

# Single Integrated Metadata Structure (SIMS v2.0)

(user oriented)

**Country:** Greece

**Compiling agency:** ELSTAT

**Domain name:** HOSPITAL CENSUS

## ELSTAT metadata

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1. Contact <a href="#">Top</a>	
1.1 Contact organisation	GREEK STATISTICAL AUTHORITY (ELSTAT)
1.2 Contact organisation unit	DIRECTION OF SOCIAL STATISTICS (Γ6) / DEPARTMENT OF HEALTH & SOCIAL INSURANCE AND PROTECTION STATISTICS (Γ62)
1.3 Contact name	Alexandra Zografou
1.4 Contact person function	Correspondence, Data Collection, Data checking, Compilation of tables, Press Release and Quality Report.
1.5 Contact mail address	Pireos 46 and Eponiton, TK 185 10 Pireas
1.6 Contact email address	<a href="mailto:a.zografou@statistics.gr">a.zografou@statistics.gr</a>
1.7 Contact phone number	+30 213 1352785
1.8 Contact fax number	+30 213 1352763

## 2. Metadata update

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2.1 Metadata last certified	May 2017
2.2 Metadata last posted	May 2017
2.3 Metadata last update	January 2018

## 3. Statistical presentation

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### 3.1 Data description

The purpose of the census is to record the physical resources of secondary and tertiary health care in Greece on a yearly basis. The recording includes the number of public hospitals along with private clinics by regional unit (NUTS 3), as well as number of beds, medical and non-medical staff and high technology medical equipment. The survey is a census survey conducted on a yearly basis. The purpose of the census is to collect non – financial data that refer to all Hospitals of the country (Legal Entities of Public Law, Legal Entities of Private Law and private clinics). The sources of the census are the hospitals themselves that were operating on the 31<sup>st</sup> of December of the reference year. The survey is based on the Hospital's register with a unique number-identity for every unit, which is updated for any changes that may occur on an annual basis (opening of new hospitals, closing or intermission of existed ones, change of speciality, name and owner).

### 3.2 Classification system

The classification system used for the hospitals, medical equipment, medical specialities, non-medical speciality by education level and by high technology medical equipment is set out by ELSTAT.

Geographical classification is in accordance with NUTS: the survey is conducted at NUTS 3 level and the survey results are presented at NUTS 2 level. The results of the census (number of hospitals per legal entity, number of beds per medical section and department, physicians per speciality, nurses, other paramedical and non-paramedical specialities along with the equipment of high technology, refer to the total of the country, the geographical regions (NUTS 2) and regional units (NUTS 3).

### 3.3 Sector coverage

Secondary and Tertiary Sector of Health Care.

### 3.4 Statistical concepts and definitions

Hospital" shall mean an institution of secondary healthcare in which specialized staff with specialized equipment provides medical treatment and often but not always it provides long-term health care. Hospitals, according to their legal form are divided into Legal Entities of Public Law, Legal Entities of Private Law and private clinics. Depending on the incidents, they are divided into General, Combined and Specialized Hospitals (of Medical Specialities such as Cancer hospitals, V.D. and skin diseases, Cardiological, Infectious diseases and leprosy, Obstetrical-Gynaecological, Neuro-psychiatric, Orthopaedic, Ophthalmological, Pathological, Paediatrics, Tubercular, Surgical, Otorhinolaryngological).

The Hospital Departments are: Pathological, Surgical, Psychiatric and Other Sections. The hospital sections that belong to the Pathological Division are: haematology, radio therapeutic, allergy, immunology, gastrointestinal, V.D. and skin diseases, endocrinological, cardiological, Infectious diseases, neonatal, neurology, nephrology, oncology, paediatric, pulmonologists - tuberculosis, rheumatology, physical medicine and rehabilitation, decompression, external medical and short term hospitalisation, myocardial unit. The hospital sections that belong to the Surgical Division are: general, vascular, obstetrical-gynaecological, thoracic, cardio, neurological, orthopaedic, urologic, ophthalmologic, paediatric, orthopaedic, otorhinolaryngological and the plastic surgery, the sections that belong to the Psychiatric Division are: paediatric psychiatric, general psychiatric and psycho-geriatric.

The specialities of medical staff are: haematologists, radiologists, allergologists, anaesthesiologists, gastroenterologists, general practitioners, dermatologists, immunologists, occupational doctors, coroners, cardiologists, clinical chemistry, social medicine, cytologists, obstetricians-gynaecologists, microbiologists,

neurologists, neurosurgeons, nephrologists, dentists, orthopaedics, urinologists, ophthalmologists, hygienists, pneumonologists, physical medicine and rehabilitation, surgeons of general surgery, psychiatrics, otorhinolaryngologists, oncologists, intensive care specialists, doctors under specialization and doctors with no specialty.

### 3.5 Statistical unit

Hospital unit.

### 3.6 Statistical population

Hospital Total.

### 3.7 Reference area

Country Total.

### 3.8 Time coverage

One calendar year. Annual census. Data are available in hardcopies from 1992 onwards. From 2000 onwards, data are available in an electronic format.

### 3.9 Base period

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## 4. Unit of measure

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Number of hospitals by speciality, the number of personnel (medical and non-medical staff), the number of high technology equipment by type and the number of beds available at those hospitals.

## 5. Reference period

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One calendar year with date of reference 31<sup>st</sup> December 2016.

## 6. Institutional mandate

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### 6.1 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 and in force
- **Regulation on the Operation and Administration of the Hellenic Statistical Authority (ELSTAT)**, 2012, (Government Gazette No 2390, Issue B, 28-8-2012)
- **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.
- **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".*

The Legal Framework is detailed in the following link:

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

## 6.2 Data sharing

Joint questionnaire (EUROSTAT/OECD/WHO) on Non-Economic Health Care Statistics.

## 7. Confidentiality

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### 7.1 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 precisely:

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.

<http://www.statistics.gr/en/statistical-confidentiality?inheritRedirect=true>

### 7.2 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 defense 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.

## 8. Release policy

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### 8.1 Release calendar

There is no predefined date for the release of data. Final data are to be announced approximately twelve months after the end of the reference year.

### 8.2 Release calendar access

There is announcement calendar.

<http://www.statistics.gr/en/calendar>

### 8.3 User access

According to the legal framework of the Community and the «European Statistics Code of Practice», ELSTAT announces the results of the survey at its website at: (<http://www.statistics.gr>) at «Statistics> Population and Social Conditions>Health Care». Equal user access to data is defined by the European Statistics Code of Practice of Eurostat with respect to the professional independency and in objective, professional and transparent manner in which all users all users are treated equally. Data are not disseminated to users prior to their announcement.

## 9. Frequency of dissemination

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Annually. Final data are usually announced fourteen (14) months after the end of the reference year.

## 10. Accessibility and clarity

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### 10.1 News release

Press release is compiled.

<http://www.statistics.gr/en/calendar#12018>

### 10.2 Publications

1. «Statistical Yearbook of Greece». It is provided to subscribers for a fee or after an application to the Hellenic Statistical Authority.
2. «Concise Statistical Yearbook of Greece». ». It is provided to subscribers for a fee or after an application to the Hellenic Statistical Authority.

All above mentioned data are available upon request at:

Division of Statistical Information and Publications

46, Peireos & Eponiton str., 185 10 Piraeus

Tel. (+30) 213-1352173, FAX : (+30) 213-1352022

e-mail : [data.dissem@statistics.gr](mailto:data.dissem@statistics.gr)

Eurostat's publications : OECD, WHO-Europe (eg. Health in Europe, Health in Statistics).

### 10.3 On-line database

Users can find more data on the census on ELSTAT's website at:

<http://www.statistics.gr/portal/page/portal/ESYE/PAGE-database>

#### 10.3.1 Data tables - consultations

The total access to the web page of the relevant survey for the year 2017 amounts to 4,263 page views (total bits).

### 10.4 Micro-data access

Micro data are available to users upon request at:

Division of Statistical Information and Publications

46, Pireos & Eponiton str., 185 10 Piraeus

Tel. (+30) 213-1352173, FAX: (+30) 213-1352022

E-mail: [data.dissem@statistics.gr](mailto:data.dissem@statistics.gr)

Confidentiality of data is always ensured (Chapter 8). Due to confidentiality reasons, access to microdata is allowed only under strict conditions.

### 10.5 Other

Joint Questionnaire Eurostat – WHO – OECD

<http://www.oecd.org/els/health-systems/health-at-a-glance-19991312.htm>

<https://data.oecd.org/greece.htm#profile-health>

Another source for data dissemination are the International organizations, like Eurostat:

<http://ec.europa.eu/eurostat/data/database>

and ELSTAT's website at:

<http://www.statistics.gr/en/statistics/-/publication/SHE06/->

#### 10.5.1 Metadata – consultations

Not measured.

## 10.6 Documentation on methodology

There is no documentation or methodological note available.

### 10.6.1 Metadata completeness – rate

The metadata completeness rate is 100%.

## 10.7 Quality documentation

No quality report is compiled.

# 11. Quality management

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## 11.1 Quality assurance

Quality management is performed throughout the whole process from data collection to the compilation of tables with the annual data.

Data are collected through the completion of an electronic questionnaire by every unit. These data are codified, checked for completeness and correctness in communication with the administrative sources and are compared with data of the previous years. The Register of Hospitals is updated on the basis of the data of the reference year (opening of new units, final closure of existing ones, temporary closure, changes in specialty, changes on names and ownership). During computer processing data checks are conducted for the correction of errors. The produced tables are also checked in order to ensure comparability of the time series.

## 11.2 Quality assessment

The quality of data is considered satisfactory. Quality checks are conducted throughout the whole process from data collection to the compilation of tables with the final data.

# 12. Relevance

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## 12.1 User needs

Users are individuals or agencies involved in the health sector for professional or training – research purposes along with International Organizations such as OECD, EUROSTAT and WHO.

## 12.2 User satisfaction

User's needs are to be followed on a regular basis by the Division of Social Health Statistics and the Department of Health Statistics and Social Insurance and Protection. In general, there is smooth cooperation and as far as possible direct response to requests. At the same time, the Division of Statistical Information and Publications of ELSTAT conducts the user's satisfaction survey every six months:

<http://www.statistics.gr/en/user-satisfaction-survey>

## 12.3 Data completeness

Completeness is considered satisfactory.

# 13. Accuracy and reliability

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## 13.1 Overall accuracy

Overall accuracy and reliability of data are considered high since the data refers to census and data questionnaires are completed by the responsible sources with a great response rate amounting to 100%.

## 13.2 Sampling error

The survey is a census survey.

### **13.3 Non-sampling error**

#### **a. Unit non response**

The lack of response is less than 1%. There are delays in the answers from the administrative sources.

#### **b. Item non response**

The unanswered questions are filled through the communication with the contact persons in the hospitals.

#### **13.3.1 Coverage error**

The survey is a census survey. There is not a coverage error.

##### **13.3.1.1 A2. Over coverage rate**

It does not exist.

##### **13.3.1.2 A3. Common units proportion**

Not applicable. The data are collected from administrative sources.

#### **13.3.2 Measurement error**

The errors are corrected through the communication with the competent bodies who provide the data.

#### **13.3.3 Processing error**

Checks on questionnaires and on the registered data.

#### **13.3.4 Model assumption error**

Not applicable.

## **14. Timeliness and punctuality**

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### **14.1 Timeliness**

According to the legal framework of the Community and the «European Statistics Code of Practice», ELSTAT announces the results of the survey at its website at: (<http://www.statistics.gr>) at «Statistics> Population and Social Conditions>Health Care». Equal user access to data is defined by the European Statistics Code of Practice of Eurostat with respect to the professional independency and in objective, professional and transparent manner in which all users all users are treated equally. Data are not disseminated to users prior to their announcement.

### **14.2 Punctuality**

Data of every year are to publish 14 months after the end of the reference year and are transmitted to Eurostat through the Joint Questionnaire.

## **15. Coherence and comparability**

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### **15.1 Comparability - geographical**

There is comparability at the level of the Region (NUTS 2) I since the methodology that is applied is the same all over Greece. Moreover, data are comparable with other countries within the framework of filling in the « OECD Eurostat-Who-Europe Joint Questionnaire» on Non Financial Health Care Statistics.

#### **15.1.1 Assymetry for mirror flows statistics – coefficient**



Not applicable.
<b>15.2 Comparability over time</b>
The data are comparable over time.
<b>15.3 Coherence cross-domain</b>
There is cross-domain coherence. The Division of Social Statistics for both the survey on «Hospital discharged in-patients» and the «Hospital census» uses a common Register of Hospitals.
<b><u>15.3.1 Coherence – sub annual and annual statistics</u></b>
Not applicable, the census is conducted annually.
<b><u>15.3.2 Coherence – National Accounts</u></b>
Not applicable, there are no common data with the surveys of National Accounts.
<b>15.4 Coherence – internal</b>
The variables, the definitions and the classification systems that are used are internally coherent with the definitions provided by the Joint Questionnaire («OECD Eurostat –Who-Europe Joint Questionnaire» on Non Economic Health Care Statistics).

<b>16. Cost and burden</b>	<a href="#">Top</a>
There is no extra cost and burden apart from the operating expenses of the relevant department of Social Statistics Division of ELSTAT.	

<b>17. Data revision</b>	<a href="#">Top</a>
<b>17.1 Revision policy</b>	
The Revision policy implemented by ELSTAT is presented on ELSTAT's website at: <a href="http://www.statistics.gr/documents/20181/a49dca9a-dacf-4b52-b5df-b156216cb354">http://www.statistics.gr/documents/20181/a49dca9a-dacf-4b52-b5df-b156216cb354</a>	
<b>17.2 Revision practice</b>	
ELSTAT's Revision Policy is being implemented as presented on ELSTAT's website at: <a href="http://www.statistics.gr/documents/20181/a49dca9a-dacf-4b52-b5df-b156216cb354">http://www.statistics.gr/documents/20181/a49dca9a-dacf-4b52-b5df-b156216cb354</a>	

<b>18. Statistical processing</b>	<a href="#">Top</a>
<b>18.1 Source data</b>	
Primary data are collected by the administrative sources such as Hospitals of Public Law, Hospitals of Private Law and private clinics.	
<b>18.2 Frequency of data collection</b>	
The frequency of data collection is annual.	

<b>18.3 Data collection</b>	
Questionnaires are filled by the administrative sources of the hospitals and are transmitted to ELSTAT electronically.	
<b>18.4 Data validation</b>	
Data are validated through qualitative and quantitative checks that are based on crosschecking of primary data with the corresponding data of the previous year.	
<b>18.5 Data compilation</b>	
Tables containing final data are compiled and published on ELSTAT's website.	
<b><u>18.5.1 Imputation – rate</u></b>	
Not applicable.	
<b>18.6 Adjustment</b>	
There is no adjustment.	
<b><u>18.6.1 Seasonal adjustment</u></b>	
There is no seasonal adjustment.	
<b>19. Comment</b>	

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