



CERVICAL CANCER: A PUBLIC HEALTH ISSUE IN ROMANIA

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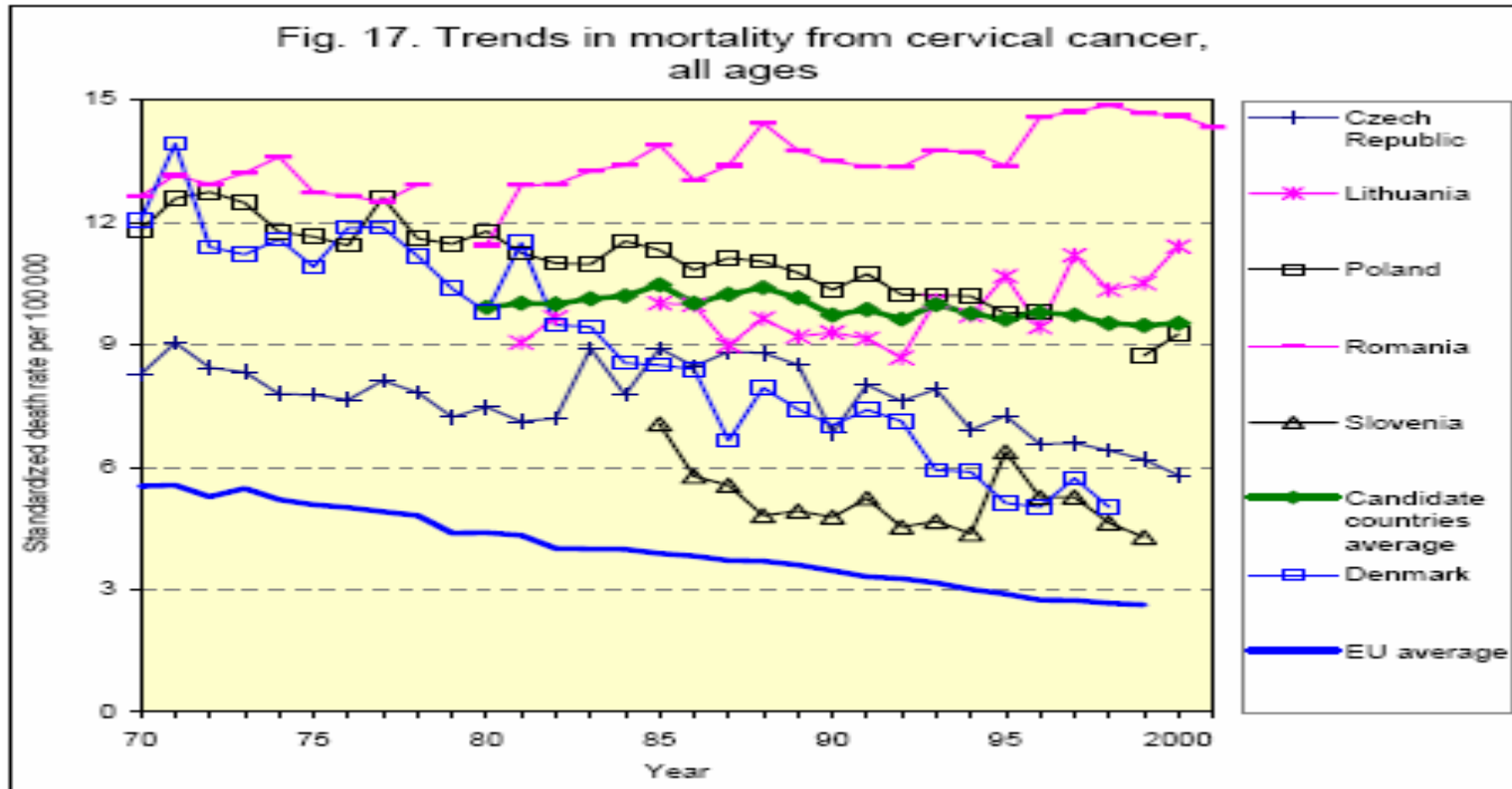
University of Medicine and Pharmacy of Bucharest, ROMANIA



MOTIVATION

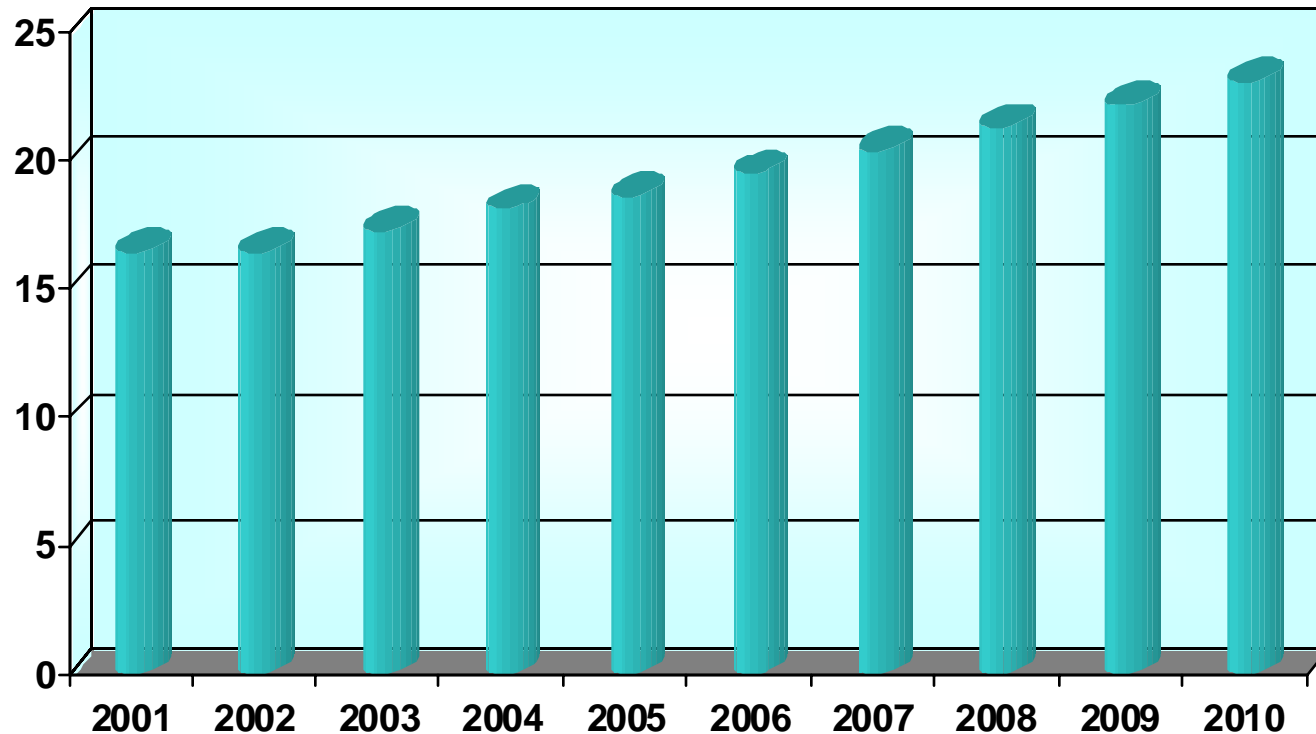
In Romania cervical cancer represents the most common cause of death for women at fertile age and registers the highest rate of mortality in Europe.

MOTIVATION



WHO, 2002 - Health Status Overview for Countries of Central and Eastern Europe that are Candidates for Accession to the European Union

MOTIVATION



Prognosis of cervical cancer incidence (per 100,000 women) in Romania (linear regression method) – data from the Centre of Medical Statistics and Documentation



SUBJECTS AND METHODS

- 2005-2006 – a national study on the sexual education and family planning;
- 1902 subjects;
- two questionnaires (with 90 items for men and women and other 15 items for women) referring to:
 - sexual activity, sexual education;
 - family planning, abortion, number of children;
 - STD, health risky behaviour, domestic violence;
 - ante and post-partum care, new-born care, precocious detection of cervical and breast cancer (items for women);
- 848 women over the age of 15, who started the sexual life, equally distributed by age groups, instruction level and residence region – eight cities, capitals of the eight traditional historical geographical regions of the country.

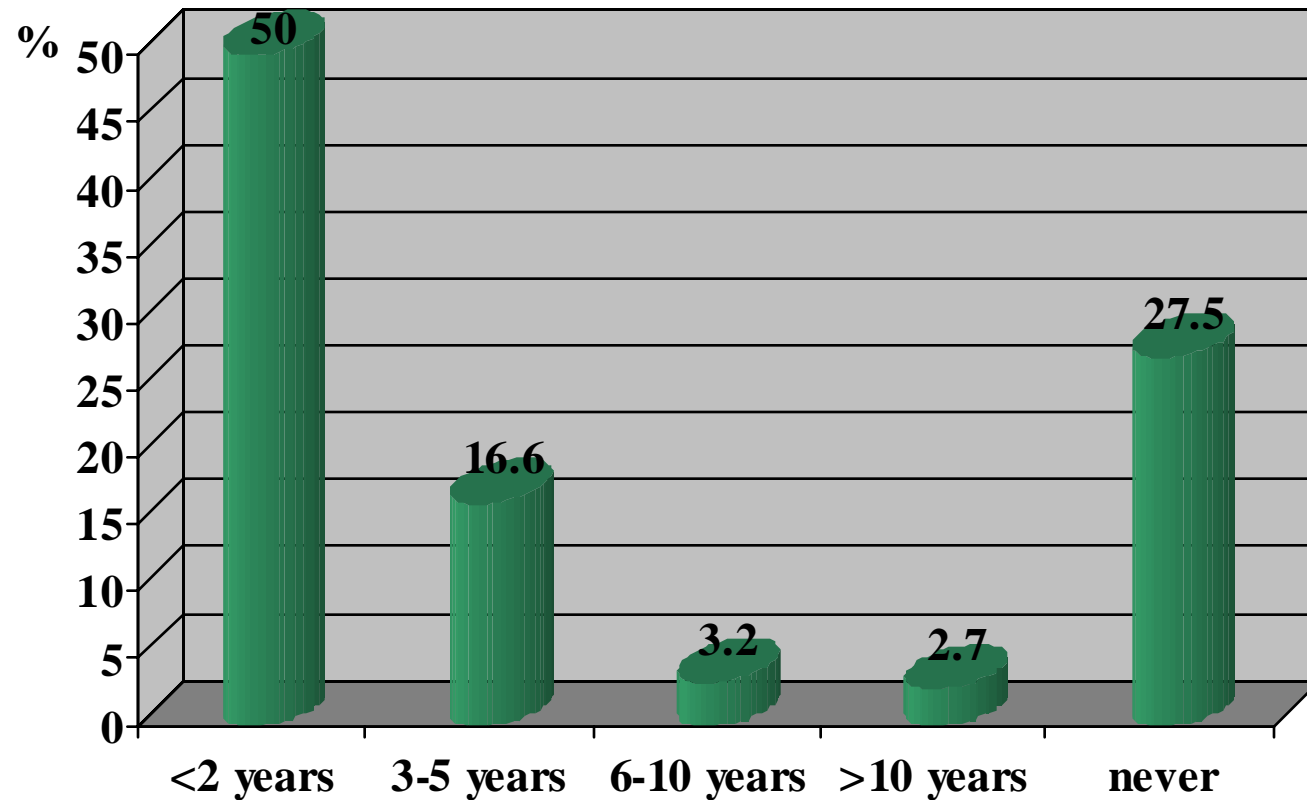
SUBJECTS AND METHODS



SPSS and Latent Gold :

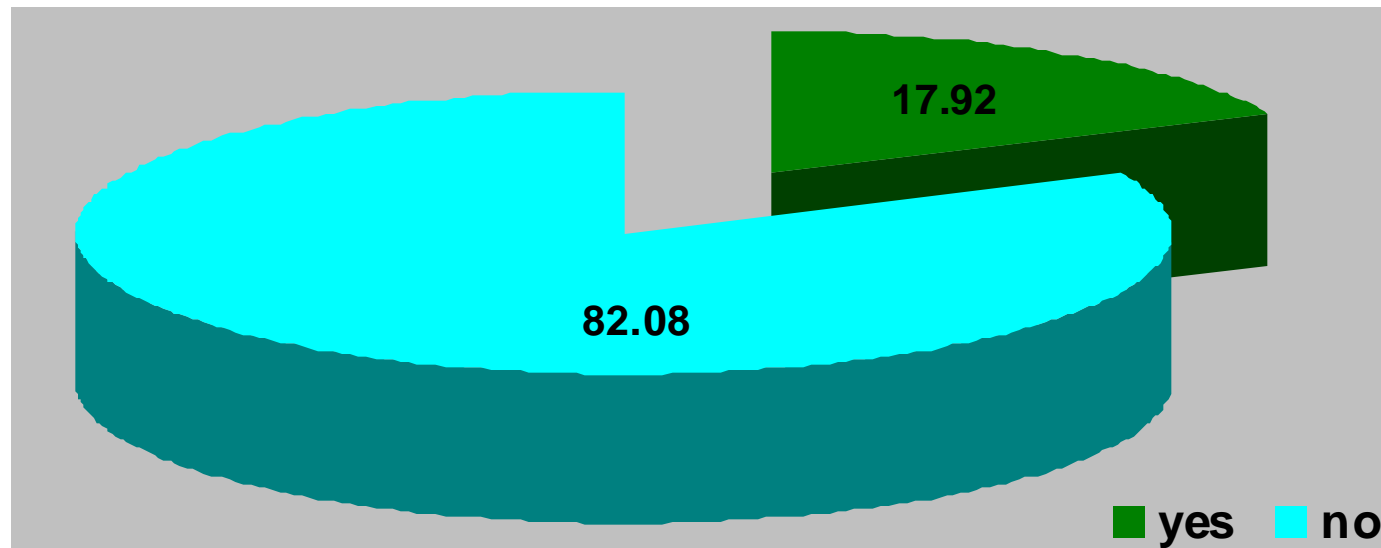
- classification tree analysis;
- latent class analysis;
- binary logistic regression analysis.

RESULTS (I)



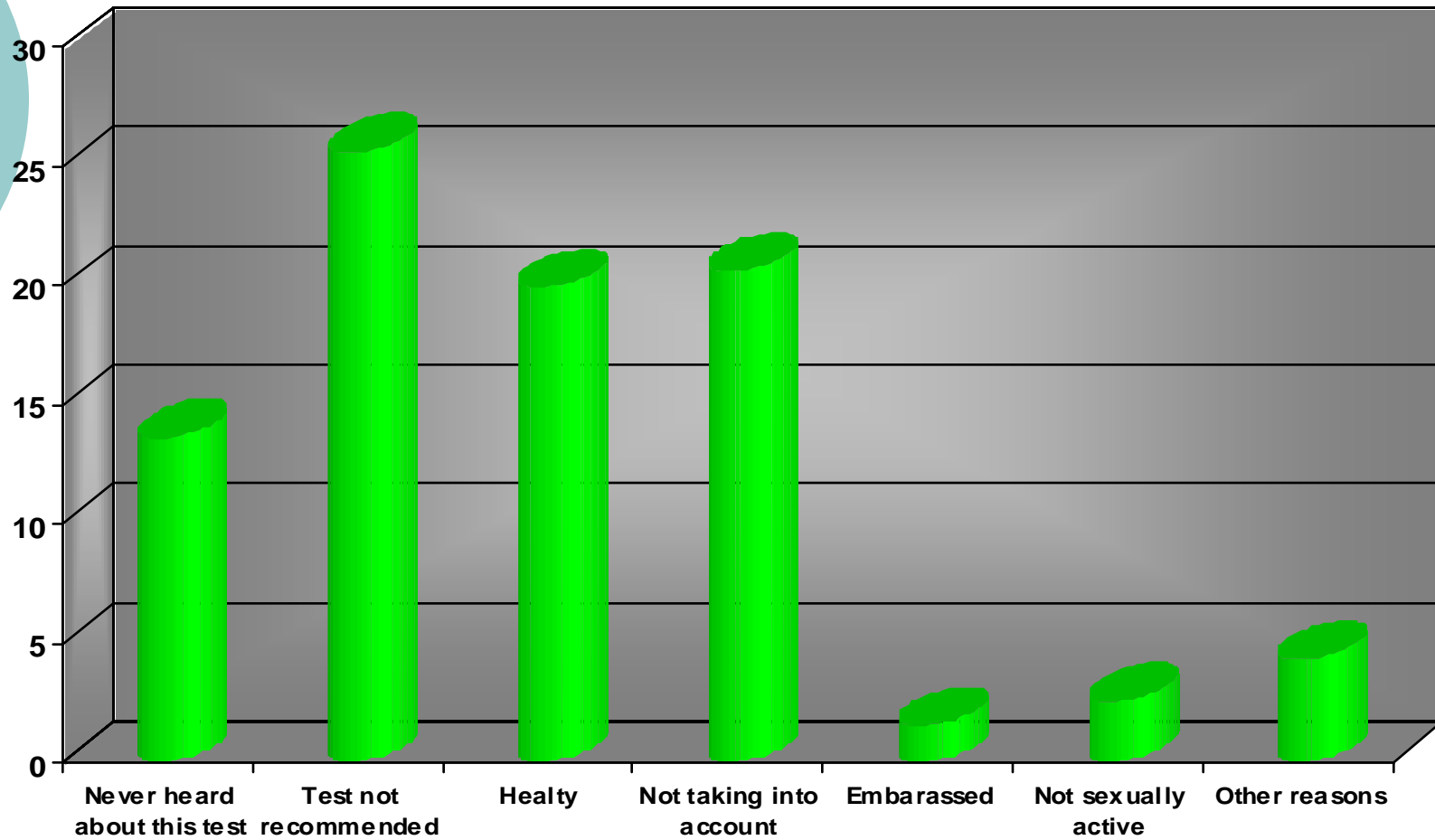
Statistical distribution (%) of women according to the time of the last gynaecologic exam

RESULTS (II)



Statistical distribution of women (%)
as a function of taking a PAP test

RESULTS (III)



Reasons women have never taken a PAP test

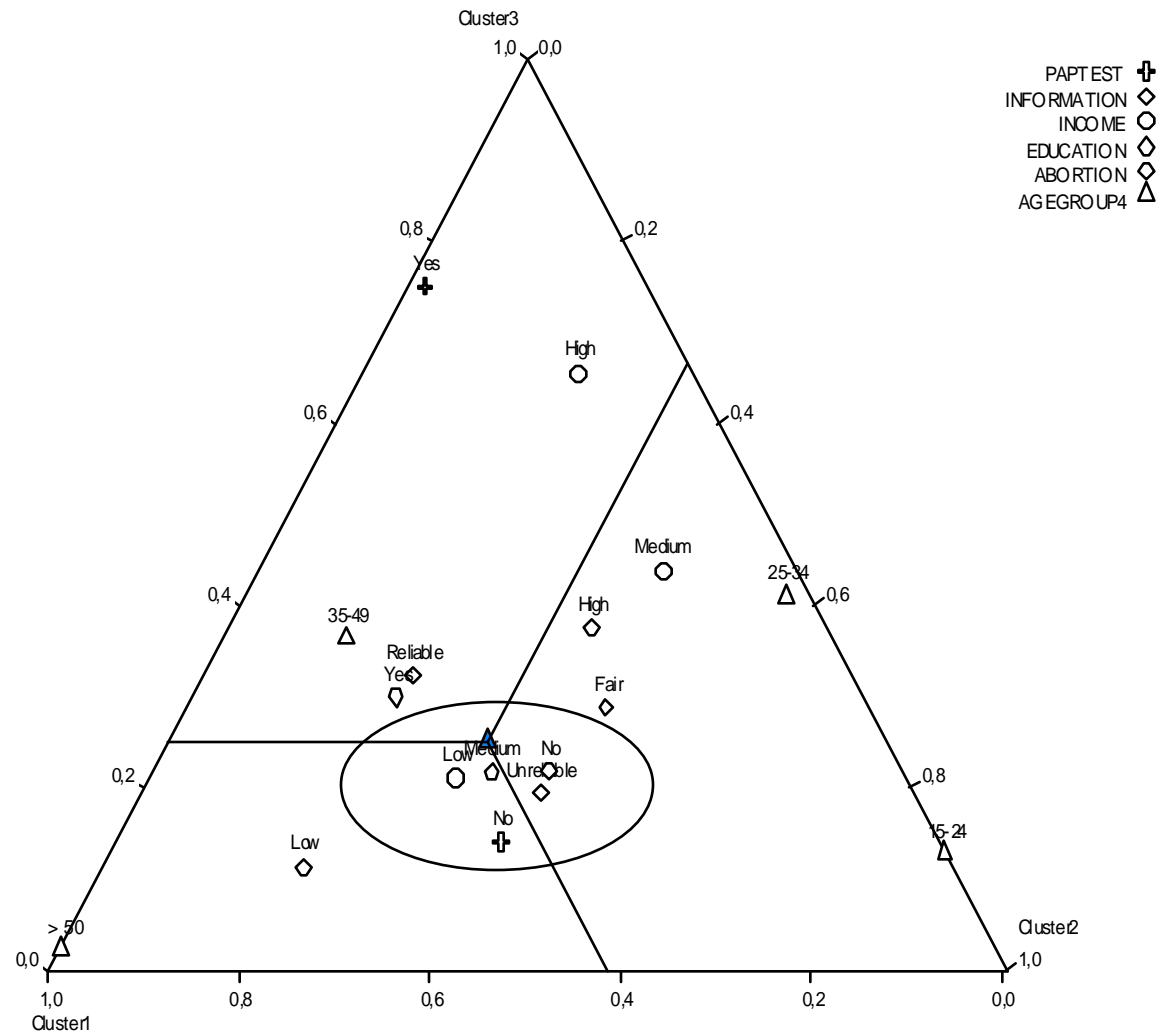
RESULTS (IV)

<i>Variables, labels and values</i>		<i>Count</i>	<i>%</i>
PAPTEST	<i>No</i>	696	82.08%
PAP Test history	<i>Yes</i>	152	17.92%
INFORMATION	<i>Unreliable</i>	471	55.67%
Information sources	<i>Fair</i>	14	1.65%
regarding sexual health	<i>Reliable</i>	361	42.67%
INCOME	<i>Low</i>	711	83.84%
Income level	<i>Medium</i>	128	15.09%
	<i>High</i>	9	1.06%
EDUCATION	<i>Low</i>	176	20.75%
Education level	<i>Medium</i>	379	44.69%
	<i>High</i>	293	34.55%
ABORTION	<i>No</i>	501	59.08%
Abortion history	<i>Yes</i>	347	40.92%
AGE GROUP	<i>15-24</i>	129	15.21%
Age group (4 groups)	<i>25-34</i>	241	28.42%
	<i>35-49</i>	254	29.95%
	<i>> 50</i>	224	26.42%

Factors which influence women decision regarding the PAP test

RESULTS (V)

Latent class analysis



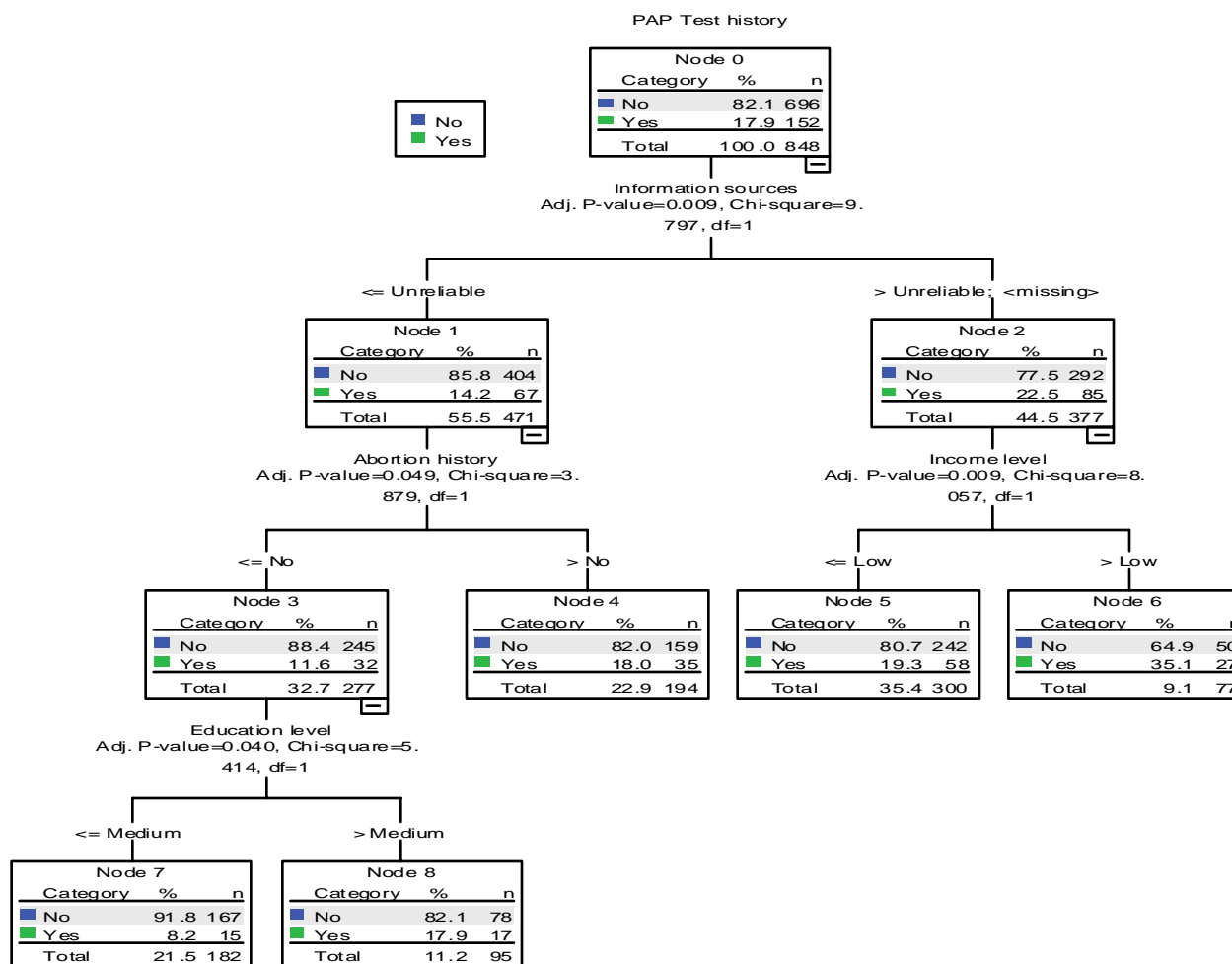
RESULTS (VI)

Binary logistic regression analysis

Variables	B	S.E	Wald	df	Sig.	Exp(B)	95.0% C.I. for EXP(B)	
							Lower	Upper
INFORMATION			7.042	2	.030			
INFORMATION(1)	.459	.691	.442	1	.506	1.583	.409	6.127
INFORMATION(2)	.490	.186	6.942	1	.008	1.632	1.134	2.348
INCOME			3.997	2	.136			
INCOME(1)	.306	.239	1.649	1	.199	1.358	.851	2.168
INCOME(2)	1.147	.702	2.673	1	.102	3.150	.796	12.467
ABORTION(1)	.390	.184	4.495	1	.034	1.477	1.030	2.120
EDUCATION			5.687	2	.058			
EDUCATION(1)	.365	.273	1.784	1	.182	1.441	.843	2.461
EDUCATION(2)	.653	.281	5.390	1	.020	1.922	1.107	3.335
Constant	-2.413	.268	80.798	1	.000	.090		

RESULTS (VII)

Classification tree analysis





CONCLUSIONS

- most probably, the high cervical cancer incidence and mortality are due to the women non-participation in screening programmes for early cancer detection;
- their information and education in order to participate in these programmes is urgently necessary.