

Clinical Outcomes of Metabolic Syndrome - "fates" of respondents of the Project MONIKA SR in 2002-2007



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AIMS: To analyse from official health statistics selected indicators of health status of respondents with different risk profile (detected during the realization of the project in 2002), with emphasis on the respondents with metabolic syndrome (MS).

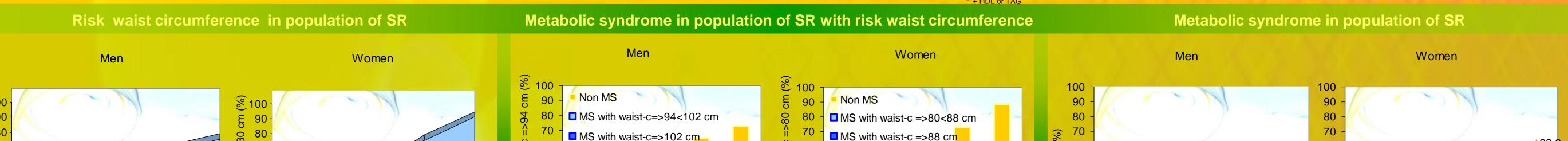
MATERIALS AND METHODS: Out of 6 847 respondents (aged 15–64 years of six model districts of Slovak Republic) 5 306 persons were identified for analysis. Hospitalizations of respondents were analysed during 5 years for diseases of the circulatory system (DCS) (ICD-10 codes I00–I99), malignant tumors (MT) and/or diabetes mellitus (DM) according to their different risk profile.

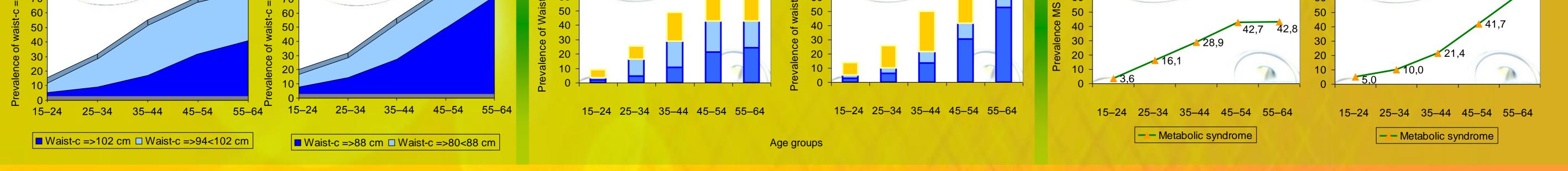
Criteria	Group 1	Grou	up 2	Group 3		
Chiena		А	В	А	В	
Waist-c=>80/94 cm (women / men)	+	-	+	-	+	
Waist-c< 80 _w / 94 _m cm	-	+	-	+	-	
BP => 130 and /or 85 Torr	+	+	+	-	-	
HDL < 1,29 _w / 1,04 _m mmol/l	+	±	-	±	± *	
TAG => 1,7 mmol/l	+	±	-	±	± *	
Sign	MS	2A	2B	3A	3B	
				* . 1		

The criteria of IDF (2005) were used for MS (without glycemia, which was examined only in 1 district). Distribution of respondents to 3 basic groups according to blood pressure (BP) and waist circumference (waist-c) presents appurtenant table.

Data analyzed in this presentation relate to respondents without personaly history of diabetes in 2002

Statistical criteria used: risk ratio of unfavourable risk profile 15 – 64 year group of respondents from randomized survey in 2002 (calculated on Slovak population).







Proportion of respondents hospitalized

for diseases of the circulatory system (DCS)

Proportion of respondents hospitalized for DCS Table 1

Non - diabetics							
Gender	MC	2		3			
	MS	2A	2B	3A	3B		
Men	every 9 th 🛉 (of 722)	14 th 🛉 (of 302)	6 th 🛉 (of 168)	36 th 🛉 (of 831)	13th 🛉 (of 169)		
Women	every 13th ‡ (of 944)	15th 🕴 (of 136)	8 th 🛊 (of 120)	50 th 🛊 (of 1214)	29 th 🛊 (of 503)		

Graph 1a Dominant risk factor in respondents hospitalized for DCS (%) Graph 1b Men (n=83) Women (n=75) 8,3 13,3 9,3 2,7 **40 48** 38.6 39,8

For DCS were hospitalized: • in group with MS every 9th man and 13th woman in group 3A every 36th man and 50th woman

• in group 3B even every 13th man and 29th woman Respondents of group 2B were hospitalized more frequently then with MS (because of the higher proportion of non-treated hypertension?; see graph 2b). Table 1 presents more detailed data.

Statistical evaluation of hospitalized respondents MS group versus 3A group

Statistically significant (p< 0,005) difference between the MS group and 3A was in disadvantage in MS by the hospitalized for:

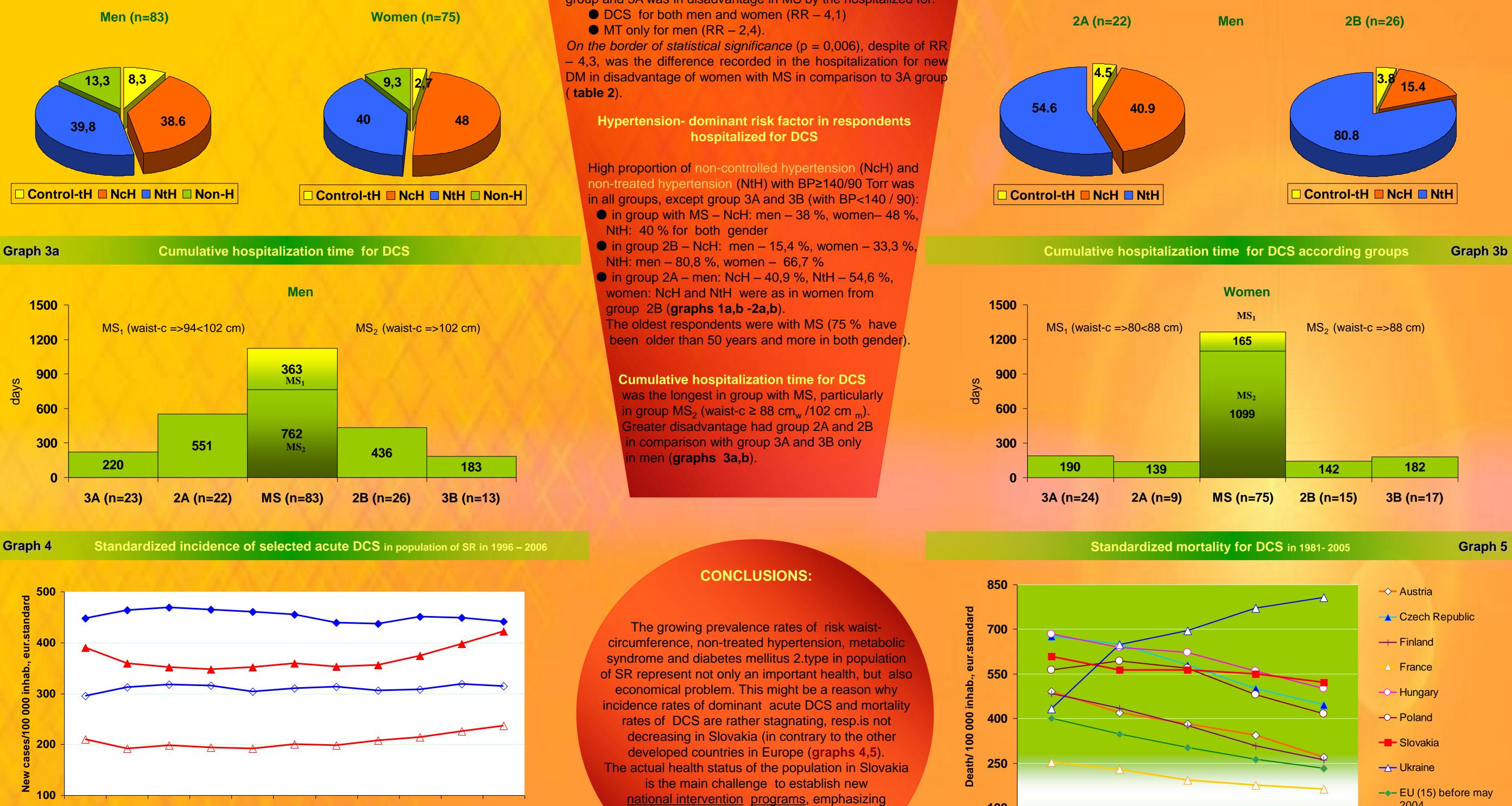
On the border of statistical significance (p = 0,006), despite of RR

hospitalized for DCS

Statistical evaluation - comparison MS with group 3A Table 2

Group	Condor	DCS		МТ		DM	
MS/3A	Gender	RR	p<0,005	RR	p<0,005	RR	p<0,005
	Men	4,1	+	2,4	+	1,1	-
	Women	4,1	+	1	-	4,3	p=0,006

Dominant risk factor in respondents hospitalized for DCS (%) Graph 2a Graph 2b



1996 1997 1998 1999 2000 2001 2002 2003 2004 2005

2006



1981-1985 1986-1990 1991-1995 1996-2000 2001-2005

Years

100



2004

\rightarrow women/stroke (I60–I64)

→ men/ stroke (160–164)

men/acute coronary syndrome (I20–I22) \rightarrow women/acute coronary syndrome (I20–I22)