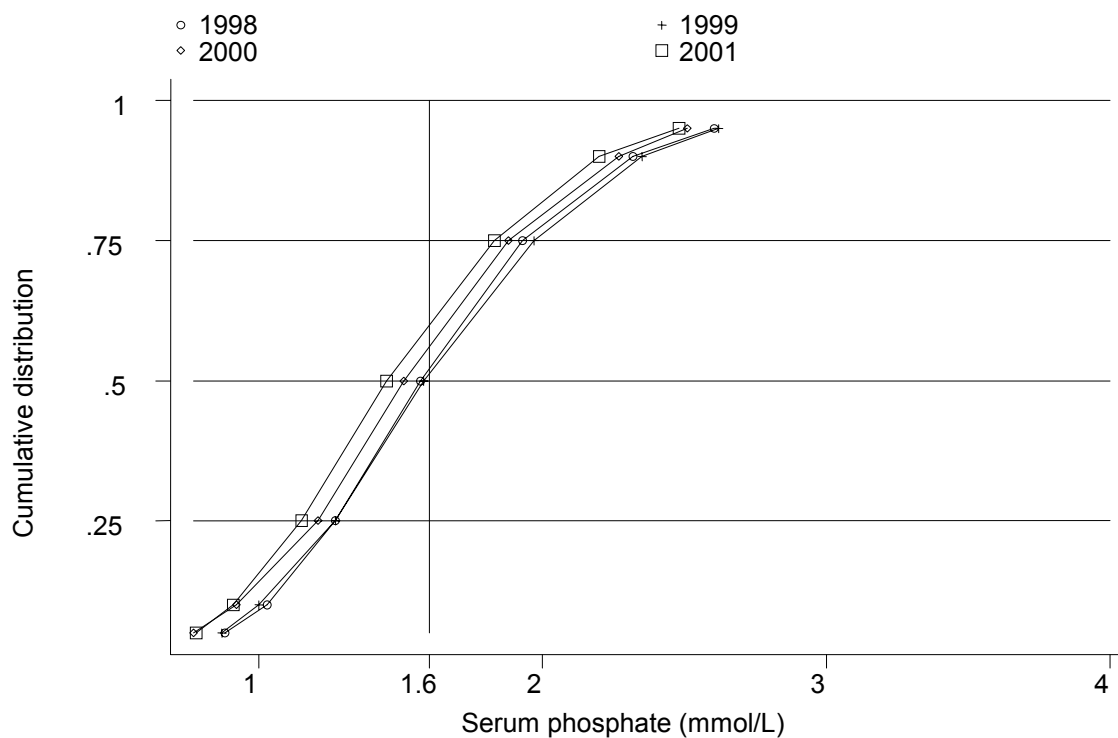


Table 4.30: Distribution of serum Calcium concentration (mmol/l), CAPD patients, Government Centres 1998 – 2001

| year | No of subjects | No of observations | median | LQ | UQ | % patients ≥ 2.2 & ≤ 2.6 mmol/l |
|------|----------------|--------------------|--------|-----|-----|---|
| 1998 | 539 | 1707 | 2.3 | 2.2 | 2.5 | 52 |
| 1999 | 594 | 1830 | 2.4 | 2.2 | 2.5 | 55 |
| 2000 | 642 | 1954 | 2.4 | 2.2 | 2.5 | 58 |
| 2001 | 739 | 2255 | 2.4 | 2.2 | 2.5 | 59 |

Figure 4.30: Cumulative distribution of serum Calcium concentration by year

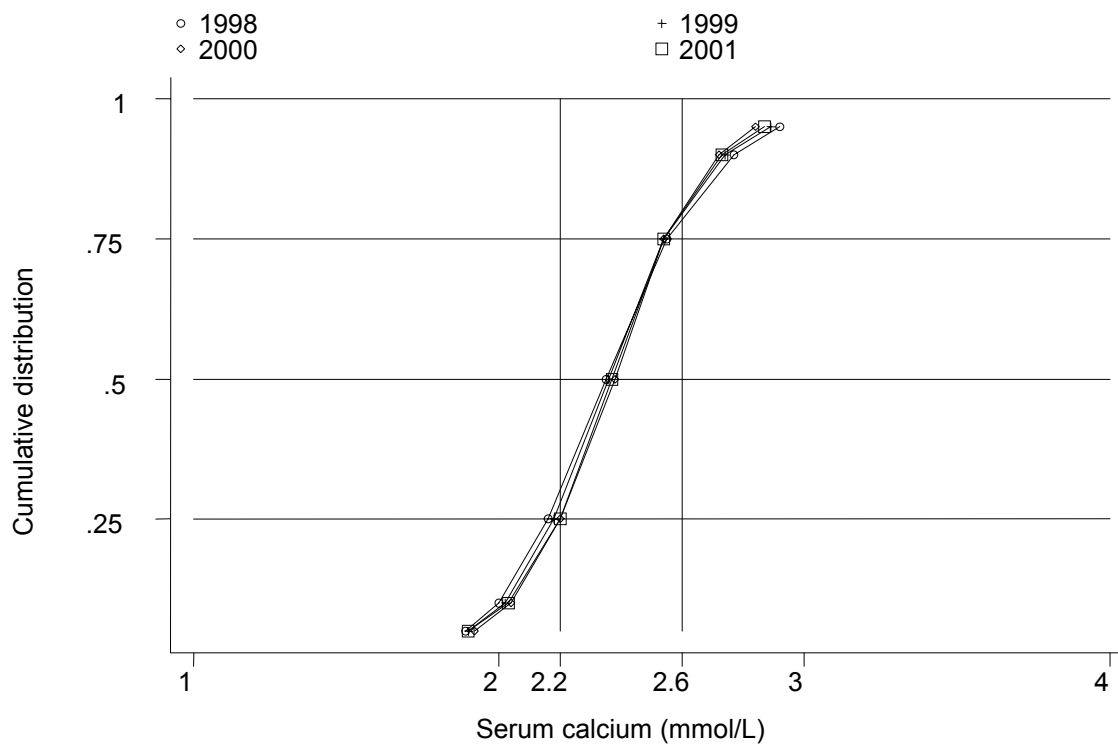
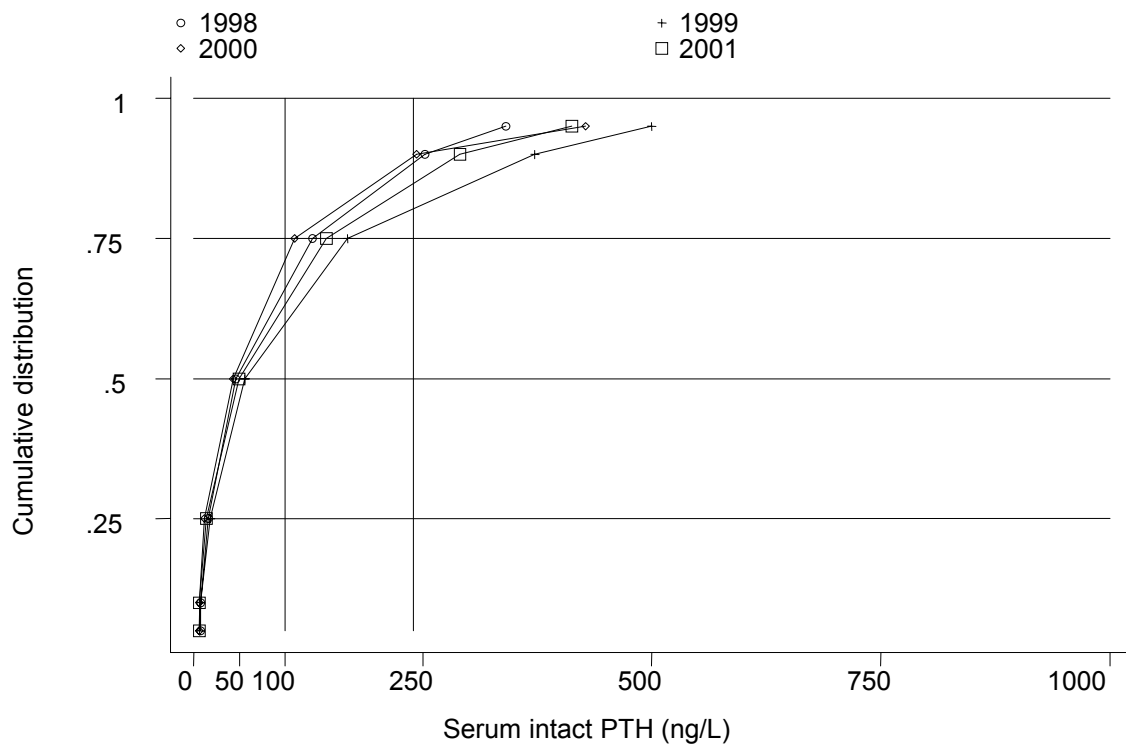


Table 4.31: Distribution of serum intact PTH (ng/L) concentration, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients ≥ 100 & ≤ 250 ng/l |
|------|----------------|--------------------|--------|------|-----|---|
| 1998 | 280 | 346 | 46 | 16 | 130 | 19 |
| 1999 | 365 | 482 | 56 | 18 | 168 | 17 |
| 2000 | 406 | 555 | 43 | 11.8 | 110 | 18 |
| 2001 | 527 | 736 | 49.5 | 14 | 145 | 20 |

Figure 4.31: Cumulative Distribution of serum iPTH by year



4.11 MANAGEMENT OF BLOOD PRESSURE, GOVERNMENT CENTRES

**Table 4.32: Treatment for hypertension, CAPD patients, Government Centres
1998 – 2001**

| year | No. | % on anti-hypertensives | % on 1 anti-hypertensives | % on 2 anti-hypertensives | % on 3 anti-hypertensives |
|------|-----|-------------------------|---------------------------|---------------------------|---------------------------|
| 1998 | 541 | 88 | 34 | 31 | 23 |
| 1999 | 610 | 82 | 30 | 33 | 19 |
| 2000 | 662 | 78 | 31 | 27 | 20 |
| 2001 | 772 | 77 | 31 | 28 | 18 |

Table 4.33: Distribution of Systolic BP without anti-hypertensives, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 160 mmHg |
|------|----------------|--------------------|--------|-----|-----|-----------------------|
| 1998 | 63 | 491 | 120 | 110 | 145 | 86 |
| 1999 | 98 | 699 | 120 | 110 | 142 | 87 |
| 2000 | 141 | 1114 | 120 | 110 | 138 | 91 |
| 2001 | 162 | 1316 | 127 | 110 | 140 | 92 |

Figure 4.33: Cumulative distribution of Systolic BP without anti-hypertensives by year

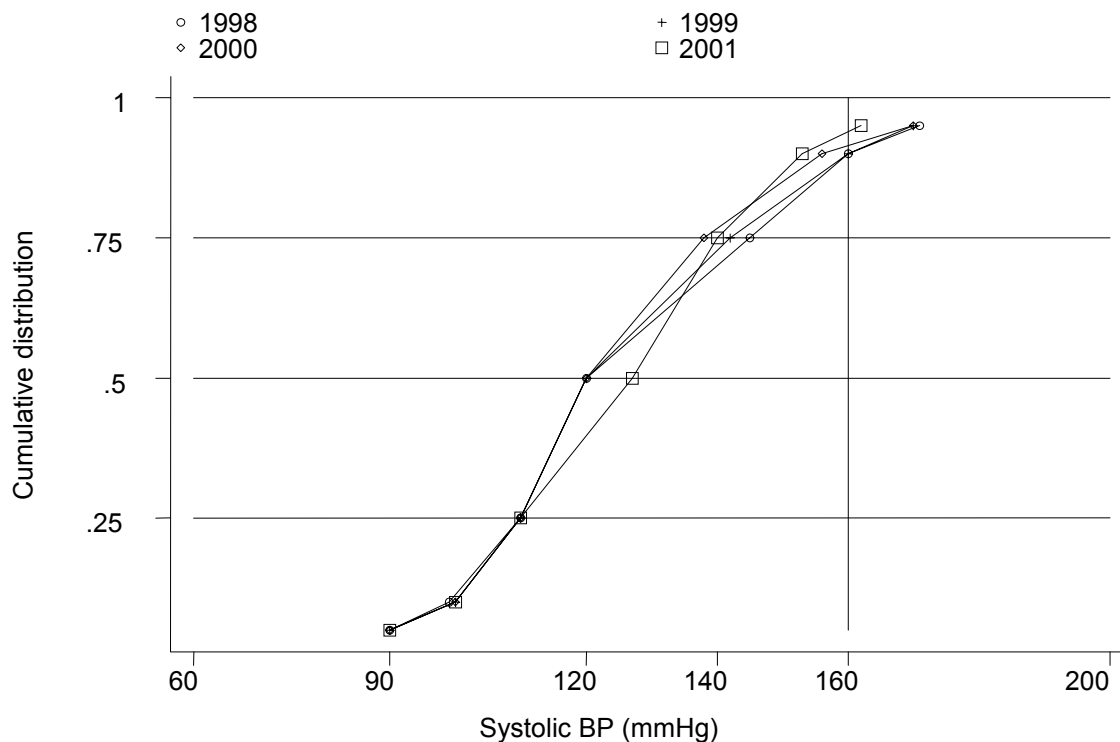


Table 4.34: Distribution of Diastolic BP without anti-hypertensives, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 90 mmHg |
|------|----------------|--------------------|--------|----|------|----------------------|
| 1998 | 63 | 492 | 80 | 70 | 89 | 76 |
| 1999 | 98 | 700 | 76.5 | 67 | 87.5 | 76 |
| 2000 | 141 | 1116 | 80 | 70 | 88 | 76 |
| 2001 | 162 | 1315 | 80 | 70 | 86 | 78 |

Figure 4.34: Cumulative distribution of Diastolic BP without anti-hypertensives by year

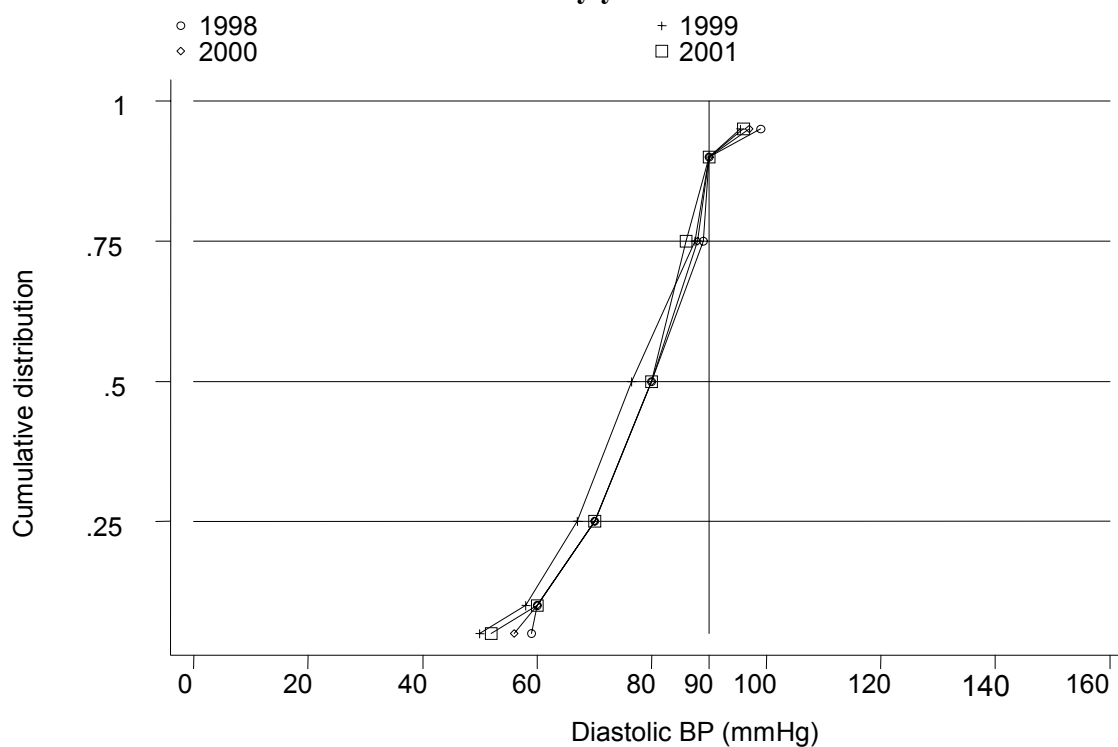


Table 4.35: Distribution of systolic BP on anti-hypertensives CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 160 mmHg |
|------|----------------|--------------------|--------|-----|-----|-----------------------|
| 1998 | 456 | 3900 | 140 | 124 | 160 | 72 |
| 1999 | 478 | 3833 | 140 | 130 | 160 | 72 |
| 2000 | 497 | 4188 | 140 | 123 | 158 | 76 |
| 2001 | 569 | 4647 | 140 | 124 | 159 | 75 |

Figure 4.35: Cumulative distribution of systolic BP on anti-hypertensives by year

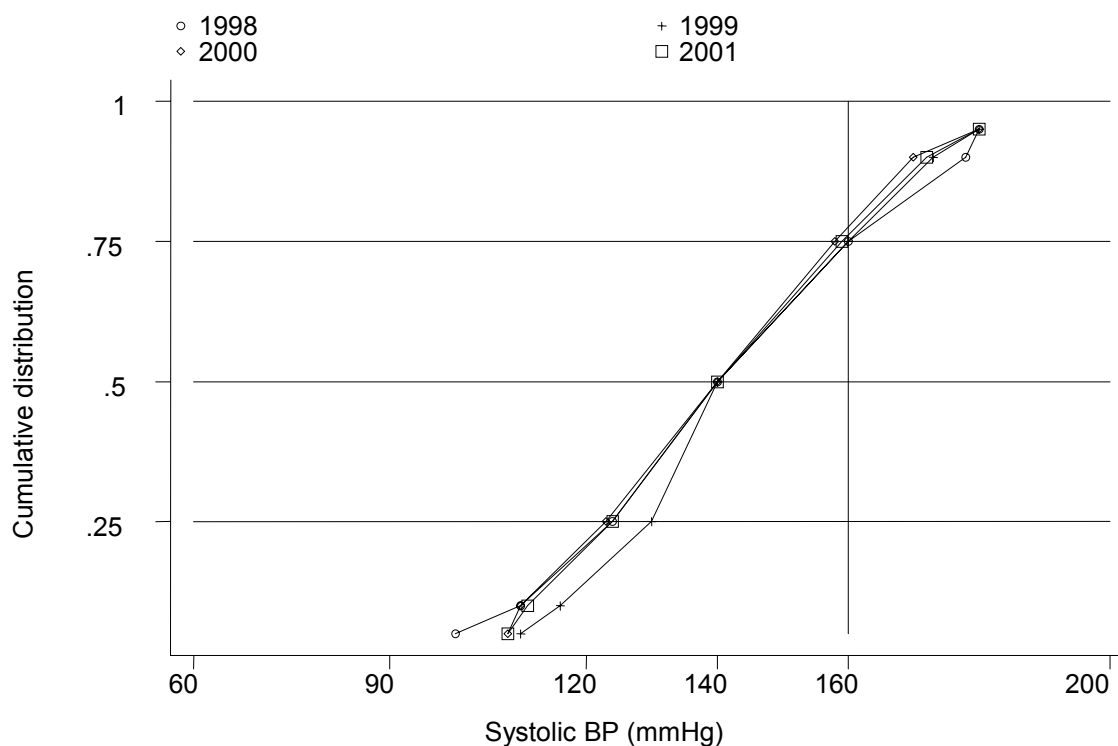
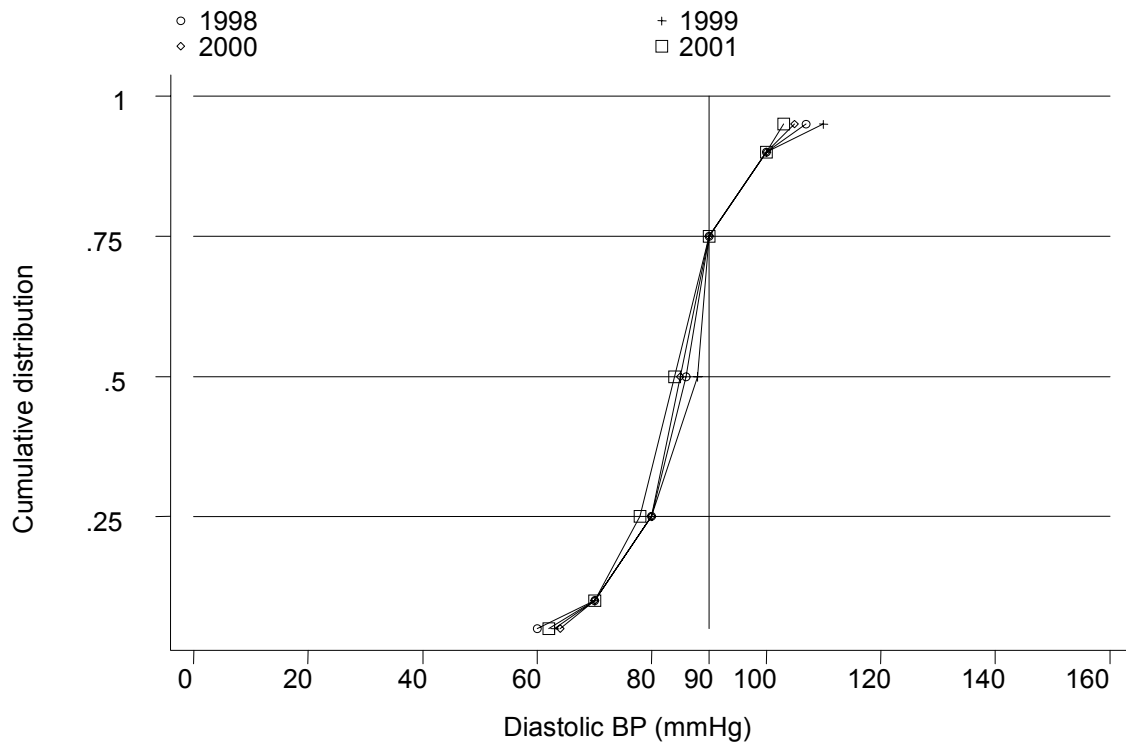


Table 4.36: Distribution of diastolic BP on anti-hypertensives, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients < 90 mmHg |
|------|----------------|--------------------|--------|----|----|----------------------|
| 1998 | 456 | 3899 | 86 | 80 | 90 | 53 |
| 1999 | 478 | 3838 | 88 | 80 | 90 | 51 |
| 2000 | 497 | 4191 | 85 | 80 | 90 | 56 |
| 2001 | 569 | 4671 | 84 | 78 | 90 | 58 |

Figure 4.36: Cumulative distribution of diastolic BP on anti-hypertensives by year



4.12 TREATMENT OF ANAEMIA, GOVERNMENT CAPD CENTRES

**Table 4.37: Treatment for Anaemia, CAPD patients, Government Centres
1998 – 2001**

| Year | No | % on rHuEpo | % received blood transfusion | % received oral iron | % received parenteral iron |
|------|-----|-------------|------------------------------|----------------------|----------------------------|
| 1998 | 541 | 44 | 16 | 96 | 3 |
| 1999 | 610 | 44 | 14 | 94 | 0 |
| 2000 | 662 | 46 | 11 | 92 | 4 |
| 2001 | 772 | 45 | 11 | 91 | 2 |

**Table 4.38: Distribution of rHuEpo dose per week, CAPD patients,
Government Centres 1998 – 2001**

| Year | 1998 | 1999 | 2000 | 2001 |
|---------------------|------|------|------|------|
| No. of patients | 225 | 259 | 287 | 331 |
| % on 2000 u/week | 25 | 35 | 31 | 33 |
| % on 2-4000 u/week | 56 | 50 | 53 | 50 |
| % on 4-6000 u/week | 6 | 3 | 5 | 7 |
| % on 6-8000 u/week | 12 | 9 | 9 | 7 |
| % on 8-12000 u/week | 1 | 2 | 3 | 2 |
| % on >12000 u/week | 0 | 0 | 0 | 0 |

Table 4.39: Distribution of serum Iron concentration without rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients > 10 umol/l |
|------|----------------|--------------------|--------|----|----|------------------------|
| 1998 | 190 | 446 | 15 | 11 | 24 | 76 |
| 1999 | 202 | 470 | 15 | 11 | 26 | 78 |
| 2000 | 255 | 549 | 15.8 | 10 | 23 | 75 |
| 2001 | 311 | 649 | 17 | 11 | 33 | 80 |

Figure 4.39: Cumulative distribution of serum Iron without rHuEpo by year

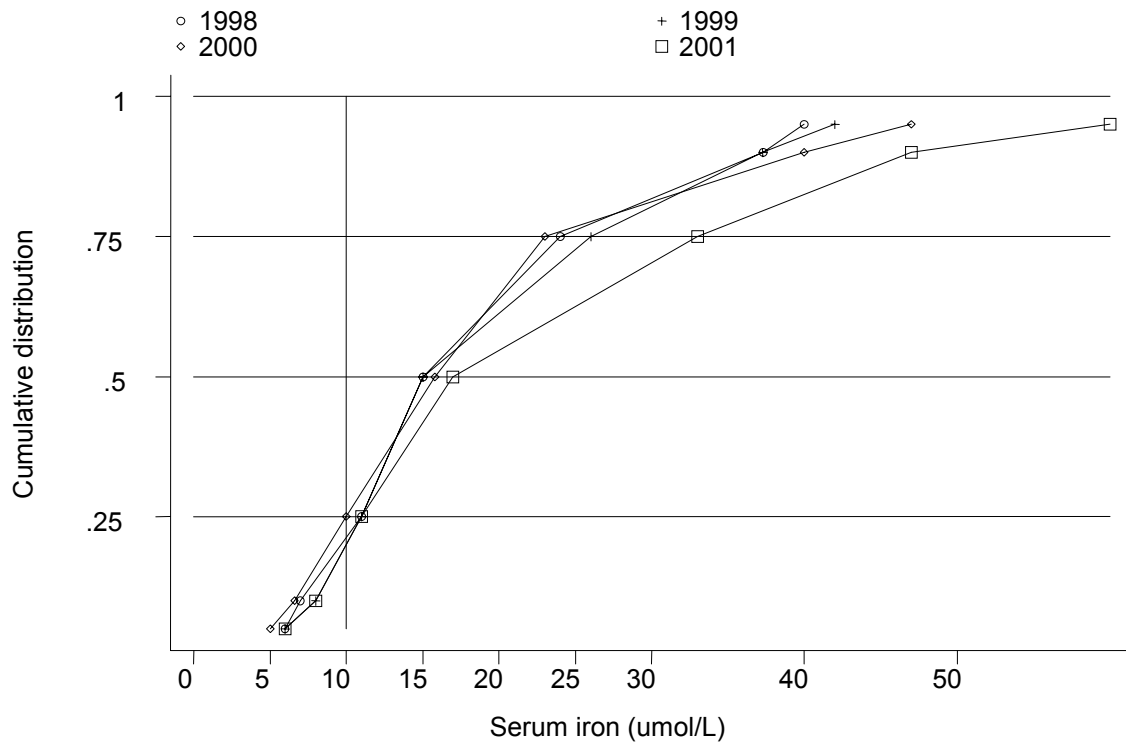


Table 4.40: Distribution of serum Iron concentration on rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients > 10 umol/l |
|------|----------------|--------------------|--------|----|------|------------------------|
| 1998 | 113 | 323 | 16 | 11 | 30.3 | 79 |
| 1999 | 143 | 392 | 18 | 11 | 28 | 81 |
| 2000 | 244 | 557 | 15 | 10 | 25 | 73 |
| 2001 | 301 | 712 | 17 | 11 | 32 | 77 |

Figure 4.40: Cumulative distribution of serum Iron concentration on rHuEpo by year.

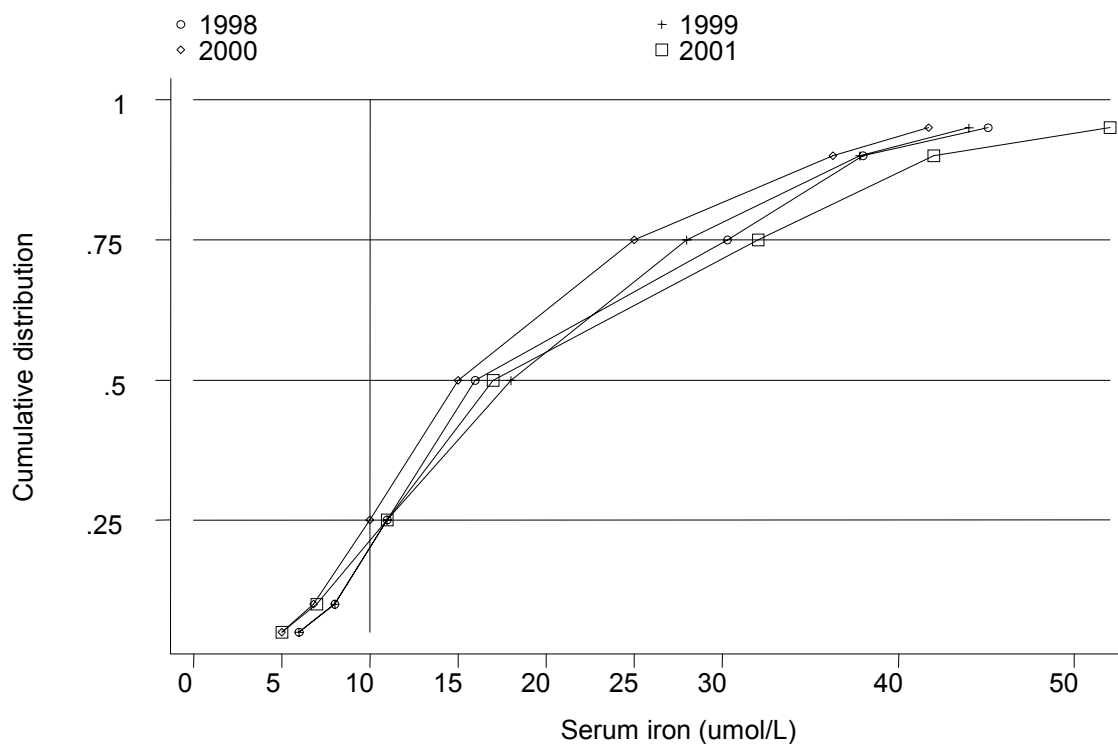


Table 4.41: Distribution of serum Transferrin Saturation without rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients > 20% |
|------|----------------|--------------------|--------|------|------|------------------|
| 1998 | 158 | 632 | 35.6 | 22.9 | 49.1 | 78 |
| 1999 | 134 | 536 | 34.2 | 23.3 | 45.1 | 85 |
| 2000 | 234 | 936 | 35.3 | 22.4 | 50 | 80 |
| 2001 | 259 | 1036 | 39 | 26.8 | 60.4 | 88 |

Figure 4.41: Cumulative distribution of serum Transferrin Saturation without rHuEpo by year

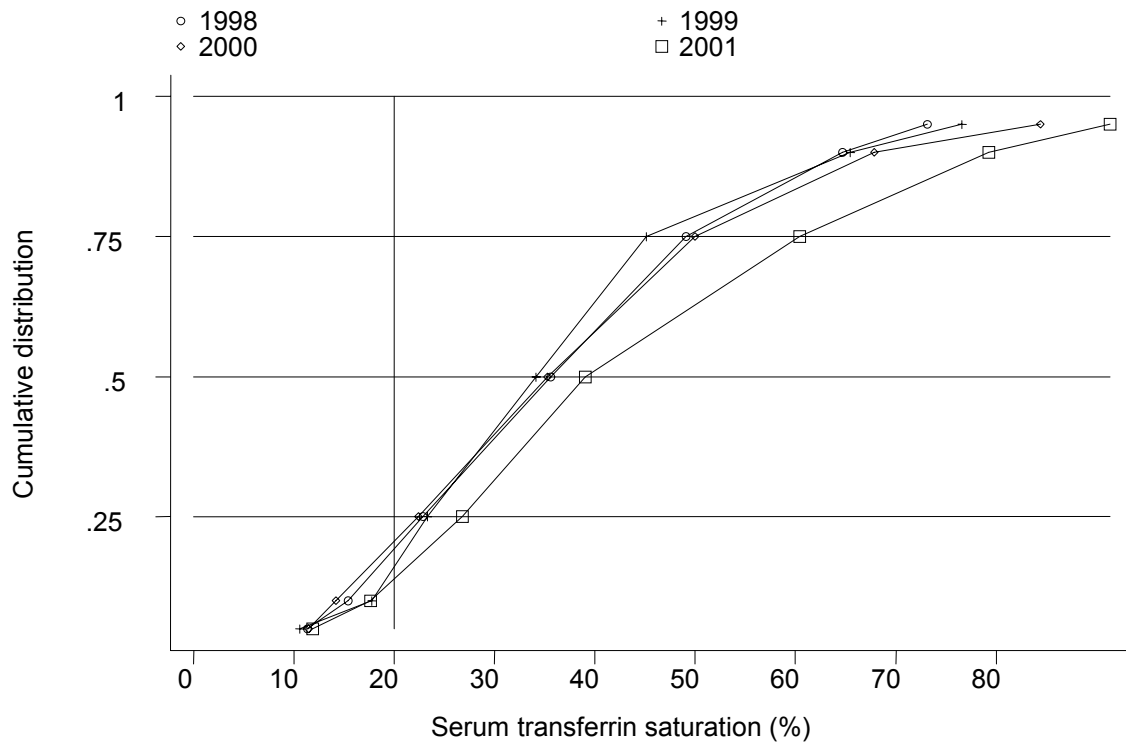


Table 4.42: Distribution of serum Transferrin Saturation on rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients > 20% |
|------|----------------|--------------------|--------|------|------|------------------|
| 1998 | 103 | 412 | 39.3 | 28.1 | 55 | 88 |
| 1999 | 92 | 368 | 37.2 | 25.3 | 48.1 | 85 |
| 2000 | 233 | 932 | 34.1 | 22 | 49.4 | 82 |
| 2001 | 261 | 1044 | 42.2 | 29.4 | 58.3 | 91 |

Figure 4.42: Cumulative distribution of serum Transferrin Saturation on rHuEpo by year

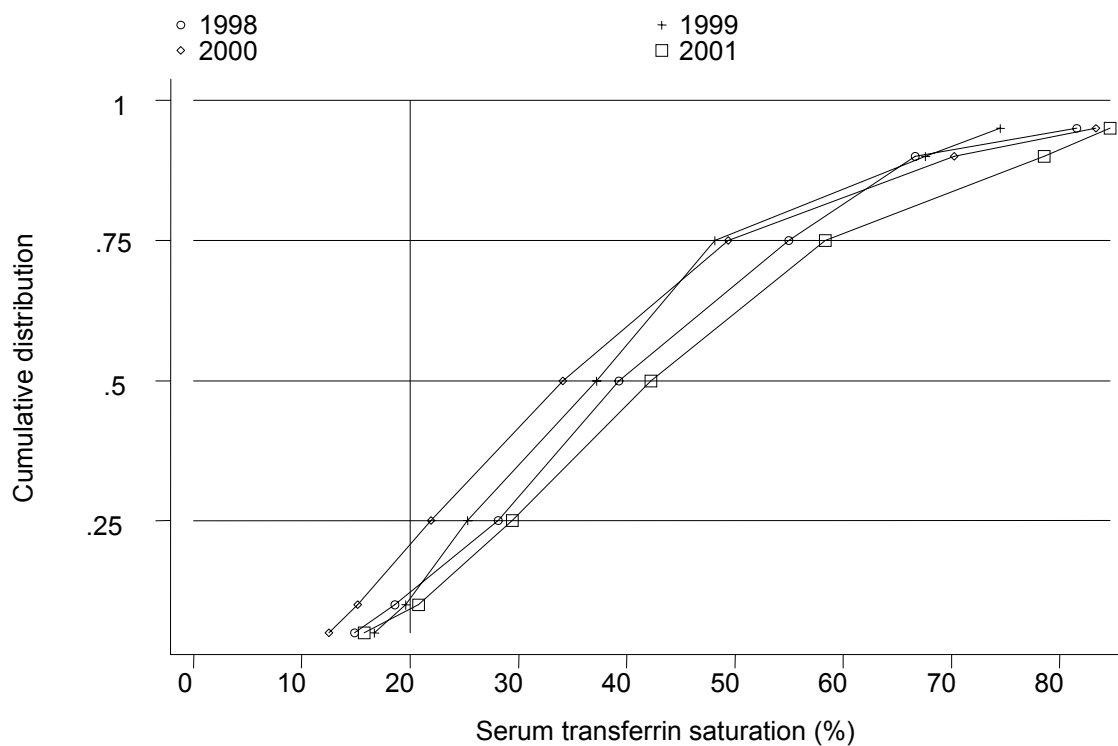


Table 4.43: Distribution of serum Ferritin without rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients > 100 ug/l |
|------|----------------|--------------------|--------|-------|-------|-----------------------|
| 1998 | 92 | 105 | 394 | 196 | 686 | 86 |
| 1999 | 124 | 154 | 482 | 259.7 | 729 | 93 |
| 2000 | 144 | 204 | 462 | 167.5 | 726.3 | 86 |
| 2001 | 219 | 313 | 436 | 226.6 | 774.2 | 91 |

Figure 4.43: Cumulative distribution of serum Ferritin without rHuEpo by year

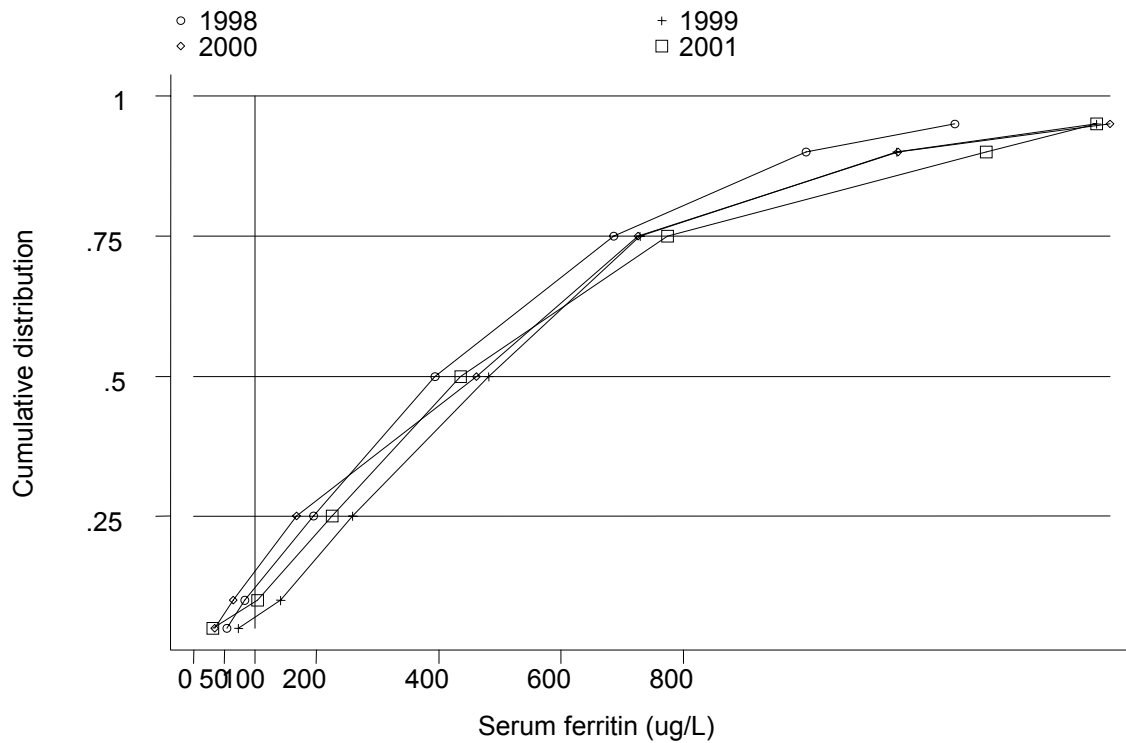


Table 4.44: Distribution of serum Ferritin concentration on rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients > 100 ug/l |
|------|----------------|--------------------|--------|-------|-------|-----------------------|
| 1998 | 135 | 185 | 518 | 246 | 851 | 92 |
| 1999 | 136 | 201 | 553.3 | 254 | 857.3 | 93 |
| 2000 | 180 | 271 | 545 | 292.9 | 839.5 | 90 |
| 2001 | 258 | 415 | 546 | 264 | 908.1 | 91 |

Figure 4.44: Cumulative distribution of serum Ferritin concentration on rHuEpo, by year

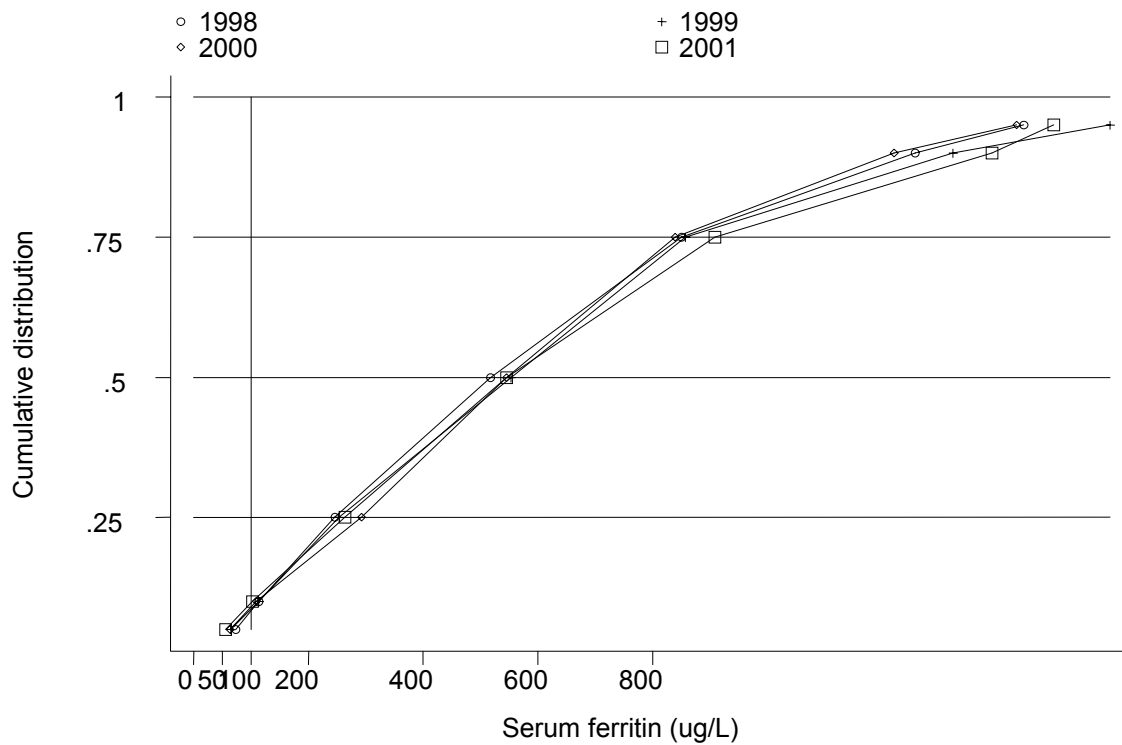


Table 4.45: Distribution of Haemoglobin concentration without rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients <10 g/dl | % patients ≥ 10 & ≤ 12 g/dl | % patients >12 g/dl |
|------|----------------|--------------------|--------|-----|------|---------------------|---------------------------------------|---------------------|
| 1998 | 301 | 915 | 9.2 | 8 | 10.5 | 65 | 26 | 9 |
| 1999 | 336 | 967 | 9.4 | 8.3 | 10.7 | 61 | 32 | 7 |
| 2000 | 342 | 960 | 9.8 | 8.6 | 11 | 53 | 35 | 12 |
| 2001 | 400 | 1073 | 9.8 | 8.6 | 11.1 | 55 | 33 | 12 |

Figure 4.45: Cumulative distribution of haemoglobin concentration without rHuEpo by year

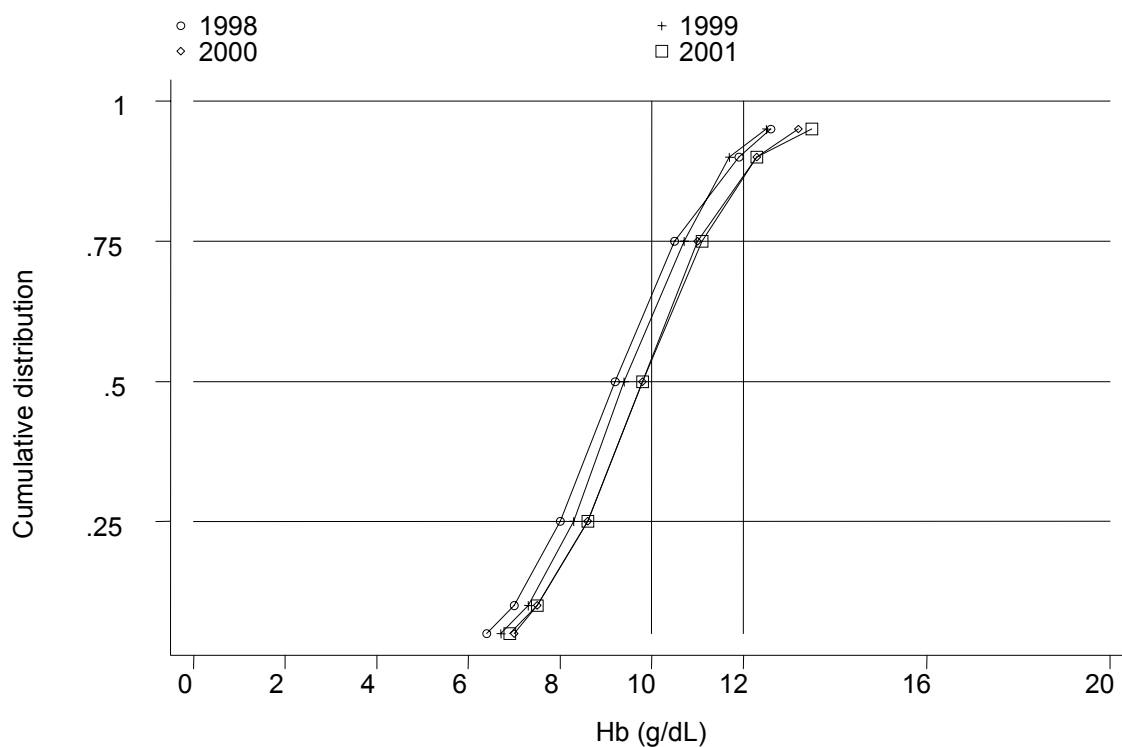
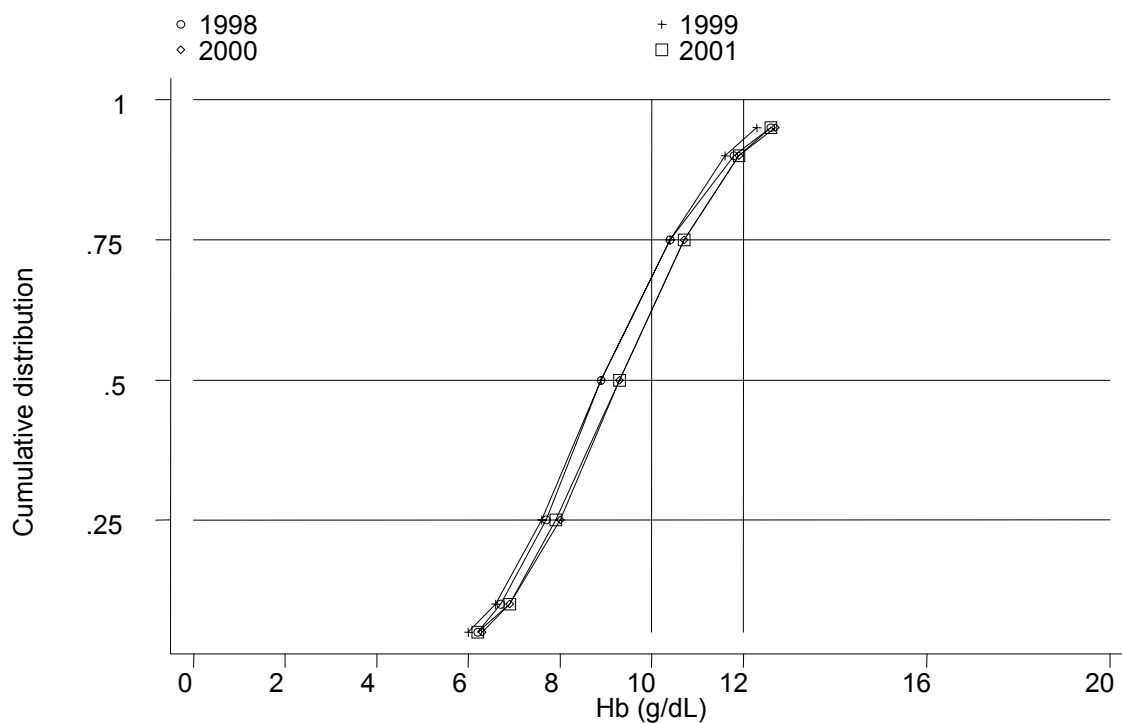


Table 4.46: Distribution of Haemoglobin concentration on rHuEpo, CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients <10 g/dl | % patients ≥ 10 & ≤ 12 g/dl | % patients >12 g/dl |
|------|----------------|--------------------|--------|-----|------|---------------------|---------------------------------------|---------------------|
| 1998 | 238 | 826 | 8.9 | 7.7 | 10.4 | 69 | 23 | 8 |
| 1999 | 262 | 906 | 8.9 | 7.6 | 10.4 | 69 | 25 | 6 |
| 2000 | 299 | 1013 | 9.3 | 8 | 10.7 | 62 | 30 | 9 |
| 2001 | 340 | 1179 | 9.3 | 7.9 | 10.7 | 62 | 28 | 9 |

Figure 4.46: Cumulative distribution of Haemoglobin on rHuEpo by year

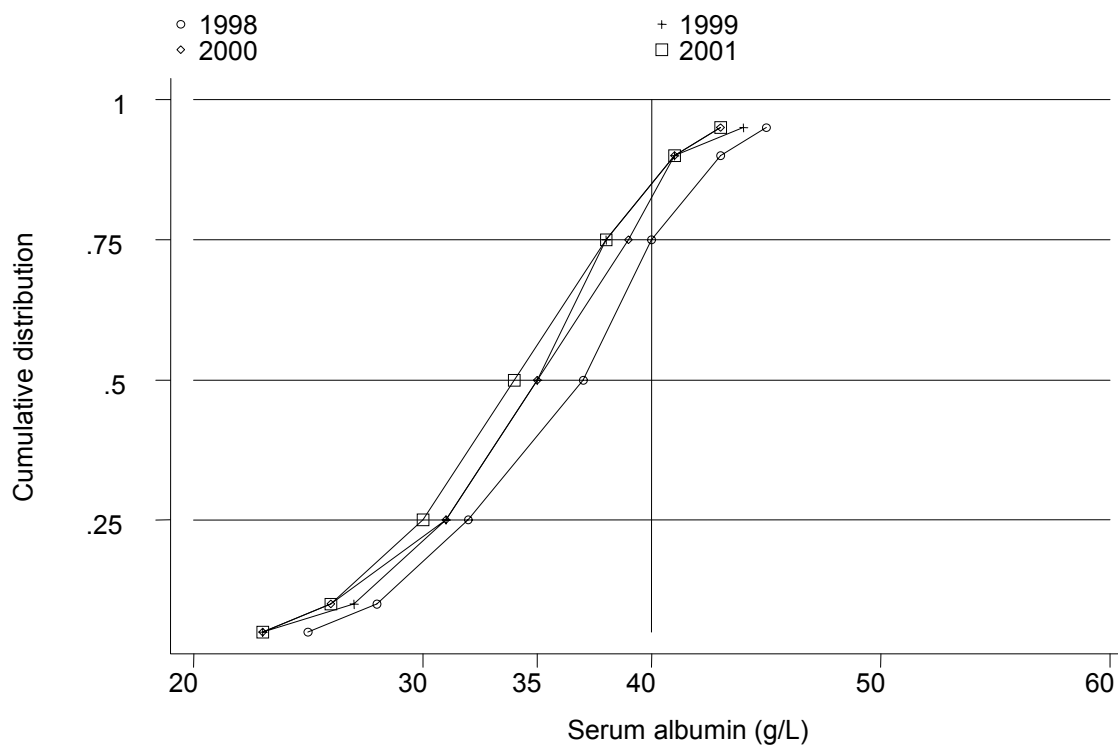


4.13 NUTRITIONAL STATUS OF CAPD PATIENTS, GOVERNMENT CENTRES

Table 4.47: Distribution of serum Albumin concentration (g/L), CAPD patients, Government Centres 1998 – 2001

| Year | No of subjects | No of observations | median | LQ | UQ | % patients >40g/l |
|------|----------------|--------------------|--------|----|----|-------------------|
| 1998 | 536 | 1692 | 37 | 32 | 40 | 29 |
| 1999 | 597 | 1872 | 35 | 31 | 38 | 18 |
| 2000 | 640 | 1970 | 35 | 31 | 39 | 19 |
| 2001 | 740 | 2275 | 34 | 30 | 38 | 15 |

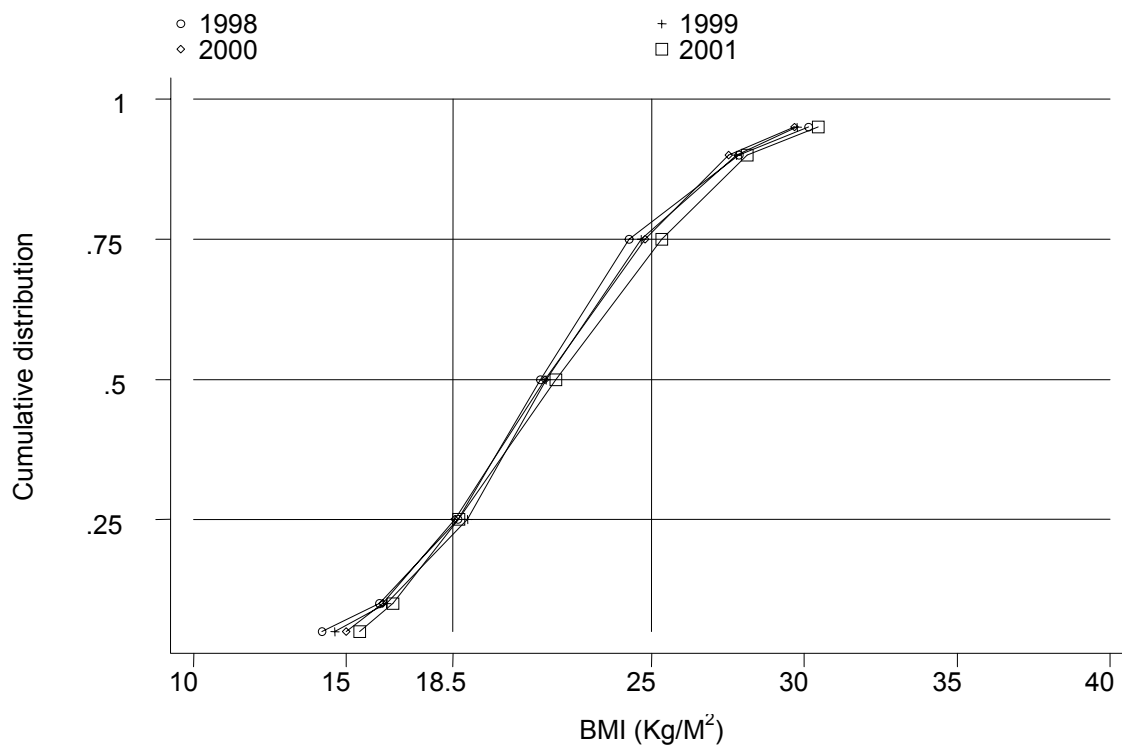
Figure 4.47: Cumulative distribution of serum Albumin concentration by year



**Table 4.48: Distribution of Body Mass Index CAPD patients, Government Centres
1998 – 2001**

| Year | No of subjects | No of observations | median | LQ | UQ | % patients <18.5 | % patients ≥ 18.5 & ≤ 25 | % patients >25 |
|------|----------------|--------------------|--------|------|------|------------------|------------------------------------|----------------|
| 1998 | 489 | 4243 | 21.4 | 18.7 | 24.3 | 23 | 55 | 21 |
| 1999 | 550 | 4316 | 21.5 | 19 | 24.7 | 22 | 56 | 23 |
| 2000 | 599 | 4990 | 21.5 | 18.6 | 24.8 | 25 | 53 | 23 |
| 2001 | 646 | 5502 | 21.9 | 18.7 | 25.3 | 23 | 50 | 27 |

Figure 4.48: Cumulative distribution of BMI by year



4.14 SEROLOGICAL STATUS, CAPD PATIENTS, GOVERNMENT CENTRES

Table 4.49: Prevalence of positive anti-HCV and HBsAg CAPD patients, Government Centres 1998 – 2001

| Year | No | % HBsAg positive | % anti-HCV positive |
|------|-----|------------------|---------------------|
| 1998 | 541 | 3 | 6 |
| 1999 | 610 | 2 | 5 |
| 2000 | 662 | 2 | 5 |
| 2001 | 772 | 2 | 3 |

Figure 4.49: Prevalence of positive anti-HCV and HBsAg CAPD patients, Government Centres 1998 – 2001

