

Survey on completeness and quality of vital statistics,

Georgia

PROJECT PARTICIPANTS:

- ☞ *Centre for Medical Statistics and Information under the Ministry of Labour, Health and Social Affairs (CMSI)*
 - ☞ *Maternal and Child Health Department, Ministry of Labour, Health and Social Affairs*
 - ☞ *State Department for Statistics of Georgia (SSD)*
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Year	Total number of the population		Total number of live births		Total number of infant deaths	
	SSD (hundred)	Expert (hundred)	SSD	CMSI	SSD	CMSI
1997	5,388.2	4,180.9	52,000	52,287	849	1,254
1998	5,387.9	4,130.0	46,800	49,588	710	1,054
1999	5,100.7	4,090.7	40,778	46,827	713	1,094

REGISTRATION OF BIRTHS AND DEATHS

***CENTRE FOR MEDICAL
STATISTICS***

***DEPARTMENT FOR
STATE STATISTICS***

***REGIONAL
PUBLIC HEALTH
CENTRE***

***CIVIL
REGISTRATION
BUREAU***

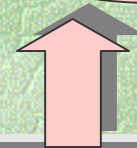
***DISTRICT
PUBLIC HEALTH
CENTRE***

FAMILY

***STATISTICAL
REPORTS***

***MEDICAL
CERTIFICATE***

MEDICAL FACILITY



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PROBLEM DESCRIPTION:

- ☞ Incomplete and imperfect death, live birth and still birth registration;
- ☞ The lack of possibility to evaluate and project demographic situation and related social and economic problems and health status of the population;
- ☞ Errors committed on coding of main cause of death;
- ☞ The invalid definitions of main cause of death made by a physician filling a Medical Certificate of Death.

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THREE COMPONENTS OF THE SURVEY:

- ☛ Study of completeness of registration of births and deaths in medical facilities and civil registration bureaus (CRB);
- ☛ Consistency check of the main cause of death in the Medical certificate of death with the records in the medical history of the deceased patient;
- ☛ Quality control of coding of the main cause of death.

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***REGISTRATION OF
BIRTHS AND DEATHS***

REGISTRATION OF BIRTHS AND DEATHS

SELECTION OF THE SURVEY POINTS:



REGISTRATION OF BIRTHS AND DEATHS

METHOD OF SURVEY:

For examination Medical Histories of the deceased patients were withdrawn from archives, and appropriate records, quality of filling of Medical Certificates of death, consistency of the diagnosis in the Medical History and the main cause of death in the Medical Certificate have been reviewed. Lists of deceased patients registered by Medical Facilities have been reconciled with the lists of deaths in the CRBs.

REGISTRATION OF BIRTHS AND DEATHS

SURVEY OUTCOMES:

1,439 cases of deaths and **5,486** cases of births have been covered during survey.

TBILISI

	CMSI	Medical care Facilities	CRB
Number of live births	1005	1005	1005
Number of still births	53	53	53
Number of infant deaths	36	36	36
Number of maternal deaths	3	3	0
Number of home deaths (outpatient)	262	262	262
Number of hospital deaths	121	121	86

REGISTRATION OF BIRTHS AND DEATHS

Marneuli

	CMSI	Medical care Facilities	CRB
Number of live births	751	751	321
Number of still births	20	19	20
Number of infant deaths	6	6	6
Number of maternal deaths	1	1	0
Number of home deaths (outpatient)	0	80	79
Number of hospital deaths	0	6	4
	15	15	1

REGISTRATION OF BIRTHS AND DEATHS

Mtskheta

	CMSI	Medical care Facilities	CRB
Number of live births	515	515	515
Number of still births	16	16	0
Number of infant deaths	2	2	1
Number of maternal deaths	1	1	0
Number of home deaths (outpatient)	82	82	41
Number of hospital deaths	0	2	2
	1	1	1

REGISTRATION OF BIRTHS AND DEATHS

Gori

	CMSI	Medical care Facilities	CRB
Number of live births	1569	1569	1060
Number of still births	25	25	28
Number of infant deaths	6	6	6
Number of maternal deaths	0	0	0
Number of home deaths (outpatient)	0	0	0
Number of hospital deaths	68	68	34

Tskhinvali

111 live births and **1** still birth

REGISTRATION OF BIRTHS AND DEATHS

<u>Total</u>	CMSI	Health Care Facilities	CRB	Under Registration (per cent)
Number of live births	5486	5486	4294	21.7
Number of still births	165	113	133	19.4
Number of infant deaths	80	50	66	17.5
Number of maternal deaths	6	5	0	100
Number of home deaths (outpatient)	344	594	546	8.1
Number of home infant deaths (outpatient)	13	24	9	62,5
Number of hospital deaths	273	273	190	30.4
Number of hospital infant death	54	54	41	24.1

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***Consistency check of the main
cause of death in the medical
certificate of death with the
records in the medical history of
the deceased patient***

Consistency check of the main causes of death

For study was used the following documents:

- ☞ **201** Medical certificates of death;
- ☞ **166** Medical histories of deceased (82.6%).

Consistency check of the main causes of death

MEDICAL FACILITY	TOTAL NUMBER OF MEDICAL DEATH CERTIFICATES	TOTAL NUMBER OF MEDICAL HISTORIES	TOTAL NUMBER OF CASES WITH BOTH DOCUMENTS FOUND	DISCREPANCY RATE
MTSKHETA OUTPATIENT AND INPATIENT CLINICS	34	15	5 (14,7%)	3 OUT OF 5 (60%)
TBILISI HOSPITAL #4	87	57	34 (39,1%)	20 OUT OF 34 (58,8%)
MARNEULI DISTRICT HOSPITAL	15	8	5 (33,3%)	0
MARNEULI OUTPATIENT CLINICS	65	86	52 (80%)	10 OUT OF 52 (19.2%)
TOTAL	201	166	96 (47,8%)	33 OUT OF 96 (34,3%)

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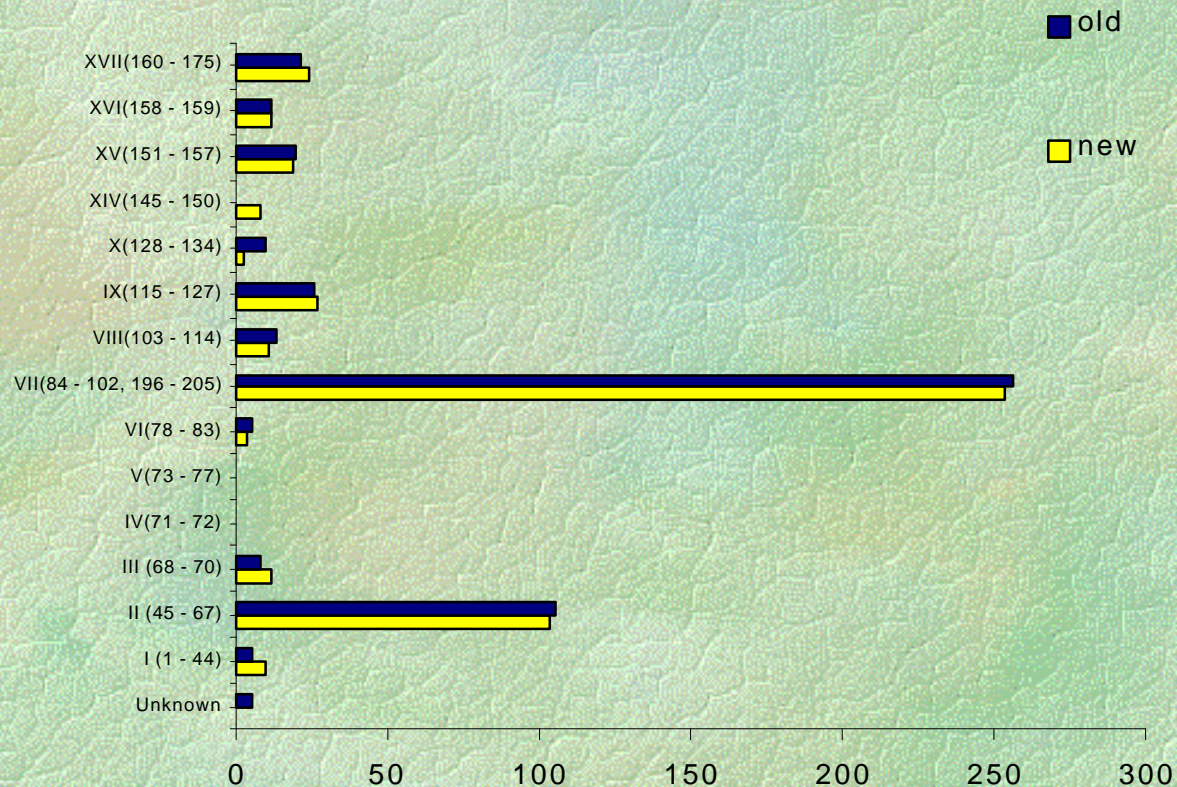
***Quality control of coding of
the main cause of death***

Quality control of coding of the main cause of death

- ☞ *36.8% of all checked records covering 1996 - 1997 and 24.2% of records covering 1998, codes of the main cause of death contained an error;*
- ☞ *Mortality structure according to the main classes of diseases differs insignificantly when correct codes are used; but the situation within the classes is quite different.*

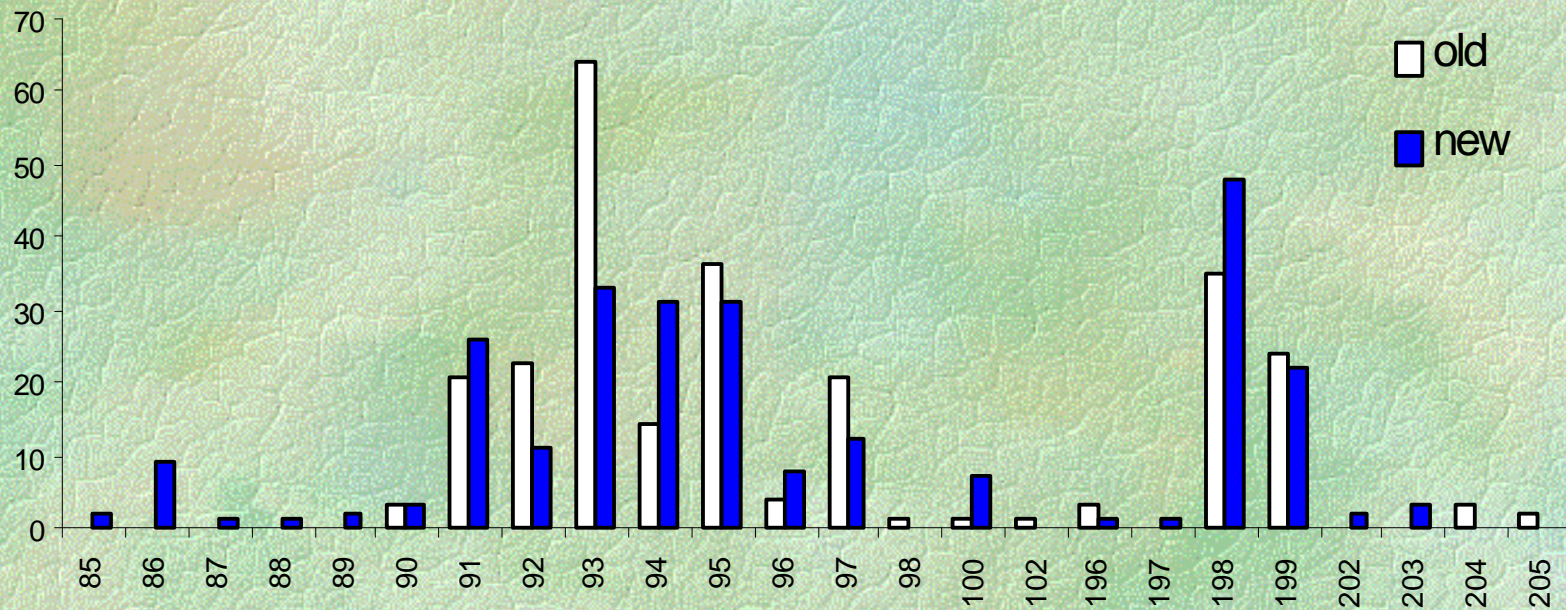
Quality control of coding of the main cause of death

Mortality Structure According to the Main Groups of Diseases (existed and correct codes)



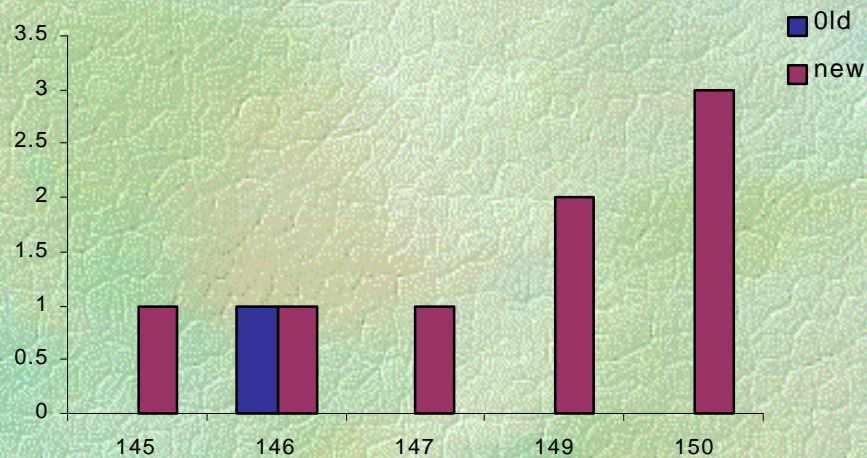
Quality control of coding of the main cause of death

CORRECT AND EXISTED CODES IN THE GROUP OF DISEASES OF CIRCULATORY SYSTEM

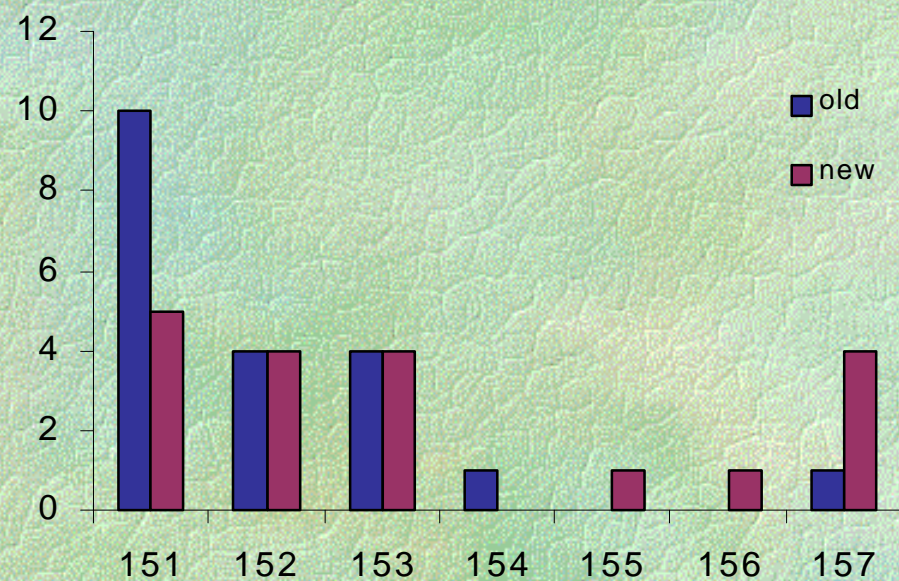


Quality control of coding of the main cause of death

CORRECT AND EXISTED CODES IN THE GROUP OF CONGENITAL MALFORMATIONS



CORRECT AND EXISTED CODES IN THE GROUP OF CONDITIONS ORIGINATING IN THE PERINATAL PERIOD



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RECOMMENDATIONS:

- ☛ To consider information, submitted by Medical Facilities registering births and deaths, verified by the manager's signature and sealed by the stamp of the facilities, as the main source of the official vital statistics;
- ☛ To issue an order of the MoLHSA obliging medical facilities to issue medical birth and death certificates and present a copy of the document to the State statistical offices at the district level, independently of the wish of relatives to register the fact;
- ☛ To use a capacity of the CMSI for quality control of the collected information;
- ☛ To modify medical death and birth certificates according to the demand on information;
- ☛ To arrange training of the proper personnel of medical facilities, SSD and CRBs.

*To obtain actual picture of the
social and economic situation in
Georgia, a Census must be
arranged. This needs
approximately \$6 million to be
done*