

## Single Integrated Metadata Structure (SIMS)

**Country:** Greece

**Compiling agency:** ELSTAT

**Domain name:** Survey on In-patient Hospital Care

### ELSTAT metadata

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#### 1. Contact

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## 2. Introduction

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### 2.1 Introduction

The survey on in-patient hospital care is conducted in all the public hospitals and private clinics with the aim of exploring epidemiologically the morbidity of population at the level of the country and at the level of the Region (NUTS2).

## 3. Metadata update

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### 3.1 Metadata last certified

February 2015

### 3.2 Metadata last posted

February 2015

### 3.3 Metadata last update

February 2015

## 4. Statistical presentation

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### 4.1 Data description

The survey covers all the public hospitals, the Legal Entities under Private or Public Law and the private hospitals that were in operation until December 31 of the reference year of the collected data and it compiles data concerning the number of patients discharged, focusing mainly on their demographic characteristics and the disease on account of which they were hospitalized (providing they were hospitalised for at least one day in the above mentioned hospitals). Once collected, a sample of the collected data is processed, with the only exception of data from the neuro-psychiatric hospitals and from the Special Infectious Diseases Hospital which are processed on a census basis.

### 4.2 Classification system

The diseases are classified in accordance with the International Classification of diseases, injuries and causes of death - ICD-9 of the World Health Organization (WHO).

The patient's occupation is classified in accordance with the national classification STEP92 (similar classification with the classification of the International Labour Organization (ISCO-8) and of the European Union (ISCO-COM 8)).

The codification of the remaining variables (legal form, speciality of the hospital) is in compliance with corresponding codes laid down by ELSTAT.

Geographical classification is in accordance with NUTS 3.

### 4.3 Sector coverage

Public health.

### 4.4 Statistical concepts and definitions

The surveyed variables are the following:

1. Specialty of the Hospital, 2. Legal form of the hospitals 3. Patients discharged by sex 4. Patient's place of usual residence 5. Place of Birth 6. Patient's age 7. Marital status 8. Patient's occupation 9. Date of hospital admission 10. Date of hospital discharge 11. Days of hospital treatment 12. The agency bearing the expenditure 13. The bed categorization 14. The category of the disease 15. The number of surgeries performed 16. The hospital treatment outcome.

#### Definitions

- "Hospital" shall mean a health care institution where health care treatment is provided to patients by specialised medical or non-medical personnel.

Hospitals, depending on their legal form, are classified as Legal Entities under Public Law, Legal Entities under Private Law, and private hospitals. Depending on the medical cases hospitalized, hospitals are distinguished into General, Mixed and Specialised (depending on the Medical Specialties: to cancer, dermatological, cardiological, infectious diseases, gynaecological, psychiatric, orthopaedics, ophthalmologic, pathological, paediatric, tuberculosis hospitals, surgical and otolaryngology hospitals.)

- "Patient" shall mean the person who has been hospitalized for at least one day in the above mentioned hospitals. The survey refers to patients discharged from hospitals and their personal data are recorded every month, once the patient is discharged.

- "Category of the disease" shall mean the main disease diagnosed for which the patient was hospitalised, irrespectively whether another less important disease was diagnosed.

- "Agency which is bearing the expenditure" shall mean the agency disbursing the payment, i.e. the social security fund or the patient himself.

- "Number of surgeries"

- "Outcome of the treatment"

The result of the hospitalisation might be a full recovery, a health improvement, a stable condition, a worsening of patients' condition, or death.

- "Days of hospitalization" shall mean the days during which the patient was hospitalized starting from the day the patient was admitted to hospital until the day when the patient was discharged, without counting the day of the discharge.

#### 4.5 Statistical unit

The public hospital, the hospital classified as Legal Entity under Public and Private Law, as well as the private hospital and the patient hospitalized.

#### 4.6 Statistical population

Patients hospitalized for at least for one day in the above mentioned hospitals.

#### 4.7 Reference area

Regional Unit (previously Department – NUTS 3)

#### 4.8 Time coverage

Annual

#### 4.9 Base period

Not applicable

### 5. Unit of measure

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The number of patients

### 6. Reference period

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One year.

### 7. Institutional mandate

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#### 7.1 Legal acts and other agreements

The legal framework concerning the organization and operation of ELSTAT is as follows:

Law 3832/2010 (Government Gazette No 38, Issue A): *"Hellenic Statistical System Establishment of*

*the Hellenic Statistical Authority (ELSTAT) as an Independent Authority", as amended by article 90 paragraphs 8 and 9 of the Law 3842/2010 (Government Gazette No 58, Issue A): "Restoration of fiscal justice, confrontation of tax evasion and other provisions", by article 10 of the Law 3899/2010 (Government Gazette No 212, Issue A): "Urgent measures for the implementation of the assistance program of the Greek Economy", by article 45 of the Law 3943/2011 (Government Gazette No 66, Issue A): "Combating tax evasion, staffing of auditing services and other provisions falling within the competence of the Ministry of Finance", by article 22 paragraph 1 of the Law 3965/2011 (Government Gazette No 113, Issue A): "Operations Reform of the Consignment and Loan Fund, Public Debt Management Agency, Public Enterprises and Government bodies, the establishment of the General Secretary of Public Property and other provisions", by article first of the Law 4047/2012 (Government Gazette No 31, Issue A): "Ratification of the Act of Legislative Content "Very urgent measures for the implementation of the Medium-term Fiscal Strategy 2012-2015 and of the State Budget for 2011" and of the Act of Legislative Content "Regulation of very urgent issues for the implementation of law 4024/2011 "Pension provisions, uniform pay scale - grading system, labour reserve and other provisions for the implementation of the Medium-term Fiscal Strategy Framework 2012-2015" and of issues falling within the competence of the Ministries of Administrative Reform and E-Governance, Interior, Finance, Environment, Energy and Climate Change, and of Education, Lifelong Learning and Religious Affairs and related to the implementation of the Medium-term Fiscal Strategy Framework 2012-2015" and other provisions", by article 323 of the Law 4072/2012 (Government Gazette No 86, Issue A): "Improvement of the business environment New corporate form - Trade Marks - Realtors - Regulating maritime, port and fishing matters and other provisions" and by article 7 paragraph 1 of the Act of Legislative Content dated 18/11/2012 (Government Gazette No 228, Issue A): "Financial rules and other provisions", by Article 93 of the Law 4182/2013 (Government Gazette No 185, Issue A): "Code of charitable estate, inheritances in abeyance and other provisions", by Article 6 paragraph 8 of the Law 4244/2014 (Government Gazette 60, Issue A): "Integration in Greek law of the Council Directive 2013/1/EU of 20 December 2012 amending Directive 93/109/EC as regards certain detailed arrangements for the exercise of the right to vote and stand as a candidate in elections to the European Parliament for citizens of the Union residing in a Member State of which they are not nationals and amendment of law 2196/1994 (A' 41) and other provisions", by Article first subparagraph C.3 of the Law 4254/2014 (Government Gazette No 85, Issue A): "Measures for the support and development of the Greek economy, in the context of the implementation of Law 4046/2012, and other provisions of law" and by Article 33, paragraphs 5a and 5b of the Law 4258/2014 (Government Gazette No 94, Issue A): "Demarcation process and arrangements of matters for streams - arrangements of Urban Planning legislation and other provisions".*

<http://www.statistics.gr/en/legal-framework>

Regulation (EC) No 223/2009 of the European Parliament and of the Council, on the European statistics (Official Journal of the European Union L 87/164).

Article 14 of the Law 3470/2006 (Government Gazette No 132, Issue A): "National Export Council, tax regulations and other provisions".

Article 3, paragraph 1c, of the Law 3448/2006 (Government Gazette No 57, Issue A): "For the further use of information coming from the public sector and the settlement of matters falling within the responsibility of the Ministry of Interior, Public Administration and Decentralization".

European Statistics Code of Practice, adopted by the Statistical Programme Committee on 24 February 2005 and promulgated in the Commission Recommendation of 25 May 2005 on the independence, integrity and accountability of the national and Community statistical Authorities, after its revision, which was adopted on 28 September 2011 by the European Statistical System Committee. <http://www.statistics.gr/en/european-statistics-code-of-practice>

Presidential Decree 226/2000 (Government Gazette No 195, Issue A): "Organization of the General Secretariat of the National Statistical Service of Greece".

Articles 4, 12, 13, 14, 15 and 16 of the Law 2392/1996 (Government Gazette No 60, Issue A): "Access of the General Secretariat of the National Statistical Service of Greece to administrative sources and administrative files, Statistical Confidentiality Committee, settlement of matters concerning the conduct of censuses and statistical works, as well as of matters of the General Secretariat of the National Statistical

*Service of Greece".*

## **7.2 Data sharing**

Questionnaires of Eurostat, OECD, WHO for Health Statistics – Non economic data (Joint Questionnaire in Non Monetary Health Care Statistics).

## **8. Confidentiality**

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### **8.1 Confidentiality policy**

The issues concerning the observance of statistical confidentiality by the Hellenic Statistical Authority (ELSTAT) are arranged by articles 7, 8 and 9 of the Law 3832/2010 as in force, by Articles 8, 10 and 11(2) of the Regulation on Statistical Obligations of the agencies of the Hellenic Statistical System and by Articles 10 and 15 of the Regulation on the Operation and Administration of ELSTAT.

More specifically:

ELSTAT disseminates the statistics in compliance with the statistical principles of the European Statistics Code of Practice and in particular with the principle of statistical confidentiality.

### **8.2 Confidentiality – data treatment**

ELSTAT protects and does not disseminate data it has obtained or it has access to, which enable the direct or indirect identification of the statistical units that have provided them by the disclosure of individual information directly received for statistical purposes or indirectly supplied from administrative or other sources. ELSTAT takes all appropriate preventive measures so as to render impossible the identification of individual statistical units by technical or other means that might reasonably be used by a third party. Statistical data that could potentially enable the identification of the statistical unit are disseminated by ELSTAT if and only if:

a) these data have been treated, as it is specifically set out in the Regulation on Statistical Obligations of the agencies of the Hellenic Statistical System (ELSS), in such a way that their dissemination does not prejudice statistical confidentiality or

b) the statistical unit has given its consent, without any reservations, for the disclosure of data.

The confidential data that are transmitted by ELSS agencies to ELSTAT are used exclusively for statistical purposes and the only persons who have the right to have access to these data are the personnel engaged in this task and appointed by an act of the President of ELSTAT.

ELSTAT may grant researchers conducting statistical analyses for scientific purposes access to data that enable the indirect identification of the statistical units concerned. The access is granted provided the following conditions are satisfied:

a) an appropriate request together with a detailed research proposal in conformity with current scientific standards have been submitted;

b) the research proposal indicates in sufficient detail the set of data to be accessed, the methods of analyzing them, and the time needed for the research;

c) a contract specifying the conditions for access, the obligations of the researchers, the measures for respecting the confidentiality of statistical data and the sanctions in case of breach of these obligations has been signed by the individual researcher, by his/her institution, or by the organization commissioning the research, as the case may be, and by ELSTAT.

Issues referring to the observance of statistical confidentiality are examined by the Statistical Confidentiality Committee (SCC) operating in ELSTAT. The responsibilities of this Committee are to make recommendations to the President of ELSTAT on:

· the level of detail at which statistical data can be disseminated, so as the identification, either directly or

indirectly, of the surveyed statistical unit is not possible;

- the anonymization criteria for the microdata provided to users;
- the granting to researchers access to confidential data for scientific purposes.

The staff of ELSTAT, under any employment status, as well as the temporary survey workers who are employed for the collection of statistical data in statistical surveys conducted by ELSTAT, who acquire access by any means to confidential data, are bound by the principle of confidentiality and must use these data exclusively for the statistical purposes of ELSTAT. After the termination of their term of office, they are not allowed to use these data for any purpose.

Violation of data confidentiality and/or statistical confidentiality by any civil servant or employee of ELSTAT constitutes the disciplinary offence of violation of duty and may be punished with the penalty of final dismissal.

ELSTAT, by its decision, may impose a penalty amounting from ten thousand (10,000) up to two hundred thousand (200,000) euros to anyone who violates the confidentiality of data and/or statistical confidentiality. The penalty is always imposed after the hearing of the defence of the person liable for the breach, depending on the gravity and the repercussions of the violation. Any relapse constitutes an aggravating factor for the assessment of the administrative sanction.

## 9. Release policy

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### 9.1 Release calendar

There is no specified date for the release of data.

### 9.2 Release calendar access

No release calendar.

### 9.3 User access

Data are available in tables posted on the website

<http://www.statistics.gr/en/statistics/-/publication/SHE12/->,

at the link 'Population and Social Conditions> Health Care >Hospital discharged in-patients.

Equal access of users to data is stipulated in the European Statistics Code of Practice of Eurostat with respect to scientific independence and in an objective, professional and transparent manner in which all users are treated equitably.

Data are not made available to users prior to their announcement.

## 10. Frequency of dissemination

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Annual

## 11. Dissemination format

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### 11.1 News release

No.

### 11.2 Publications

Statistical Yearbook of Greece, Social Welfare and Health Statistics (in electronic format), Living Conditions in Greece.

<b>11.3 Data tables – consultations</b>
Total access to the website as regards the above survey for the year 2013 amounts to 1.074 hits.
<b>11.4 Micro-data access</b>
<p>Micro data are made available upon request at :</p> <p>Division of Statistical Information and Publications</p> <p>Peiraios 46 &amp; Eponiton, Post Office Box 80847, Postal Code 18510 Piraeus</p> <p>Tel. (+30) 213-1352173, FAX : (+30) 213-1352022</p> <p>Email : <a href="mailto:data.dissem@statistics.gr">data.dissem@statistics.gr</a></p> <p>Data confidentiality is always ensured (Chapter 8)</p>
<b>11.5 Other</b>
<p>Data are available through tables posted on the webpage <a href="http://www.statistics.gr">http://www.statistics.gr</a> , at the link 'Population and Social Conditions&gt; Health Care &gt;Hospital discharged in-patients</p> <p>Another source of data dissemination are International Organizations such as Eurostat-WHO-OECD: <a href="http://www.statistics.gr/en/international-organizations-cooperation">http://www.statistics.gr/en/international-organizations-cooperation</a></p>
<b>11.5.1 Metadata - consultations</b>
Not measured, the latest metadata were validated in February 2015.

12. Accessibility of documentation		<a href="#">Top</a>
12.1 Documentation on methodology		
Methodological documents are those adopted by International Organizations (Eurostat, WHO, OECD), and the instructions for the completion of the respective questionnaires. <i>Manual on the International Classification of Diseases and Related Health Problems: ICD-9</i>		
12.1.1 Metadata completeness - rate		
100%		
12.2 Quality documentation		
No quality report is compiled.		

<b>13. Quality management</b>	<a href="#">Top</a>
<b>13.1 Quality assurance</b>	
<p>Quality checks are performed throughout the whole process, from the data collection stage until the table's compilation stage.</p> <p>Data are collected in printed and electronic form, after the filling in of questionnaires by every Hospital. Data are codified, according to the statistical classification statistics and undergo logical checks. During the electronic processing, the data are checked and any mistakes are duly corrected. Then tables are produced and checked, for the compilation of comparable data series.</p>	
<b>13.2 Quality assessment</b>	
<p>Data quality is considered satisfactory. The electronic transmission of questionnaires will improve timeliness and quality of data.</p>	

<b>14. Relevance</b>	<a href="#">Top</a>
<b>14.1 User needs</b>	
Users are either individual users or agencies involved with the health sector for educational, vocational and scientific research reasons as well as International Organizations, OECD, Eurostat, and WHO.	



<b>14.2 User satisfaction</b>
Data on user's profile , the degree of their satisfaction and other relevant information are available on the basis of a relevant survey conducted every six months by the Section of Statistical Information of ELSTAT , on the website : <a href="http://www.statistics.gr/user-satisfaction-survey">http://www.statistics.gr/user-satisfaction-survey</a>
<b>14.3 Completeness</b>
It is considered satisfactory. Response rate for Hospital amounts to 100%.

<b>15. Accuracy and reliability</b>	<a href="#">Top</a>
<b>15.1 Overall accuracy</b>	
Data are characterised by high accuracy and reliability because the data are filled in by administrative sources with a response rate of 100%.	
<b>15.2 Sampling error</b>	
From 1997 onwards, sample processing of 12.5% of the survey questionnaires, except those questionnaires related to psychiatric hospitals.	
<b>15.3 Non-sampling error</b>	
Delays in data collection and partial completion of questionnaires.	
<b>15.3.1 Coverage error</b>	
Only a selected sample of the collected data is processed; only the data from the neuro-psychiatric hospitals and the Special Infectious Diseases Hospital are processed on a census basis, thus no coverage error is observed.	
<b>15.3.1.1 Over-coverage rate</b>	
No	
<b>15.3.1.2 Common Unites - proportion</b>	
Not applicable ; data are collected only from administrative sources.	
<b>15.3.2 Measurement error</b>	
No.	
<b>15.3.3 Non response error</b>	
No, response rate is 100%.	
<b>15.3.4 Processing error</b>	
No.	
<b>15.3.5 Model assumption error</b>	
Not applicable.	

<b>16. Timeliness and punctuality</b>	<a href="#">Top</a>
<b>16.1 Timeliness</b>	
Data are published 14 months after the end of the reference year.	
<b>16.2 Punctuality</b>	
Data for each year are published 14 months after the end of the reference year and are transmitted to Eurostat through a Joint Questionnaire in Non Monetary Health Care Statistics.	

<b>17. Comparability</b>	<a href="#">Top</a>
<b>17.1 Comparability – geographical</b>	
There is geographical comparability. Common methods and checks are followed in the central offices of ELSTAT which are applied to hospitals throughout Greece.	



<b>17.1.1 Asymmetry for mirror flows statistics - coefficient</b>
Not applicable.
<b>17.2 Comparability – over time</b>
Comparability – over time is ensured for the survey data.

<b>18. Coherence</b>	<a href="#">Top</a>
<b>18.1 Coherence cross-domain</b>	
There are no similar statistical results for the same variables of the survey	
<b>18.1.1 Coherence – sub annual and annual statistics</b>	
Not applicable, the survey is annual.	
<b>18.1.2 Coherence – National Accounts</b>	
Non applicable ; no common data with National Accounts.	
<b>18.2 Coherence - internal</b>	
A common Hospitals Register is used for all the surveys of the Division of Social Statistics (In-patient Hospital Care Survey and the Hospital Census).	

<b>19. Cost and burden</b>	<a href="#">Top</a>
Not estimated.	

<b>20. Data revision</b>	<a href="#">Top</a>
<b>20.1 Revision policy</b>	
The Hellenic Statistical Authority (ELSTAT) has adopted the present revision policy: <a href="http://www.statistics.gr/policies">http://www.statistics.gr/policies</a>	
<b>20.2 Revision practice</b>	
In case of changes in the values of a variable, there is the possibility of revising the statistical compilations.	

<b>21. Statistical processing</b>	<a href="#">Top</a>
<b>21.1 Source data</b>	
Primary data are received from administrative sources.	
<b>21.2 Frequency of data collection</b>	
Data are collected on a monthly basis.	
<b>21.3 Data collection</b>	
Printed questionnaires are filled in by the administrative services of the hospitals and are transmitted by post. The respective questionnaires that are completed electronically are transmitted via e-mail.	
<b>21.4 Data validation</b>	
Data are validated by means of quantitative and qualitative checks, which are based on cross-checking of data with the respective data of the previous year.	
<b>21.5 Data compilation</b>	
Once collected, data are logically checked, codified and imported in to the electronic database, and then data are tabulated and finally published.	
<b>21.5.1 Imputation – rate</b>	
Not applicable, the survey is a census survey.	

<b>21.6 Adjustment</b>
No adjustment.
<b>21.6.1 Seasonal adjustment</b>
Not applicable.

<b>22. Comment</b>	<a href="#">Top</a>