

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



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

The Annual Report 2004

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Society of Nephrology, Dialysis and Transplantation of the Bosnia and Herzegovina

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The data reported here have been supplied by the Renal Registry Commission of the Society of Nephrology, Dialysis and Transplantation of the Bosnia and Herzegovina. The interpretation and reporting of these data are the responsibility of the authors.

A INTRODUCTION

This 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 2004 it had been total 1994 patients (1074 men plus 920 women). The 932 patients in life age from 45 to 64 years.

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

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 2004 had been 413. 39,2% had been older then 65 years, and the most frequently population had been form 45 toe 64 years, in percent that is 42,6%.

The average age of new patients is 60 years, percent of the Women is 43,3%, (Table 2.2). Incidence rate (PMP) had been 114,9 - Table B.2.3).

The most often reason of the new patients kidney insufficiency had been Diabetes mellitus (21,90%), Pyelonephritis existed on 20,9% 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 (94,7%), and by the CAPD were treated 2,8% 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 456,2 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 24,7% of the chronically kidney insufficiency of our patients, bur diabetes mellitus existed to the 10,9% cases, (Table B.4.4).

Just as had shown in the Table B.4.5, on Haemodialysis treatment had been in total the 1655 patients, but on Peritoneal dialysis had been the 58 of patients with total PMP = 456,2 (94,7% of the patients are upon HD treatment).

The total number of the transplants, which contents patients, is the 27, Table B.4.8.

Table B.1.1

General population of the country/region by age group and gender, and percent coverage of the general population in 2004

Country / Region name	General population in thousands							% Coverage of general population by the registry
	ALL	0-19	20-44	45-64	65-74	75+		
Bosnia-Herzegovina	Men	1.869	493	733	450	152	41	100,0
	Women	1.963	470	729	494	193	77	
	All	3.832	963	1.462	944	345	118	

Table B.1.2

Renal centers: total number of centers and number collaborating

Country / Region name	Total number of renal centers	Number of renal centers collaborating with the registry
Bosnia-Herzegovina	24	24

Table B.2.1Incident counts and incident rates per million population, unadjusted *at day 1*

Country / Region name	All		Men		Women	
	N	Pmp	N	Pmp	N	Pmp
Bosnia-Herzegovina	413	107,8	234	125,2	179	91,2

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

Country / Region name	%	All			%	Men			%	Women		
		Mean (years)	SD	Median (years)		Mean (years)	SD	Median (years)		Mean (years)	SD	Median (years)
Bosnia-Herzegovina	100	57,8	14,4	60,0	56,7	56,3	15,2	58,0	43,3	59,7	13,2	63,0

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

Country / Region name	All Pmp	Men Pmp	Women Pmp
Bosnia-Herzegovina	114,9	143,4	86,4

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

Country / Region name	Total	GN	PN	PKD	DM			HT	RVD	Misc	Unkn	Missing
	N	N	N	N	Type I N	Type II N	Both N	N	N	N	N	N
Bosnia-Herzegovina	413	68	80	22	84	0	84	18	5	70	48	18

Country / Region name	Total		GN		PN		PKD		DM				HT		RVD		Misc		Unkn		Missing			
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Type I Pmp	Type I %	Type II Pmp	Type II %	Both Pmp	Both %	Pmp	%	Pmp	%	Pmp	%	Pmp	%		
Bosnia-Herzegovina	107,8	100	17,7	16,5	20,9	19,4	5,7	5,3	21,9	20,3	0,0	0,0	21,9	20,3	4,7	4,4	1,3	1,2	18,3	16,9	12,5	11,6	4,7	4,4

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; T: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown

Table B.3.1Incident counts and incident rates per million population, unadjusted *at day 91*

Country / Region name	All		Men		Women	
	N	Pmp	N	Pmp	N	Pmp
Bosnia-Herzegovina	282	73,6	162	86,7	120	61,1

Table B.3.2Gender, mean and median age of incident patients *at day 91*

Country / Region name	All				Men				Women			
	%	Mean (years)	SD	Median (years)	%	Mean (years)	SD	Median (years)	%	Mean (years)	SD	Median (years)
Bosnia-Herzegovina	100	57,3	14,7	60,5	57,4	56,8	15,2	59,0	42,6	58,1	14,1	62,0

Table B.3.3Incident rates per million population, adjusted *at day 91, adjusted for age and gender*

Country / Region name	All Pmp	Men Pmp	Women Pmp
Bosnia-Herzegovina	79,6	101,6	57,6

Table B.3.4Incident rates per million population and percentage, unadjusted *at day 91, by cause of renal failure*

Country / Region name	Total	GN	PN	PKD	DM			HT	RVD	Misc	Unkn	Missing
	N	N	N	N	Type I N	Type II N	Both N	N	N	N	N	N
Bosnia-Herzegovina	282	49	61	16	54	0	54	8	1	49	34	10

Country / Region name	Total		GN		PN		PKD		DM			HT	RVD	Misc	Unkn	Missing								
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Type I Pmp %	Type II Pmp %	Both Pmp %	Pmp %	Pmp %	Pmp %	Pmp %	Pmp %								
Bosnia-Herzegovina	73,6	100,0	12,8	17,4	15,9	21,6	4,2	5,7	14,1	19,1	0,0	0,0	14,1	19,1	2,1	2,8	0,3	0,4	12,8	17,4	8,9	12,1	2,6	3,5

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

Table B.3.5Incident counts *at day 91, by established therapy*

Country / Region name	Total	Haemodialysis						Peritoneal Dialysis				Transplant			Missing	
	N	Hospital / Centre	Home	HD, type unknown	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD, type unknown	Total PD	Living	Cadaver	Tx, type unknown	Total Tx	N
Bosnia-Herzegovina	282	267	0	0	0	0	267	0	8	0	8	7	0	0	7	0

Abbreviations used: HD: haemodialysis; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant

Table B.3.6Incident rates per million population, unadjusted *at day 91, by established therapy*

Country / Region name	Total	Haemodialysis						Peritoneal Dialysis				Transplant			Missing	
	pmp	Hospital / Centre	Home	HD, type unknown	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD, type unknown	Total PD	Living	Cadaver	Tx, type unknown	Total Tx	pmp
Bosnia-Herzegovina	73,6	69,7	0,0	0,0	0,0	0,0	69,7	0,0	2,1	0,0	2,1	1,8	0,0	0,0	1,8	0,0

Table B.3.7Percentage of established therapy, unadjusted *at day 91*

Country / Region name	Total	Haemodialysis						Peritoneal Dialysis				Transplant			Missing	
	%	Hospital / Centre	Home	HD, type unknown	HF	HDF	Total HD/HF/HDF	APD	CAPD	PD, type unknown	Total PD	Living	Cadaver	Tx, type unknown	Total Tx	%
Bosnia-Herzegovina	100	94,7	0,0	0,0	0,0	0,0	94,7	0,0	2,8	0,0	2,8	2,5	0,0	0,0	2,5	0,0

Table B.4.1Prevalent counts and prevalence per million population, unadjusted *prevalent patients on December 31*

Country / Region name	All		Men		Women	
	N	Pmp	N	Pmp	N	Pmp
Bosnia-Herzegovina	1748	456,2	952	509,4	796	405,5

Table B.4.2Gender, mean and median age *prevalent patients on December 31*

Country / Region name	All				Men				Women			
	%	Mean (years)	SD	Median (years)	%	Mean (years)	SD	Median (years)	%	Mean (years)	SD	Median (years)
Bosnia-Herzegovina	100	55,5	14,0	57,0	54,5	54,5	13,9	55,0	45,5	56,6	14,0	58,0

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

Country / Region name	All Pmp	Men Pmp	Women Pmp
Bosnia-Herzegovina	469,6	543,0	396,1

Table B.4.4Prevalence per million population and percentage, unadjusted *prevalent patients on December 31, by cause of renal failure*

Country / Region name	Total		GN		PN		PKD		DM			HT		RVD		Misc		Unkn		Missing	
	N	%	N	%	N	%	N	%	Type I N	Type II N	Both N	N	%	N	%	N	%	N	%	N	%
Bosnia-Herzegovina	1748		431		363		127		190	0	190	92		12		382		134		17	

Country / Region name	Total		GN		PN		PKD		DM			HT		RVD		Misc		Unkn		Missing		
	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Type I Pmp	Type II Pmp	Both Pmp	Pmp	%	Pmp	%	Pmp	%	Pmp	%	Pmp	%	
Bosnia-Herzegovina	456,2	100,0	112,5	24,7	94,7	20,8	33,1	7,3	49,6	0,0	49,6	10,9	24,0	5,3	3,1	0,7	99,7	21,9	35,0	7,7	4,4	1,0

Abbreviations used: GN: glomerulonephritis/sclerosis; PN: pyelonephritis; PKD: polycystic kidneys, adult type; DM: diabetes mellitus; T: hypertension; RVD: renal vascular disease; Misc: miscellaneous; Unkn: unknown

Table B.4.5Prevalence counts *prevalent patients on December 31, by established therapy*

Country / Region name	Total N	Haemodialysis						Peritoneal Dialysis				Transplant			Missing N	
		Hospital / Centre N	Home N	HD, type unknown N	HF N	HDF N	Total HD/HF/HDF N	APD N	CAPD N	PD, type unknown N	Total PD N	Living N	Cadaver N	Tx, type unknown N		Total Tx N
Bosnia-Herzegovina	1748	1655	0	0	0	0	1655	1	57	0	58	23	2	0	25	10

Abbreviations used: HD: haemodialysis; HF: haemofiltration; HDF: haemodiafiltration; APD: automated peritoneal dialysis; CAPD: continuous ambulatory peritoneal dialysis; PD: peritoneal dialysis; Tx: transplant

Table B.4.6Prevalence per million population, unadjusted *prevalent patients on December 31, by established therapy*

Country / Region name	Total pmp	Haemodialysis						Peritoneal Dialysis				Transplant			Missing pmp	
		Hospital / Centre pmp	Home pmp	HD, type unknown pmp	HF pmp	HDF pmp	Total HD/HF/HDF pmp	APD pmp	CAPD pmp	PD, type unknown pmp	Total PD pmp	Living pmp	Cadaver pmp	Tx, type unknown pmp		Total Tx pmp
Bosnia-Herzegovina	456,2	431,9	0,0	0,0	0,0	0,0	431,9	0,3	14,9	0,0	15,1	6,0	0,5	0,0	6,5	2,6

Table B.4.7Percentage of established therapy, unadjusted *prevalent patients on December 31*

Country / Region name	Total %	Haemodialysis						Peritoneal Dialysis				Transplant			Missing %	
		Hospital / Centre %	Home %	HD, type unknown %	HF %	HDF %	Total HD/HF/HDF %	APD %	CAPD %	PD, type unknown %	Total PD %	Living %	Cadaver %	Tx, type unknown %		Total Tx %
Bosnia-Herzegovina	100	94,7	0,0	0,0	0,0	0,0	94,7	0,1	3,3	0,0	3,3	1,3	0,1	0,0	1,4	0,6

Table B.4.8Renal transplants performed in 2004, number and percentage *by donor type*

Country / Region name	Total		Living						Cadaver		Donor type unknown			
	N	%	Related		Unrelated		Type unknown		All		N	%	N	%
			N	%	N	%	N	%	N	%				
Bosnia-Herzegovina	27	100	21	77,8	4	14,8	0	0,0	25	92,6	2	7,4	0	0,0