



BOSNIA AND HERZEGOVINA - BASIC COLLECTIVE DATA FOR 2018

Number of dialysis and transplantation centers in B&H →		27	15	11	1	
Data Name ↓		B&H	FB&H	RS	BRCKO DC	
INCIDENT PATIENTS	Incident patients (at day 1) - ALL	N	440	260	155	25
		Pmp	124,6	117,2	126,2	299,3
		Median	64,0	62,0	65,0	67,0
		Mean	62,0	61,0	63,3	64,8
	Age groups ALL incident patients (at day 1):					
	(1) 0-19	N	5	3	2	0
		%	1,1%	1,2%	1,3%	0,0%
	(2) 20-44	N	48	32	15	1
		%	10,9%	12,3%	9,7%	4,0%
	(3) 45-64	N	176	111	54	11
		%	40,0%	42,7%	34,8%	44,0%
	(4) 65-74	N	126	68	52	6
		%	28,6%	26,2%	33,5%	24,0%
	(5) 75+	N	85	46	32	7
		%	19,3%	17,7%	20,6%	28,0%
	Incident patients (at day 1) - Male	N	262	158	90	14
		%	59,5%	60,8%	58,1%	56,0%
		Pmp	151,2	145,2	149,2	339,4
		Median	63,0	63,0	64,0	65,5
		Mean	61,5	60,6	62,6	64,7
Age groups ALL incident patients (at day 1): Male						
(1) 0-19	N	3	2	1	0	
	%	1,1%	1,3%	1,1%	0,0%	
(2) 20-44	N	29	19	10	0	
	%	11,1%	12,0%	11,1%	0,0%	
(3) 45-64	N	112	70	35	7	
	%	42,7%	44,3%	38,9%	50,0%	
(4) 65-74	N	69	43	23	3	
	%	26,3%	27,2%	25,6%	21,4%	
(5) 75+	N	49	24	21	4	
	%	18,7%	15,2%	23,3%	28,6%	
Incident patients (at day 1) - Female	N	178	102	65	11	
	%	40,5%	39,2%	41,9%	44,0%	
	Pmp	98,9	90,2	103,9	260,3	
	Median	65,0	62,0	66,0	70,0	
	Mean	62,5	61,2	64,2	64,8	
Age groups ALL incident patients (at day 1): Female						
(1) 0-19	N	2	1	1	0	
	%	1,1%	1,0%	1,5%	0,0%	
(2) 20-44	N	19	13	5	1	
	%	10,7%	12,7%	7,7%	9,1%	
(3) 45-64	N	64	41	19	4	
	%	36,0%	40,2%	29,2%	36,4%	
(4) 65-74	N	57	25	29	3	
	%	32,0%	24,5%	44,6%	27,3%	
(5) 75+	N	36	22	11	3	
	%	20,2%	21,6%	16,9%	27,3%	
Primary renal disease incident patients (at day 1):						
(1) Glomerulonephritis/sclerosis (GN)	N	54	25	18	11	
	%	12,3%	9,6%	11,6%	44,0%	
(2) Pyelonephritis/sclerosis (PN)	N	41	27	14	0	
	%	9,3%	10,4%	9,0%	0,0%	
(3) Polycystic kidneys, adult tip (PKD)	N	22	17	4	1	
	%	5,0%	6,5%	2,6%	4,0%	
(4) Hypertension (HT)	N	56	19	36	1	
	%	12,7%	7,3%	23,2%	4,0%	
(5) Renal vascular diseases (RVD)	N	7	6	1	0	
	%	1,6%	2,3%	0,6%	0,0%	
Diabetes mellitus - Typ I (DM)	N	22	14	8	0	
	%	5,0%	5,4%	5,2%	0,0%	
Diabetes mellitus - Typ II (DM)	N	106	63	35	8	
	%	24,1%	24,2%	22,6%	32,0%	
(6) Diabetes mellitus all Typ - (DM)	N	128	77	43	8	
	%	29,1%	29,6%	27,7%	32,0%	
(7) Miscellaneous	N	69	43	22	4	
	%	15,7%	16,5%	14,2%	16,0%	
(8) Unknown	N	63	46	17	0	
	%	14,3%	17,7%	11,0%	0,0%	



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Incident patients (at day 91) - ALL	N	407	234	149	24
	Pmp	115,3	105,4	121,3	287,4
	Median	64,0	62,0	65,0	69,0
Incident patients (at day 91) - Male	N	239	142	84	13
	%	58,7%	60,7%	56,4%	54,2%
	Pmp	138,0	130,5	139,3	315,2
Incident patients (at day 91) - Female	N	168	92	65	11
	%	41,3%	39,3%	43,6%	45,8%
	Pmp	93,4	81,3	103,9	260,3
Incident patients (at day 91) - Female	Median	65,0	61,0	66,0	70,0
	Age groups ALL incident patients (at day 91):				
	(1) 0-19	N	5	3	2
	%	1,2%	1,3%	1,3%	0,0%
(2) 20-44	N	44	28	15	1
	%	10,8%	12,0%	10,1%	4,2%
(3) 45-64	N	164	102	52	10
	%	40,3%	43,6%	34,9%	41,7%
(4) 65-74	N	120	62	52	6
	%	29,5%	26,5%	34,9%	25,0%
(5) 75+	N	74	39	28	7
	%	18,2%	16,7%	18,8%	29,2%
Prevalent patients - ALL	N	2703	1533	1082	88
	Pmp	765,5	690,8	880,8	1053,7
	Median	61,0	59,0	65,0	67,0
	Mean	59,3	57,1	62,2	62,8
Age groups ALL prevalent patients:					
(1) 0-19	N	15	11	4	0
	%	0,6%	0,7%	0,4%	0,0%
(2) 20-44	N	444	297	135	12
	%	16,4%	19,4%	12,5%	13,6%
(3) 45-64	N	1143	716	398	29
	%	42,3%	46,7%	36,8%	33,0%
(4) 65-74	N	696	334	336	26
	%	25,7%	21,8%	31,1%	29,5%
(5) 75+	N	405	175	209	21
	%	15,0%	11,4%	19,3%	23,9%
Prevalent patients - Male	N	1629	909	669	51
	%	60,3%	59,3%	61,8%	58,0%
	Pmp	940,4	835,5	1109,4	1236,4
	Median	60,0	58,0	63,0	66,5
	Mean	58,8	56,8	61,0	63,4
Age groups prevalent patients: Male					
(1) 0-19	N	9	7	2	0
	%	0,6%	0,8%	0,3%	0,0%
(2) 20-44	N	278	180	91	7
	%	17,1%	19,8%	13,6%	13,7%
(3) 45-64	N	722	434	271	17
	%	44,3%	47,7%	40,5%	33,3%
(4) 65-74	N	397	193	192	12
	%	24,4%	21,2%	28,7%	23,5%
(5) 75+	N	223	95	113	15
	%	13,7%	10,5%	16,9%	29,4%
Prevalent patients - Female	N	1074	624	413	37
	%	39,7%	40,7%	38,2%	42,0%
	Pmp	597,0	551,6	660,4	875,4
	Median	62,0	60,0	67,0	67,0
	Mean	60,2	57,6	64,2	62,0
Age groups prevalent patients: Female					
(1) 0-19	N	6	4	2	0
	%	0,6%	0,6%	0,5%	0,0%
(2) 20-44	N	166	117	44	5
	%	15,5%	18,8%	10,7%	13,5%
(3) 45-64	N	421	282	127	12
	%	39,2%	45,2%	30,8%	32,4%
(4) 65-74	N	299	141	144	14
	%	27,8%	22,6%	34,9%	37,8%
(5) 75+	N	182	80	96	6
	%	16,9%	12,8%	23,2%	16,2%



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Primary renal disease prevalent patients:					
(1) Glomerulonephritis/sclerosis (GN)	N	538	302	209	27
	%	19,9%	19,7%	19,3%	30,7%
(2) Pyelonephritis/sclerosis (PN)	N	354	225	122	7
	%	13,1%	14,7%	11,3%	8,0%
(3) Polycystic kidneys, adult tip (PKD)	N	151	90	57	4
	%	5,6%	5,9%	5,3%	4,5%
(4) Hypertension (HT)	N	348	172	161	15
	%	12,9%	11,2%	14,9%	17,0%
(5) Renal vascular diseases (RVD)	N	24	16	6	2
	%	0,9%	1,0%	0,6%	2,3%
Diabetes mellitus - Typ I (DM)	N	236	123	107	6
	%	8,7%	8,0%	9,9%	6,8%
Diabetes mellitus - Typ II (DM)	N	308	198	99	11
	%	11,4%	12,9%	9,1%	12,5%
(6) Diabetes mellitus all Typ - (DM)	N	544	321	206	17
	%	20,1%	20,9%	19,0%	19,3%
(7) Miscellaneous	N	454	208	234	12
	%	16,8%	13,6%	21,6%	13,6%
(8) Unknown	N	290	199	87	4
	%	10,7%	13,0%	8,0%	4,5%
Diabetes mellitus (Prevalent patients) - Male	N	352	203	138	11
	%	64,7%	63,2%	67,0%	64,7%
	Pmp	203,2	186,6	228,8	266,7
	Median	64,0	62,5	65,0	69,0
	Mean	61,8	61,6	62,8	65,0
Age groups prevalent patients with DM - Male					
(1) 0-19	N	0	0	0	0
	%	0,0%	0,0%	0,0%	0,0%
(2) 20-44	N	44	27	16	1
	%	12,5%	13,3%	11,6%	9,1%
(3) 45-64	N	143	86	53	4
	%	40,6%	42,4%	38,4%	36,4%
(4) 65-74	N	123	63	58	2
	%	34,9%	31,0%	42,0%	18,2%
(5) 75+	N	42	27	11	4
	%	11,9%	13,3%	8,0%	36,4%
Diabetes mellitus (Prevalent patients) - Female	N	192	118	68	6
	%	35,3%	36,8%	33,0%	35,3%
	Pmp	106,7	104,3	108,7	142,0
	Median	67,0	66,0	68,0	75,0
	Mean	63,7	62,7	64,8	72,8
Age groups prevalent patients with DM: Female					
(1) 0-19	N	0	0	0	0
	%	0,0%	0,0%	0,0%	0,0%
(2) 20-44	N	27	19	8	0
	%	14,1%	16,1%	11,8%	0,0%
(3) 45-64	N	55	35	19	1
	%	28,6%	29,7%	27,9%	16,7%
(4) 65-74	N	67	39	26	2
	%	34,9%	33,1%	38,2%	33,3%
(5) 75+	N	43	25	15	3
	%	22,4%	21,2%	22,1%	50,0%
Treatment modality prevalent patients (HD, PD, Tx):					
Haemodialysis (HD) - Totall:	N	2238	1152	1006	80
	%	82,8%	75,1%	93,0%	90,9%
Centre haemodialysis	N	1256	1026	229	1
	%	56,1%	89,1%	22,8%	1,3%
Home haemodialysis	N	0	0	0	0
	%	0,0%	0,0%	0,0%	0,0%
Haemodialysis type unknown	N	0	0	0	0
	%	0,0%	0,0%	0,0%	0,0%
Haemofiltration	N	0	0	0	0
	%	0,0%	0,0%	0,0%	0,0%
Haemodiafiltration	N	982	126	777	79
	%	43,9%	10,9%	77,2%	98,8%

PREVALENT PATIENTS



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Peritoneal dialysis - Total:	N	98	82	16	0	
	%	3,6%	5,3%	1,5%	0,0%	
APD	N	2	1	1	0	
	%	2,0%	1,2%	6,3%	0,0%	
CAPD	N	91	81	10	0	
	%	92,9%	98,8%	62,5%	0,0%	
Peritoneal dialysis type unknown	N	5	0	5	0	
	%	5,1%	0,0%	31,3%	0,0%	
Transplantations patients - All	N	367	299	60	8	
	%	13,6%	19,5%	5,5%	9,1%	
	Pmp	103,9	134,7	48,8	95,8	
	Median	46,0	47,0	41,0	38,0	
Transplantation, living related donor	N	189	149	34	6	
	%	51,5%	49,8%	56,7%	75,0%	
Transplantation, living unrelated donor	N	56	51	4	1	
	%	15,3%	17,1%	6,7%	12,5%	
Transplantation, cadaveric donor	N	116	94	21	1	
	%	31,6%	31,4%	35,0%	12,5%	
Transplantation, donor type unknown	N	6	5	1	0	
	%	1,6%	1,7%	1,7%	0,0%	
Blood transmitted diseases prevalent patients:						
HbsAg +	N	56	29	27	0	
	%	2,1%	1,9%	2,5%	0,0%	
Anti-HCV +	N	145	89	52	4	
	%	5,4%	5,8%	4,8%	4,5%	
HbsAg+HCV	N	12	7	5	0	
	%	0,4%	0,5%	0,5%	0,0%	
Anti-HIV +	N	1	0	1	0	
	%	0,0%	0,0%	0,1%	0,0%	
Vascular access for haemodialysis:						
AV Fistula	N	1740	785	886	69	
	%	77,7%	68,1%	88,1%	86,3%	
Forearm	N	1613	683	862	68	
	%	72,1%	59,3%	85,7%	85,0%	
Upper arm	N	127	102	24	1	
	%	5,7%	8,9%	2,4%	1,3%	
AV Graft	N	5	0	4	1	
	%	0,2%	0,0%	0,4%	1,3%	
Forearm	N	2	0	2	0	
	%	0,1%	0,0%	0,2%	0,0%	
Upper arm	N	0	0	0	0	
	%	0,0%	0,0%	0,0%	0,0%	
Thigh	N	3	0	2	1	
	%	0,1%	0,0%	0,2%	1,3%	
Catheter temporary	N	196	137	55	4	
	%	8,8%	11,9%	5,5%	5,0%	
Subklavia vein	N	51	37	13	1	
	%	2,3%	3,2%	1,3%	1,3%	
Jugularis vein	N	135	96	36	3	
	%	6,0%	8,3%	3,6%	3,8%	
Femoralis vein	N	10	4	6	0	
	%	0,4%	0,3%	0,6%	0,0%	
Tunneled catheter	N	223	173	47	3	
	%	10,0%	15,0%	4,7%	3,8%	
NEPHROPATHY	Balkan endem. nephrop. - Inc. patients (at day 1) - Total:	N	8	6	2	0
		%	1,8%	2,3%	1,3%	0,0%
		Median	69,0	72,5	69,5	-
	Balkan endem. nephrop. - Incid. patients (at day 1) - Male:	N	6	4	2	0
		%	75,0%	66,7%	100,0%	0,0%
	Balkan endem. nephrop. - Incid. patien. (at day 1) - Female:	N	2	2	0	0
		%	25,0%	33,3%	0,0%	0,0%
	Balkan endemic nephropathy - Age groups - Incident patients (at day 1):					
	(1) 0-19	N	0	0	0	0
		%	0,0%	0,0%	0,0%	0,0%
(2) 20-44	N	0	0	0	0	
	%	0,0%	0,0%	0,0%	0,0%	
(3) 45-64	N	0	0	0	0	
	%	0,0%	0,0%	0,0%	0,0%	
(4) 65-74	N	5	3	2	0	
	%	62,5%	50,0%	100,0%	0,0%	
(5) 75+	N	3	3	0	0	
	%	37,5%	50,0%	0,0%	0,0%	



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BALKAN ENDEMIC	Balkan endem. nephrop. - prevalent patients - Total:	N	173	38	129	6	
		%	6,4%	2,5%	11,9%	6,8%	
		Median	75,0	73,0	76,0	72,0	
		Mean	74,0	71,5	74,7	74,3	
	Balkan endem. nephrop. - prevalent patients - Male:	N	85	17	66	2	
		%	49,1%	44,7%	51,2%	33,3%	
	Balkan endem. nephrop. - prevalent patients - Female:	N	88	21	63	4	
		%	50,9%	55,3%	48,8%	66,7%	
	Balkan endemic nephropathy - Age groups - prevalent patients:						
	(1) 0-19	N	0	0	0	0	
	%	0,0%	0,0%	0,0%	0,0%		
(2) 20-44	N	1	1	0	0		
	%	0,6%	2,6%	0,0%	0,0%		
(3) 45-64	N	14	7	7	0		
	%	8,1%	18,4%	5,4%	0,0%		
(4) 65-74	N	70	13	53	4		
	%	40,5%	34,2%	41,1%	66,7%		
(5) 75+	N	88	17	69	2		
	%	50,9%	44,7%	53,5%	33,3%		
PATIENTS MORTALITY	Total number of patients per year →		N	3091	1761	1230	100
	Number of deaths and mortality rate in the total number of patients in the year:		%	388	228	148	12
			%	12,6%	12,9%	12,0%	12,0%
	Causes of death:						
	(1) Cardiac	N	182	100	79	3	
		%	46,9%	43,9%	53,4%	25,0%	
	(2) Vascular	N	71	39	27	5	
		%	18,3%	17,1%	18,2%	41,7%	
	(3) Infection	N	32	26	6	0	
		%	8,2%	11,4%	4,1%	0,0%	
	(4) Cancer	N	45	25	19	1	
		%	11,6%	11,0%	12,8%	8,3%	
	(5) Liver disease	N	5	1	2	2	
		%	1,3%	0,4%	1,4%	16,7%	
	(6) Gastro-intestinal	N	12	9	3	0	
		%	3,1%	3,9%	2,0%	0,0%	
	(7) Social/Psychological	N	3	2	1	0	
		%	0,8%	0,9%	0,7%	0,0%	
	(8) Accident	N	0	0	0	0	
		%	0,0%	0,0%	0,0%	0,0%	
(9) Miscellaneous	N	9	6	3	0		
	%	2,3%	2,6%	2,0%	0,0%		
(10) Unknown/unavailable	N	29	20	8	1		
	%	7,5%	8,8%	5,4%	8,3%		
Age groups of death patients:							
(1) 0-19	N	1	1	0	0		
	%	0,3%	0,4%	0,0%	0,0%		
(2) 20-44	N	16	9	7	0		
	%	4,1%	3,9%	4,7%	0,0%		
(3) 45-64	N	109	72	32	5		
	%	28,1%	31,6%	21,6%	41,7%		
(4) 65-74	N	116	74	40	2		
	%	29,9%	32,5%	27,0%	16,7%		
(5) 75+	N	145	72	69	4		
	%	37,4%	31,6%	46,6%	33,3%		
Gender of death patients:							
Male	N	226	133	86	7		
	%	58,2%	58,3%	58,1%	58,3%		
Female	N	162	95	62	5		
	%	41,8%	41,7%	41,9%	41,7%		

*1) BEN - Balkan endemic nephropathy