

SOCIETY OF NEPHROLOGY, DIALYSIS AND TRANSPLANTATION OF THE BOSNIA AND HERZEGOVINA



THE RENAL REGISTRY OF BOSNIA AND HERZEGOVINA (ERA-EDTA Registry)

The Annual Report 2003

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The data reported here have been supplied by the Renal Registry
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data are the responsibility of the authors.

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A INTRODUCTION

Annual Report describes activities of the Society of nephrology, dialysis and transplantation of Bosnia and Herzegovina and Commission for Renal Registry of Bosnia and Herzegovina.

In 2003 it had been total 1954 patients (1060 men plus 894 women). The 918 patients in life age from 45 to 64 years.

The data for Renal Registry are collected 24 dialysis centres, by questionnaires for individual patients and by questionnaires for centres.

Epidemiological study of patients' numbers those they are in the terminal stage of kidney insufficiency and those they are under treatment by different methods was expressed by incidence and prevalence rate.

The new patients' number in 2003 had been 414. 29,7% had been older then 65 years, and the most frequently population had been form 45 toe 64 years, in percent that is 44,0%.

The average age of new patients is 61 years, percent of the Women is 50,7%, (Table 2.2). Incidence rate (PMP) had been 109,8 - Table B.2.3).

The most often reason of the new patients kidney insufficiency had been Pyelonephritis (22,70%), Diabetes mellitus existed on 22,52% patients.

The demographic specifications have given in tables the B.3.1 for the new patients, in Tables B.3.2 and B.3.3 after dialysis during three months main reasons were HBI, see Table B.3.4.

Modalities of the kidney insufficiency compensations have given with HBI in the tables B.3.5, the B.3.6 and the B.3.7. It is clearly that is HD the most used treatment methods to the new patients the (85,3%), and by the CAPD were treated 5,2% of the patients.

The table B.4.1 presents the prevalence rate (PMP) of the patients which are on dialysis program, and it is the 432,38 prevalent patients.

Life age structures of the patients which are on dialysis is similar like life age structure of the new patients, bur it is life age structure of our population was the 57 years (Table B.4.2).

The primary reason is Glomerulonephritis with the 24,98% of the chronically kidney insufficiency of our patients, bur diabetes mellitus existed to the 10,32% cases, (Table B.4.4).

Just as had shown in the Table B.4.5, on Haemodialysis treatment had been in total the 1562 patients, but on Peritoneal dialysis had been the 46 of patients with total PMP = 432,38 (94,26% of the patients are upon HD treatment).

The total number of the transplant ants, which contents patients which had been grafted during earlier years, is the 103, Table B.4.8.

B CENTRES COLLECTING INDIVIDUAT PATIENT DATA, INFORMATION VIA CENTRE QUESTIONNAIRES OR HEALTH AUTHORITIES

B.1 AFFILIATED REGISTRY INFORMATLON FOR 2003

Table B.1.1 General Population¹ of the country/region by age group and gender, and per cent coverage of the general population²

Country	General population in Thousands							% coverage of general population
	Gender	ALL	0 - 19	20 - 44	45-64	65-74	75+	
Bosnia and Herzegovina	Men	1869802	492811	732751	449921	152464	41855	48,8
	Women	1962425	469545	728208	493142	193682	77848	51,2
	All	3832227	962337	1460935	943044	346137	119703	100

¹ Mid year population as provided by the national statistics agency

² % of the general population covered by the renal centres collaborating with the registry

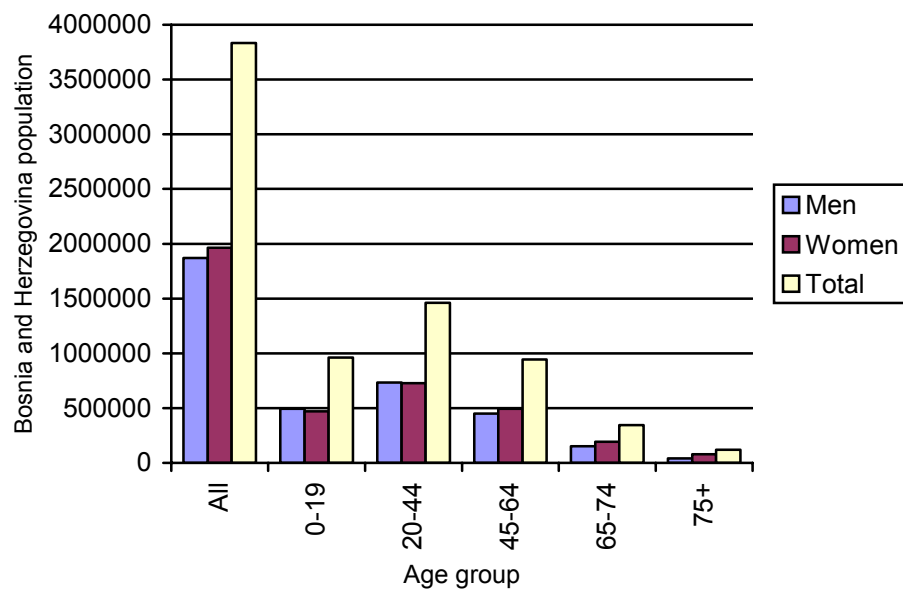


Table B.1.2 Renal centres¹: total number of centres and number collaborating

Country	Total number of renal centres	Number of renal centres collaborating with the registry
Bosnia and Herzegovina	24	24

¹ The number of renal centres is based on having a separate centre code

B.2 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2003 (RESIDENTS ONLY) AT DAY 1**Table B.2.1. Incident counts and incident rates per million population (at day 1, unadjusted)***

Country	Gender	N	Pmp
Bosnia and Herzegovina	Men	204	109,10
	Women	210	107,00
	All	414	108,03

* Percentages are row percentages

Table B.2.2 Gender, mean and median age of incident patients (at day 1)

Country	Gender	%	Age		
			Mean (Years)	(SD)	Median (Years)
Bosnia and Herzegovina	Men	49,3	58,09	13,857	61,00
	Women	50,7	57,25	14,480	61,00
	All	100,0	57,65	14,165	61,00

Table B.2.3 Incident rates per million population (at day 1, adjusted for age and gender)*

Country	Gender	ALL
		PMP
Bosnia and Herzegovina	Men	127,45
	Women	105,39
	All	116,15

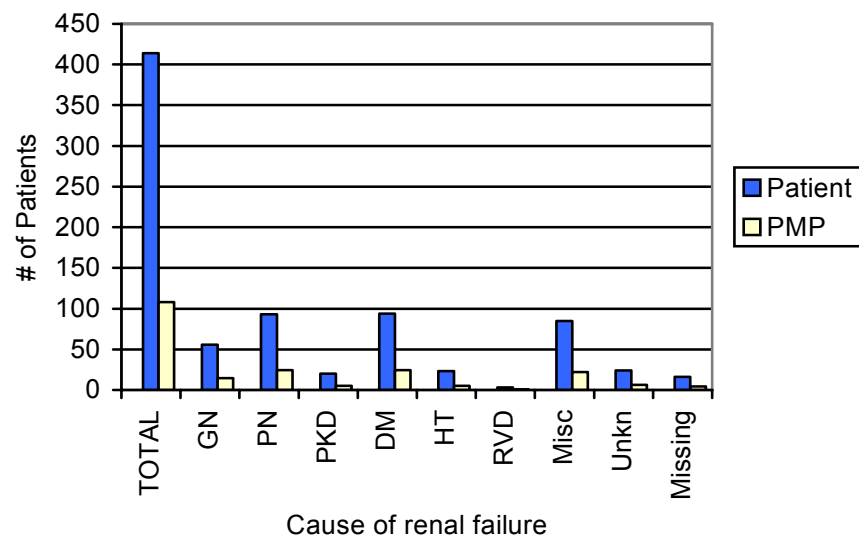
* adjustment to European population of 1995 (see Methods section: ¹ adjusted for age ² adjusted for age gender)

Table B.2.4 Incident rates per million population and percentage, by cause of renal failure*, (at day 1, unadjusted)

Country	Cause of Renal failure																			
	TOTAL		GN		PN		PKD		DM		HT		RVD		Misc		Unkn		Missing	
Bosnia and Herzegovina	414		56		94		20		93		23		3		85		24		16	
	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%
	108,03	100	14,61	13,55	24,53	22,70	5,22	4,84	24,26	22,52	108,03	100	14,61	13,55	24,53	22,70	5,22	4,84	24,26	22,52

Abbreviations used: GN: Glomerulonephritis/sclerosis; PN: Pyelonephritis; PKD: Polycystic kidneys, adult type; DM: Diabetes mellitus; HT: Hypertension; RVD: Renal vascular disease; Misc: Miscellaneous; Unkn: Unknown.

* Grouping renal disease see Methods section



B.3 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2003 (RESIDENTS ONLY) AT DAY 90

Table B.3.1 Incident counts and incident rates per million population (at day 90, unadjusted)

Country	Gender	ALL	
		N	Pmp
Bosnia and Herzegovina	Men	122	65,25
	Women	128	65,22
	All	250	64,71

Table B.3.2 Gender, mean and median age of incident patients (at day 90)

Country	Gender	%	Age		
			Mean (Years)	(SD)	Median (Years)
Bosnia and Herzegovina	Men	48,8	58,90	13,526	63,00
	Women	51,2	58,08	13,713	60,00
	All	100,0	57,00	13,626	61,00

Table B.3.3 Incident rates per million population (at day 90, adjusted for age and gender)*

Country	Gender	PMP
Bosnia and Herzegovina	Men ¹	80,00
	Women ¹	64,69
	All ²	72,16

* Adjustment to European population of 1995 (see Methods section): ¹adjusted for age; ²adjusted for age and gender

Table B.3.4 Incident rates per million population and percentage, by cause of renal failure* (at day 90, unadjusted)

Country	Cause of Renal failure																			
	TOTAL		GN		PN		PKD		DM		HT		RVD		Misc		Unkn		Missing	
Bosnia and Herzegovina	250		36		64		14		54		12		1		48		16		5	
	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%
	65,24	100	9,39	14,45	16,70	25,70	3,65	5,62	14,10	21,28	3,13	4,82	0,26	0,40	12,52	19,28	4,17	6,42	1,30	2,00

Abbreviations used: GN: Glomerulonephritis/sclerosis; PN: Pyelonephritis; PKD: Polycystic kidneys, adult type; DM: Diabetes mellitus; HT: Hypertension; RVD: Renal vascular disease; Misc: Miscellaneous; Unkn: Unknown.

* Grouping renal disease see Methods section

Table B.3.5 Incident counts, by established therapy (at day 90)

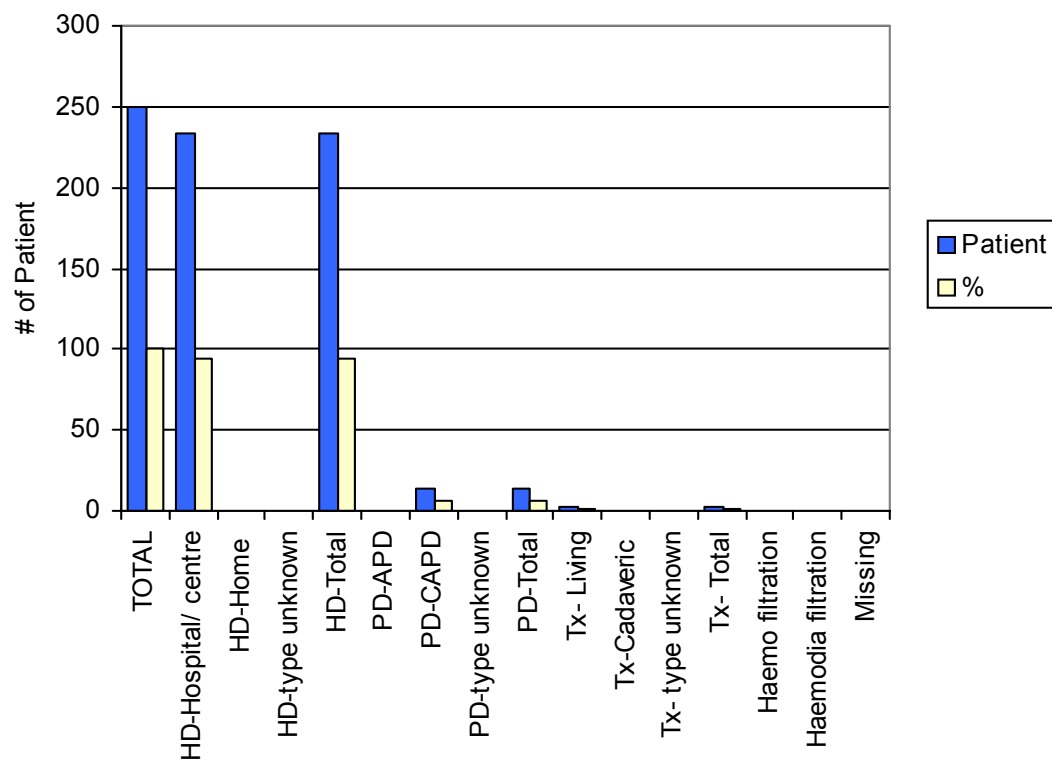
Country	TOTAL (HD+PD+Tx)	Haemodialysis				Peritoneal dialysis				Transplantant				Haemo filtration	Haemodia filtration	Missing
		Hospital/centre	Home	HD, type unknown	Total HD	APD	CAPD	PD, type unknown	Total PD	Living	Cadaveric	Tx, type unknown	Total Tx			
Bosnia and Herzegovina	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	250	234	0	0	234	0	14	0	14	2	0	0	2	0	0	0

Table B.3.6 Incident rates per million population, by established therapy (at day 90, unadjusted)

Country	TOTAL (HD+PD+Tx)	Haemodialysis				Peritoneal dialysis				Transplantant				Haemo filtration	Haemodia filtration	Missing
		Hospital/centre	Home	HD, type unknown	Total HD	APD	CAPD	PD, type unknown	Total PD	Living	Cadaveric	Tx, type unknown	Total Tx			
Bosnia and Herzegovina	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP
	65,24	61,06	0	0	61,06	0	3,65	0	3,65	0,52	0	0	0,52	0	0	0

Table B.3.7 Percentage of established therapy (at day 90, unadjusted)

Country	TOTAL (HD+PD+Tx)	Haemodialysis				Peritoneal dialysis				Transplantant				Haemo filtration	Haemodia filtration	Missing
		Hospital/centre	Home	HD, type unknown	Total HD	APD	CAPD	PD, type unknown	Total PD	Living	Cadaveric	Tx, type unknown	Total Tx			
Bosnia and Herzegovina	250	234	0	0	232	0	14	0	14	2	1	0	26	0		00
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	100,00	93,60	0	0	93,60	0	5,65	0	5,65	0,80	0	0	0,80	0	0	0



B.4 PREVALENT PATIENTS ON RRT IN 2003 (RESIDENTS ONLY)

Table B.4.1 Prevalent counts and per million population (patients alive on December 31, unadjusted)

Country	Gender	N	PMP
Bosnia and Herzegovina	Men	886	473,85
	Women	771	392,88
	All	1657	432,38

Table B.4.2 Gender, mean and median age of prevalent patients (alive on December 31)

Country	Gender	%	Age		
			Mean (Years)	(SD)	Median (Years)
Bosnia and Herzegovina	Men	53,5	54,98	13,660	56,00
	Women	46,5	56,58	13,957	58,00
	All	100,0	55,72	13,818	57,00

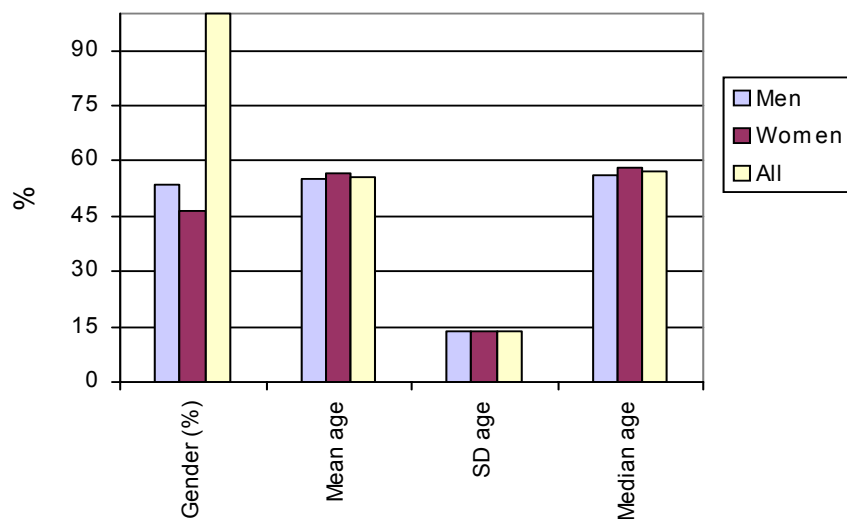


Table B.4.3 Prevalence per million population (patients alive on December 31, adjusted for age and gender)*

Country	Gender	PMP
Bosnia and Herzegovina	Men ¹	526,06
	Women ¹	385,79
	All ²	454,23

* adjustment to European population of 1995 (see Methods section): 1 adjusted for age: 2 adjusted for age and gender

Table B.4.4 Prevalence per million population and percentage, by cause of renal failure¹ (patients alive on December 31. (unadjusted)

Country	Cause of Renal failure																						
	TOTAL (1657)		GN (414)		PN (346)		PKD (103)		DM (171)			HT (79)		RVD (12)		Misc (395)		Unkn (98)		Missing (39)			
	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	PMP	%	
	432,38	100	108,03	24,98	90,28	20,88	26,88	6,21	-	-	-	-	44,62	10,32	20,61	4,76	3,13	0,72	103,07	23,84	25,57	5,91	10,17

Abbreviations used: GN: Glomerulonephritis/sclerosis; PN: Pyelonephritis; PKD: Polycystic kidneys, adult type; DM: Diabetes mellitus; HT: Hypertension; RVD: Renal vascular disease; Misc: Miscellaneous; Unkn: Unknown.

¹ Grouping renal disease see Methods section

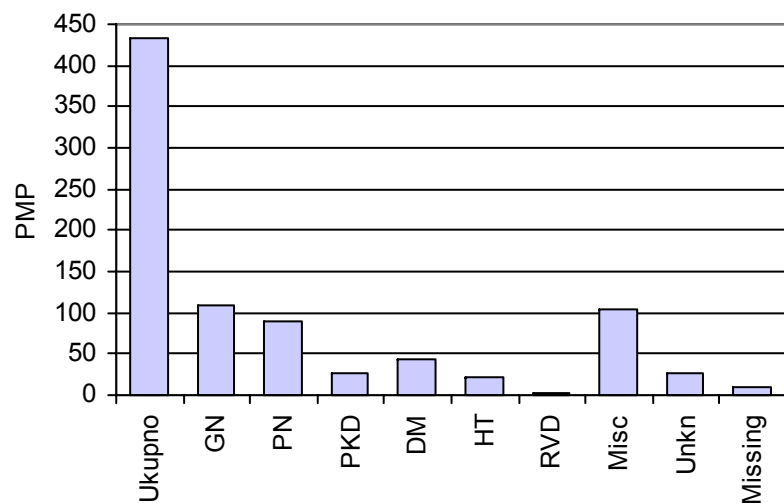


Table B.4.5 Prevalence counts, by established therapy (patients alive on December 31)

Country	TOTAL	Haemodialysis				Peritoneal dialysis				Transplantant				Haemo filtration	Haemodia filtration	Missing
		Hospital/centre	Home	HD, type unknown	Total HD	APD	CAPD	PD, type unknown	Total PD	Living	Cadaveric	Tx, type unknown	Total Tx			
Bosnia and Herzegovina	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	1657	1562	0	0	1652	0	46	0	46	25	1	0	26	0	0	23

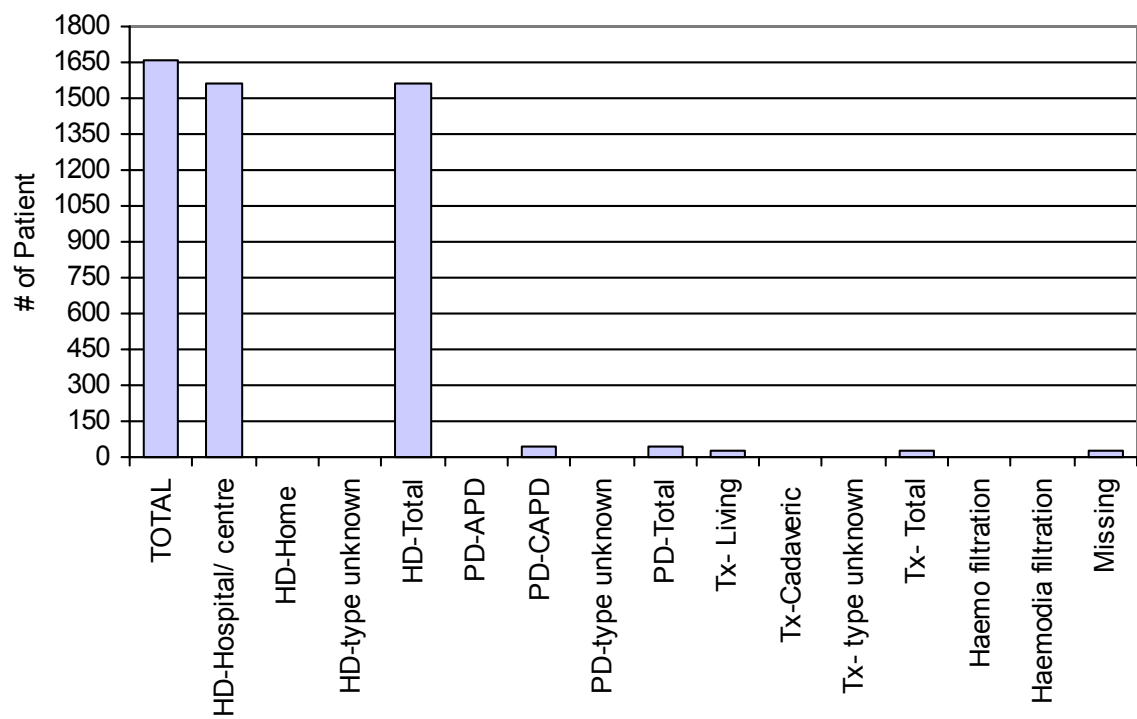


Table B.4.6 Prevalence per million population, by established therapy (patients alive on December 31, unadjusted)

Country	TOTAL (HD+PD+Tx)	Haemodialysis				Peritoneal dialysis				Transplantant				Haemo filtration	Haemodia filtration	Missing
		Hospital/c entre	Home	HD, type unknown	Total HD	APD	CAPD	PD, type unknown	Total PD	Living	Cadaveric	Tx, type unknown	Total Tx			
Bosnia and Herzegovina	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP	PMP
	432,38	407,60	0	0	407,60	0	12,00	0	12,00	6,52	0,26	0	6,78	0	0	6,00

Table B.4.7 Percentage of established therapy (patients alive on December 31, unadjusted)

Country	TOTAL (HD+PD+Tx)	Haemodialysis				Peritoneal dialysis				Transplantant				Haemo filtration	Haemodia filtration	Missing
		Hospital/ centre	Home	HD, type unknown	Total HD	APD	CAPD	PD, type unknown	Total PD	Living	Cadaveric	Tx, type unknown	Total Tx			
Bosnia and Herzegovina	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	100	94,26	0	0	94,26	0	2,77	0	2,77	1,50	0,07	0	1,57	0	0	1,39

Table B.4.8 Renal transplants, number and percentage by donor type

Country	TOTAL		Living								Cadaveric		Donor type unknown	
			Related		Unrelated		Living, type unknown		Living. All					
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Bosnia and Herzegovina	25	100	20	80,0	4	16,0	0	0	24	96,0	1	4,0	0	0

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B. Countries collecting individual patient data, information via centre questionnaires or health authorities (not included in ERA-EDTA registry database)

	<i>General population base</i>	<i>Patients</i>	<i>Reference population</i>
B.1 AFFILIATED REGISTRY INFORMATION FOR 2002			
Table B.1.1 General population of the country/region by age group and gender, and percent coverage of the general Population	2002		
Table B.1.2 Renal centres: total number of centres and number collaborating	2002		
B.2 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2002 (residents only) <u>AT DAY 1</u>			
Table B.2.1 Incident counts and incident rates per million population (at day 1, unadjusted)	2002	Cohort 2002	
Table B.2.2 Gender, mean and median age of incident patients (at day 1)		Cohort 2002	
Table B.2.3 Incident rates per million population (at day 1, adjusted for age and gender)	2002	Cohort 2002	EUR 1995
Table B.2.4 Incident rates per million population and percentage, by cause of renal failure (at day 1, unadjusted)	2002	Cohort 2002	
B.3 INCIDENT PATIENTS ACCEPTED FOR RRT IN 2002 (residents only) <u>AT DAY 90</u>			
Table B.3.1 Incident counts and incident rates per million population (at day 90, unadjusted)	2002	Cohort 2002	
Table B.3.2 Gender, mean and median age of incident patients (at day 90)		Cohort 2002	
Table B.3.3 Incident rates per million population (at day 90, adjusted for age and gender)	2002	Cohort 2002	EUR 1995
Table B.3.4 Incident rates per million population and percentage, by cause of renal failure (at day 90, unadjusted)	2002	Cohort 2002	
Table B.3.5 Incident counts, by established therapy (at day 90)		Cohort 2002	
Table B.3.6 Incident rates per million population, by established therapy (at day 90, unadjusted)	2002	Cohort 2002	
Table B.3.7 Percentage of established therapy (at day 90, unadjusted)		Cohort 2002	
B.4 PREVALENT PATIENTS ON RRT IN 2002 (residents only)			
Table B.4.1 Prevalent counts and per million population (patients alive on December 31, unadjusted)	2002	31-12-2002	
Table B.4.2 Gender, mean and median age of prevalent patients (alive on December 31)		31-12-2002	
Table B.4.3 Prevalence per million population (patients alive on December 31, adjusted for age and gender)	2002	31-12-2002	EUR 1995
Table B.4.4 Prevalence per million population and percentage, by cause of renal failure (patients alive on December 31, unadjusted)	2002	31-12-2002	
Table B.4.5 Prevalence counts, by established therapy (patients alive on December 31)		31-12-2002	
Table B.4.6 Prevalence per million population, by established therapy (patients alive on December 31, unadjusted)	2002	31-12-2002	
Table B.4.7 Percentage of established therapy (patients alive on December 31, unadjusted)		31-12-2002	
Table B.4.8 Renal transplants, number and percentage by donor type		01012002-31122002	

SECTION C METHODS**GROUPING OF RENAL DISEASES**

Primary Renal Disease (PRD)	1994 code	1995 code	PRD Group
Glomerulonephritis; histologically NOT examined	10	10	I
Focal segmental glomerulosclerosis with nephrotic syndrome in children	11	11	I
IgA nephropathy (proven by immunofluorescence, not code 76 and not 85)	12	12	I
Dense deposit disease; membrano-proliferative GN; type II (proven by immunofluorescence and/or electron microscopy)	13	13	I
Membranous nephropathy	14	14	I
Membrano-proliferative GN; type I (proven by immunofluorescence and/or electron microscopy - not code 84 or 89)	15	15	I
Crescentic (extracapillary) Glomerulonephritis (type I, II, III)	16	16	I
Focal segmental glomerulosclerosis with nephrotic syndrome in adults	17	17	I
Glomerulonephritis; histologically examined, not given above	19	19	I
Pyelonephritis - cause not specified	20	20	II
Pyelonephritis associated with neurogenic bladder	21	21	II
Pyelonephritis due to congenital obstructive uropathy with/without vesico-ureteric reflux	22	22	II
Pyelonephritis due to acquired obstructive uropathy	23	23	II
Pyelonephritis due to vesico-ureteric reflux without obstruction	24	24	II
Pyelonephritis due to urolithiasis	25	25	II
Pyelonephritis due to other cause	29	29	II
Interstitial nephritis (not pyelonephritis) due to other cause, or unspecified (not mentioned above)	30	30	VII
Nephropathy (interstitial) due to analgesic drugs	31	31	VII
Nephropathy (interstitial) due to cis-platinum	32	32	VII
Nephropathy (interstitial) due to cyclosporin A	33	33	VII
Lead induced nephropathy (interstitial)		34	VII
Drug induced nephropathy (interstitial) not mentioned above	39	39	VII
Cystic kidney disease - type unspecified	40	40	VII
Polycystic kidneys; adult type (dominant)	41	41	III
Polycystic kidneys; infantile (recessive)	42	42	VII
Medullary cystic disease; including nephronophthisis	43	43	VII
Cystic kidney disease - other specified type	49	49	VII
Hereditary/Familial nephropathy - type unspecified	50	50	VII
Hereditary nephritis with nerve deafness (Alport's Syndrome)	51	51	VII
Cystinosis	52	52	VII
Primary oxalosis	53	53	VII
Fabry's disease	54	54	VII
Hereditary nephropathy - other specified type	59	59	VII
Renal hypoplasia (congenital) - type unspecified	60	60	VII
Oligomeganephronic hypoplasia	61	61	VII
Congenital renal dysplasia with or without urinary tract malformation	63	63	VII
Syndrome of agenesis of abdominal muscles (Prune Belly)	66	66	VII
Renal vascular disease - type unspecified	70	70	V
Renal vascular disease due to malignant hypertension	71	71	IV
Renal vascular disease due to hypertension	72	72	IV
Renal vascular disease due to polyarteritis	73	73	VII
Wegener's granulomatosis	74	74	VII
Glomerulonephritis related to liver cirrhosis	76	76	VII

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Cryoglobulinaemic glomerulonephritis		78	VII
Renal vascular disease - due to other cause (not given above and not code 84-88)	79	79	V
Diabetes glomerulosclerosis or diabetic nephropathy - Type I	80	80	VI
Diabetes glomerulosclerosis or diabetic nephropathy - Type II	81	80	VI
Myelomatosis/light chain deposit disease	82	82	VII
Amyloid	83	83	VII
Lupus erythematosus	84	84	VII
Henoch-Schoenlein purpura	85	85	VII
Goodpasture's Syndrome	86	86	VII
Systemic sclerosis (scleroderma)	87	87	VII
Haemolytic Uraemic Syndrome (including Moschcowitz Syndrome)	88	88	VII
Multi-system disease - other (not mentioned above)	89	89	VII
Tubular necrosis (irreversible) or cortical necrosis (different from 88)	90	90	VII
Tuberculosis	91	91	VII
Gout	92	92	VII
Nephrocalcinosis and hypercalcaemic nephropathy	93	93	VII
Balkan nephropathy	94	94	VII
Kidney tumour	95	95	VII
Traumatic or surgical loss of kidney	96	96	VII
Other identified renal disorders	99	99	VII
Chronic renal failure; aetiology uncertain	00	00	VIII

I. Glomerulonephritis/sclerosis;

II. Pyelonephritis;

III. Polycystic kidneys, adult type;

IV. Hypertension;

V. Renal vascular disease;

VI. Diabetes mellitus;

VII. Miscellaneous;

VIII. Unknown.