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### The analysis of Health education programs for school- children held in primary and secondary schools in the period 2010-2020 in Nisava district

In accordance with the guidelines of the Health education program, it is carried out through lectures, workshops and campaigns. Coverage of school children by Health education programs, in the period 2010-2020. in elementary schools in the Nišava district, analyzing the submitted data, is with a growing trend. In 2010, Health education covered 27.7% of children/students (7937), in 2013 56.3% (15965), in 2017 47.9% (13067) and in 2020 71.8% (17918). In reports, some municipalities recorded achievements of over 100% (Gadžin Han 104.15 in 2010; Doljevac 109.3% in the same year; Ražanj 119.4% in 2020 and Gadžin Han 104.7% in the same year), which should be analyzed separately. These data refer to the total coverage of all Health education topics. In some cases, in certain municipalities, this shows children's participation in only one or two topics of Health education, and all other topics are left uncovered (Table No. 1).

**Table no. 1: Coverage of children/students with Health education in primary schools of the Nišava district in the period 2010-2020**

Municipality	2010			2013			2017			2020		
	No of students in municipality	No of parzicipants	%	No of students in municipality	No of parzicipants	%	No of students in municipality	No of parzicipants	%	No of students in municipality	No of parzicipants	%
Nis	20676	3300	16.0	19841	13400	67.5	19392	10751	55.4	18681	15784	84.4
Aleksinac	3936	1161	29.5	3911	400	10.22	3683	400	11.6	3155	440	14.4
Мерошина	1112	351	32.0	1078	525	48.7	978	296	30.3	767	285	37.1
Doljevac	1659	1813	109.3	1577	212	13.4	1487	439	30.2	1356	180	13.3
Ražanj	681	602	88.4	658	608	92.4	564	533	94.5	434	518	119.4
G Han	509	530	104.1	484	320	66.1	372	290	78.5	239	250	104.6
Svrljig	836	180	21.5	829	500	60.3	770	358	46.5	610	461	76.7
Nišavski okrug	29409	7937	27.0	28378	15965	56.3	27246	13067	47.9	25242	17918	71.8

Coverage of school children with Health education, in the period 2010-2020. in secondary schools in the Nišava district was shown for four schools in Niš, Aleksinac, Svrlijig and Doljevac, but data for the secondary school in Doljevac was not provided (it is about the Economic School of Niš, outside the headquarters). In 2010, 34.0% (4378) children/students were covered by Health education, in 2013 the coverage was higher, 56.8% (8520), in 2017 the coverage was at the level of coverage from 2013, so that in 2020 had growth again to 71.45 (9392) (Table no. 2). The reports on Health education, which are submitted to the Institute for Public Health Niš, do not include any qualitative reporting, any additional clarifications of the methodology, topics, clarifications of the data presented.

**Table no. 2: Coverage of students in health education in secondary schools of the Nišava district in the period 2010-2020**

Municipality	2010			2013			2017			2020		
	No of students in municipality	No of parzicipants	%	No of students in municipality	No of parzicipants	%	No of students in municipality	No of parzicipants	%	No of students in municipality	No of parzicipants	%
Niš	11183	3800	34.0	13227	8200	62.0	11380	4610	40.5	11379	8958	78.7
Aleksinac	1263	398	31.5	1307	200	15.3	1249	220	17.6	1358	295	21.7
Svrlijig	227	180	79.3	223	120	54.0	238	125	52.5	228	139	60.9
Doljevac	228	0	0	239	0	0	220	0	0	193	0	0
Nišavski okrug	12901	4378	34.0	14996	8520	56.8	13087	4955	37.8	13158	9392	71.4

Analyzing the method of work in the implementation of Health education in elementary schools, we found that in 2010 and 2013, lectures were more common in the overall Health education compared to workshops, while campaigns were represented in an insignificant number. In 2010, at the district level, lectures were represented in the total Health education with 61.8% (1372), workshops with 37.8% (840), and campaigns with only 0.4% (9). The ratio does not change significantly even during 2013, when Health education work is predominantly conducted through lectures, 69% (5114) and 30.8% through workshops. In 2017, workshops were represented by 85.7% (5380), and lectures by 13.4% (839). In 2020, workshops remain more prevalent as a form of Health education with 81.3% (5351), and campaigns are slightly represented during all the mentioned years, but are continuously implemented (Table no. 3).

**Table no. 3: Forms of work in health education in elementary schools in the Nišava district in the period 2010-2020. years**

Municipality	2010 year						2013 year						2017 year						2020 year					
	Lecture		Workshop		Campaign		Lecture		Workshop		Campaign		Lecture		Workshop		Campaign		Lecture		Workshop		Campaign	
	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%
Niš	980	53,8	840	46,2	0	0	4900	70,0	2100	30,0	0	0	770	12,7	5250	86,6	42	0,7	1036	16,9	5096	83,1	0	0
Aleksinac	68	100	0	0	0	0	64	100	0	0	0	0	0	0	0	0	0	0	88	100	0	0	0	0
Merošina	5	100	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	10	100	0	0	0	0
Doљevac	205	100	0	0	0	0	0	0	183	100	0	0	12	8,6	127	91,4	0	0	0	0	193	100	0	0
Ražanj	44	100	0	0	0	0	75	97,4	1	1,3	1	1,3	2	25,0	0	0	6	75,0	2	3,3	59	96,7	0	0
G Han	60	88,2	0	0	8	11,8	70	100	0	0	0	0	42	100	0	0	0	0	72	100	0	0	0	0
Svrlјig	10	91,0	0	0	1	9,0	5	71,4	0	0	2	28,6	13	54,2	3	12,5	8	33,3	13	54,2	3	12,5	8	33,3
<b>Nišavski okrug</b>	<b>1372</b>	<b>61,8</b>	<b>840</b>	<b>37,8</b>	<b>9</b>	<b>0,4</b>	<b>5114</b>	<b>69,0</b>	<b>2284</b>	<b>30,8</b>	<b>16</b>	<b>0,2</b>	<b>839</b>	<b>13,4</b>	<b>5380</b>	<b>85,7</b>	<b>56</b>	<b>0,9</b>	<b>1221</b>	<b>18,6</b>	<b>5351</b>	<b>81,3</b>	<b>8</b>	<b>0,1</b>

In secondary schools, the representation of lectures, workshops and campaigns, as a form of health education, is changing in the same way as in primary schools: in 2010, 79.0% of Health education takes place through lectures, and 21% through workshops (665). The ratio of these forms of work is similar in 2013, lectures are represented by 73.7% (4288). This ratio changes in 2017, when Health education takes place through workshops with 84.6% (2340), as well as in 2020 when workshops are represented by 85.1% (4416) and lectures by 18.6% (1221). Campaigns accompanying these lectures are held every year, predominantly in Niš, and less so in other municipalities of the Nišava district (Table no.45).

**Table No. 4: Forms of work in health education in secondary schools in the Nišava District in the period 2010-2020. years**

Municipality	2010 year						2013 year						2017 year						2020 year					
	Lecture		Workshop		Campaign		Lecture		Workshop		Campaign		Lecture		Workshop		Campaign		Lecture		Workshop		Campaign	
	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%
Niš	2400	78,3	665	21,7	0	0	4200	76,7	1350	24,3	0	0	348	12,6	2340	85,0	65,0	2,4	504	9,6	4416	86,3	195	3,8
Aleksinac	90	0	0	0	0	0	80	100	0	0	0	0	0	0	0	0	0	0	59	100	0	0	0	0
Svrljig	10	83,3	0	0	2	16,7	6	75,0	0	0	2	25,0	10	66,7	0	0	5	33,3	10	66,7	0	0	5	33,3
Doljevac	16	50,0	16	50,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Nišavski okrug</b>	<b>2516</b>	<b>78,7</b>	<b>681</b>	<b>21,3</b>	<b>0</b>	<b>0</b>	<b>4288</b>	<b>73,7</b>	<b>1533</b>	<b>26,3</b>	<b>0</b>	<b>0</b>	<b>358</b>	<b>12,9</b>	<b>2340</b>	<b>84,6</b>	<b>70</b>	<b>2,5</b>	<b>573</b>	<b>11,0</b>	<b>4416</b>	<b>85,1</b>	<b>200</b>	<b>3,6</b>

In primary and secondary schools of the Republic of Serbia and the Nišava district, Health education is carried out by health workers, health assistants and teachers. During all the analyzed years in the period 2010-2020, educators in primary and secondary schools were predominantly health professionals: in 2010, health professionals participated in Health education with 63.4% (26), in 2013 with 59.3% (19), therefore in 2020 they participated with 74.5% (35). Throughout the years, health assistants and teachers are far less present as educators for Health education: in 2010, only 6 teachers participated in Health education in the entire Nišava District (14.6% of the total number of lecturers); In 2013, 8 educators were hired (25.1%), 10 educators in 2017 (28.6%) and only 5 teachers/educators in 2020 (11.1%) (Table no. 5) .

**Table No. 5: Educators engaged in the implementation of health education in primary schools of the Nišava district in the period 2010-2020.**

Municipality	2010 year						2013 year						2017 year						2020 year					
	Health stuff		Health assistants		Teachers		Health stuff		Health assistants		Teachers		Health stuff		Health assistants		Teachers		Health stuff		Health assistants		Teachers	
	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%
Niš	10	71.4	4	28.6	0	0	5	62.5	3	37.5	0	0	7	77.8	2	22.2	0	0	10	83.3	2	16.7	0	0
Aleksinac	3	75.0	1	25.0	0	0	2	100	0	0	0	0	0	0	0	0	0	0	2	100	0	0	0	0
Merošina	1	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	100	0	0	0	0
Doljevac	4	100	0	0	0	0	1	100	0	0	0	0	4	100	0	0	0	0	6	100	0	0	0	0
Ražanj	5	71.4	0	0	2	28.6	6	100	0	0	0	0	2	66.7	1	33.3	0	0	4	33.3	3	25.0	5	41.7
G Han	1	33.3	2	66.7	0	0	3	100	0	0	0	0	4	66.7	2	33.3	0	0	4	66.7	2	33.3	0	0
Svrljig	2	25.0	2	25.0	4	50.0	2	16.7	2	16.7	8	66.7	2	15.4	1	7.7	10	77.0	0	0	0	0	0	0
<b>Nišavski okrug</b>	<b>26</b>	<b>63.4</b>	<b>9</b>	<b>22.0</b>	<b>6</b>	<b>14.6</b>	<b>19</b>	<b>59.3</b>	<b>5</b>	<b>15.6</b>	<b>8</b>	<b>25.1</b>	<b>19</b>	<b>54.3</b>	<b>6</b>	<b>17.2</b>	<b>10</b>	<b>28.6</b>	<b>35</b>	<b>74.5</b>	<b>7</b>	<b>14.9</b>	<b>5</b>	<b>11.1</b>

In secondary schools, this difference regarding the hiring of health professionals, health assistants and teachers is even more obvious: in 2010, 6 teachers/educational workers (22.2%) were hired in the entire Nišava district, in 2017 no participation was recorded either one teacher, and in 2020, 2 teachers/educators were hired (6.7%). This type of involvement is negligible (Table no. 6).



**Table No. 6: Educators engaged in the implementation of health education in secondary schools of the Nišava district in the period 2010-2020. years.**

Municipality	2010 year						2013 year						2017 year						2020 year					
	Health stuff		Health assistants		Teachers		Health stuff		Health assistants		Teachers		Health stuff		Health assistants		Teachers		Health stuff		Health assistants		Teachers	
	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%	Br	%
Niš	10	71.4	4	28.6	0	0	5	62.5	3	37.5	0	0	7	77.8	2	22.2	0	0	15	88.2	2	11.8	0	0
Aleksinac	2	66.7	1	33.3	0	0	2	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Svrljig	2	25.0	2	25.0	4	50.0	2	25.0	2	25.0	4	50.0	2	66.7	1	33.3	0	0	3	42.8	2	28.6	2	28.6
Doljevac	3	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Nišavski okrug</b>	<b>17</b>	<b>70.8</b>	<b>7</b>	<b>29.1</b>	<b>6</b>	<b>22.2</b>	<b>19</b>	<b>67.9</b>	<b>5</b>	<b>17.9</b>	<b>4</b>	<b>14.2</b>	<b>9</b>	<b>81.8</b>	<b>3</b>	<b>18.2</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>80.0</b>	<b>4</b>	<b>13.3</b>	<b>2</b>	<b>6.7</b>

Topics covered in Health education in elementary schools, and in relation to which reports are made by municipality, are: Health; Caring for the body; Oral and dental health; Nutrition; Physical activity; Safe behavior; Smoking tobacco; Alcoholism; Drug addiction; AIDS; Reproductive health; Communication; Correct use of health services; Environmental Protection. Analyzing the coverage of children/students in primary schools of the Nišava district in terms of the coverage of lectures and workshops on the aforementioned topics, it is concluded that in 2010 the most represented topics in Health education were the following topics: Health; Physical activity; Alcoholism; Drug addiction; AIDS. In 2013, the most represented topics are: Health; Oral and dental health; Nutrition; Physical activity; Smoking tobacco. In 2017, the topics that have the greatest coverage of children/students in elementary schools are: Caring for the body; Oral and dental health; Nutrition; Physical activity; Smoking tobacco. In 2020, the most popular topics are: Oral and dental health; Nutrition; Physical activity; AIDS and tobacco smoking (Table no. 7).

**Table No. 7: Representation of topics from health education in primary schools in the period 2010-2020.**

Topic	2010 year		2013 year		2017 year		2020 year	
	Schools	No of children	Schools	No of children	Schools	No of children	Schools	No of children
<b>Health</b>	49	4213	94	14420	51	10843	62	16025
<b>Body care</b>	43	3930	46	13268	51	11236	57	15945
<b>Dental care</b>	49	3435	93	15392	53	11463	68	16913
<b>Nutrition</b>	78	3323	95	15062	51	11104	62	16677
<b>Physical activity</b>	49	4189	91	14940	29	11363	36	16619
<b>Safe behavior</b>	36	3420	39	13460	28	11049	34	15794
<b>Smoking</b>	75	3870	44	13932	31	11574	52	16733
<b>Alcoholism</b>	74	4170	44	13624	29	10996	46	16451
<b>Drug addiction</b>	69	4556	43	13621	29	10995	46	16526
<b>AIDS</b>	68	4145	44	13695	30	11053	43	16550
<b>Reproductive health</b>	58	3890	40	13421	29	10975	36	16018
<b>Communication</b>	57	3750	40	13455	28	10957	35	16041
<b>Proper use of health services</b>	35	3300	39	13410	27	10761	34	15811
<b>Environmental Protection</b>	38	3420	40	13430	28	10983	35	16008

*The most common topics in health education are marked*

The most common topics in secondary schools of the Nišava district are: diseases of addiction (smoking, alcoholism, drug addiction), health in general, nutrition and AIDS, and during the years shown, there is no significant difference in the topicality of the topics (Table no. 9).

**Table no. 8: Representation of topics from health education in secondary schools in the period 2010-2020.**

Topic	2010 year		2013 year		2017 year		2020 year	
	Schools	No of children	Schools	No of children	Schools	No of children	Schools	No of children
<b>Health</b>	22	3970	20	8200	10	4610	19	8958
<b>Body care</b>	22	4180			10	4610	22	9108
<b>Dental health</b>	22	4060			10	4610	19	8958
<b>Nutrition</b>	22	4150	22	8310	10	4610	22	8989
<b>Physical activity</b>			22	8200	10	4610	22	8978
<b>Safe behavior</b>	22	3800	22	8420	10	4610	19	8958
<b>Smoking</b>	22	3150	22	8290	10	4610	22	9350
<b>Alcoholism</b>					10	4610	22	9350
<b>Drug addiction</b>			22	8460	10	4610	22	9350
<b>AIDS</b>	22	4380	22	8250	10	4610	22	9340
<b>Reproductive health</b>			20	8200	10	4610	19	8958
<b>Communication</b>					10	4610	19	8958
<b>Proper use of health services</b>			20	8200	10	4610	19	8958
<b>Environmental Protection</b>	22	3012	20	8200	10	4610	22	9100

*The most common topics in health education are marked*