**Eurostat – Health care staff**

**Hospital employment**

**Definitions**

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<th>Total hospital employment</th>
<th>Number of persons employed (head counts), and number of full-time equivalent (FTE) persons employed in general and specialised hospitals. Self-employed are included.</th>
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<td>Physicians employed in hospital</td>
<td>Number of physicians (see definition of physicians above) directly employed in a hospital.</td>
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<tr>
<td>Professional nurses and midwives employed in hospital</td>
<td>Number of professional nurses and midwives (see definition of professional nurses and midwives above) directly employed in a hospital.</td>
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<td>Associate professional nurses employed in hospital</td>
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<tr>
<td>Other staff employed in hospital</td>
<td>Other employees not elsewhere classified.</td>
</tr>
</tbody>
</table>

In the context of comparing health care services across Member States, Eurostat gives preference to the concept ‘practising’, as it best describes the availability of health care resources. The detailed definitions are available in [CIRCABC](https://ec.europa.eu/eurostat/web/healthcare-statistics).

The data refer to 31st December (unless otherwise indicated).

**Country specific notes**

Belgium, Bulgaria, Czech Republic, Denmark, Germany, Estonia, Ireland, Greece, Spain, France, Croatia, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Hungary, Malta, Netherlands, Austria, Poland, Portugal, Romania, Slovenia, Slovakia, Finland, Sweden, United Kingdom, Iceland, Liechtenstein, Norway, Switzerland, Montenegro, former Yugoslav Republic of Macedonia, Albania, Serbia, Turkey

**Belgium**

Total hospital employment
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.
Reference period: 31st December.
Coverage:
- Data exclude independent doctors working in hospitals.

Physicians employed in hospitals
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.  
Reference period: 31st December.  
Coverage:  
- Concerns only physicians employed by the hospitals (labour contract). Therefore, coverage does not include those working on a self-employed basis within the infrastructure of the hospital.  

Professional nurses and midwives employed in hospitals  
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.  
Reference period: 31st December.  

Associate professional nurses employed in hospitals  
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.  
Reference period: 31st December.  

Health care assistants employed in hospitals (ISCO-08 code: 5321)  
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.  
Reference period: 31st December.  

Other health service providers employed in hospitals  
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.  
Reference period: 31st December.  

Other staff employed in hospitals  
Source of data: SPF Santé publique - Service comptabilité des hôpitaux.  
Reference period: 31st December.  

Notes updated: 2017

Bulgaria  

Total hospital employment  
Source of data: National Statistical Institute, Exhaustive annual survey  
Reference period: 31 December  
Coverage: All persons (head counts) who worked on a basic labour contract in all type of hospitals as well as in dispensaries (HP.1).  
Since 2010 the pulmonary dispensaries are transformed into specialized hospitals, dermatovenerological dispensaries – into Dermato-venerological centres, oncological dispensaries – into Complex oncological centres, psychiatric dispensaries – into Mental health centres. The activities and functions of the centres and dispensaries are same.  

Physicians employed in hospitals  
Source of data: National Statistical Institute, Exhaustive annual survey  
Reference period: 31st December  
Coverage: All physicians (head counts) who worked on a basic labour contract in inpatient health establishments (HP.1). Physicians with maxillo-facial surgery speciality are excluded.  

Professional nurses and midwives employed in hospitals  
Source of data: National Statistical Institute, Exhaustive annual survey  
Reference period: 31st December  
Metadata information and comments: All qualified nurses and midwives (head counts) who worked on a basic labour contract in inpatient health establishments (HP.1)  

Associate professional nurses employed in hospitals  
This category doesn't exist.  

Health care assistants employed in hospitals (ISCO-08 code: 5321)  
Source of data: National Statistical Institute, Exhaustive annual survey  
Reference period: 31st December  
Coverage: All Health care assistants (head counts) (ISCO-08 code: 5329) who worked on a basic labour contract in inpatient establishments (HP1).
Professional activities carried out by health care assistant are legally regulated in Ordinance № 1 of the Ministry of Health from 2011 (SG. 15 of 2011) for professional activities that nurses, midwives, associated medical specialists and healthcare assistants can make by appointment or alone.

Estimation method: Data on medical specialists refer to the speciality that is practiced.

Break in time series – up to 2013 the category does not exists

According to the National Classification of Occupations and Duties, consistent with the International Standard Classification of Occupations (ISCO-08), the code 5321 includes hospital attendans (caring personnel) and persons responsible for hygiene. Persons included in this group do not have any medical education, knowledge or training. The tasks they perform are as follow: assisting patients with personal and therapeutic care needs such as personal hygiene, dressing; positioning, lifting and turning patients and transporting them in wheelchairs or on movable beds; maintaining patients' environmental hygiene standards, such as cleaning patient rooms and changing bed-linen.

All these persons are included in the group “Other staff employed in hospitals” - non health professionals working on a basic labour contract in inpatient health establishments.

Other staff employed in hospitals
Source of data: National Statistical Institute, Exhaustive annual survey
Reference period: 31st December

Metadata information and comments: Other staff employed in hospitals non health professionals working on a basic labour contract in inpatient health establishments (HP.1).

Other staff employed in hospitals
Source of data: National Statistical Institute, Exhaustive annual survey
Reference period: 31st December

Metadata information and comments: Other staff (non-health professionals) who work on a basic labour contract in inpatient health establishments (HP.1).

Czech Republic

Total hospital employment
Reference period: 31st December.

Coverage:
- Providers: Hospitals and specialised therapeutic institutes (excluding balneologic institutes, convalescence homes for children, institutes for long-term patients and hospices).
- Measurement units: head counts (employees on payroll and employers), FTE (employees on payroll, employers and contractual workers).
- Double counting of health workers working in more than one health establishment (applies only to head counts variable).
- In 2014, complete data are not available. Estimate is calculated from available data for 2014 and data from 2013.

Physicians employed in hospitals
Source of data: Institute of Health Information and Statistics of the Czech Republic. Annual report on health personnel.
Reference period: 31st December.
Coverage:
- Providers: Hospitals and specialised therapeutic institutes (excluding balneologic institutes, convalescence homes for children, institutes for long-term patients and hospices).
- Measurement units: head counts (employees on payroll and employers), FTE (employees on payroll, employers and contractual workers).
- In 2014, complete data are not available. Estimate is calculated from available data for 2014 and data from 2013.

Professional nurses and midwives employed in hospitals
Source of data: Institute of Health Information and Statistics of the Czech Republic. Annual report on health personnel.
Reference period: 31st December.
Coverage:
- Providers: Hospitals and specialised therapeutic institutes (excluding balneologic institutes, convalescence homes for children, institutes for long-term patients and hospices).
- Professions: professional nurses, associate professional nurses and midwives.
- Measurement units: Head counts (employees on payroll and employers), FTE (employees on payroll, employers and contractual workers).
- In 2014, complete data are not available. Estimate is calculated from available data for 2014 and data from 2013.
Deviation from definition: These data include also associate professional nurses..

Associate professional nurses employed in hospitals
Data not available (the number of associate professional nurses is included in the number of professional nurses).

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Institute of Health Information and Statistics of the Czech Republic. Annual report on health personnel.
Reference period: 31st December.
Coverage:
- Providers: Hospitals and specialised therapeutic institutes (excluding balneologic institutes, convalescence homes for children, institutes for long-term patients and hospices).
- Professions: Auxiliary nurses.
- Measurement units: Head counts (employees on payroll and employers), FTE (employees on payroll, employers and contractual workers).
- In 2014, complete data are not available. Estimate is calculated from available data for 2014 and data from 2013.

Other health service providers employed in hospitals
Source of data: Institute of Health Information and Statistics of the Czech Republic. Annual report on health personnel.
Reference period: 31st December.
Coverage:
- Providers: Hospitals and specialised therapeutic institutes (excluding balneologic institutes, convalescence homes for children, institutes for long-term patients and hospices).
- Professions: dentists, pharmacists, paramedical workers with professional qualifications (excluding nurses and midwives), paramedical workers with professional and specialised qualifications, health care workers pursuing paramedical profession under professional supervision or direct guidance (excluding auxiliary nurses) and other professional workers in health care.
- Measurement units: head counts (employees on payroll and employers), FTE (employees on payroll, employers and contractual workers).
- In 2014, complete data are not available. Estimate is calculated from available data for 2014 and data from 2013.

**Other staff employed in hospitals**

Source of data: Institute of Health Information and Statistics of the Czech Republic. Annual report on health personnel.
Reference period: 31st December.
Coverage:
- Providers: Hospitals and specialised therapeutic institutes (excluding balneologic institutes, convalescence homes for children, institutes for long-term patients and hospices).
- Professions: teachers and schoolmasters, technical and economic personnel, manual workers and operational personnel.
- Measurement units: Head counts (employees on payroll and employers), FTE (employees on payroll, employers and contractual workers).
- In 2014, complete data are not available. Estimate is calculated from available data for 2014 and data from 2013.

**Notes updated: 2017**

**Denmark**

**Total hospital employment**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.

Coverage:
- Only public section of health staff is included.
- Head counts: Data for ‘Service contracts with non-employed physicians’, ‘Service contracts with non-employed professional nurses and midwives’ and ‘Other staff employed by hospital’ are not available and thus not included in ‘Total hospital employment’.
- FTE: Data include ‘Other staff employed by hospital’.

Note: FTE figures are based on the employee’s job description, while head counts figures are based on employee’s education.

**Physicians employed in hospitals**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.

Coverage: Only public section of health staff is included.
Note: FTE figures are based on the employee’s job description, while head counts figures are based on employee’s education.

**Professional nurses and midwives employed in hospitals**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.
Coverage: Only public section of health staff is included.
Note: FTE figures are based on the employee's job description, while head counts figures are based on employee’s education.

**Associate professional nurses employed in hospitals**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.
Coverage: Only public section of health staff is included.
Note: FTE figures are based on the employee's job description, while head counts figures are based on employee’s education.

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.
Coverage: Only public section of health staff is included.
Note: FTE figures are based on the employee's job description, while head counts figures are based on employee’s education.

**Other health service providers employed in hospitals**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.
Coverage: Only public section of health staff is included.
Note: FTE figures are based on the employee's job description, while head counts figures are based on employee’s education.

**Other staff employed in hospitals**

Source of data:
- Head counts: The Danish Health Authority, Labour Register for Health Personnel.
- FTE: The joint municipal payroll data office (KRL).

Reference period:
- Head counts: 31st December. Data show the number for January first the following year.
- FTE: yearly average.
Coverage: Only public section of health staff is included.
Note: FTE figures are based on the employee's job description, while head counts figures are based on employee’s education.

Notes updated: 2017

**Germany**

Total hospital employment

Reference period: 31st December.

Coverage:
- Hospital employment comprises employment in all types of hospitals (HP1.1, 1.2 and 1.3) in all sectors (public, not-for-profit and private).
- Included are persons employed in general hospitals, mental health hospitals and prevention and rehabilitation facilities.
- Data on total hospital employment exclude non-employed physicians and non-employed professional nurses and midwives with service-contracts on treatment of hospital patients.
- From 2000 onwards data from Health Labour Accounts have been completely revised. Therefore comparable data before 2000 is not available. Data are rounded to the nearest thousand. 

Estimation method: The number of FTE is calculated by adding the full and appropriate proportion of part-time occupied employees. FTE are measured by the number of hours of a standard labour contract.

**Physicians employed in hospitals**


Reference period: 31st December.

Coverage:
- Data contain the number of physicians directly employed by a hospital.
- Included are physicians employed in general hospitals, mental health hospitals and prevention and rehabilitation facilities in all sectors (public, not-for-profit and private).
- Excluded are physicians with specialty “dental, oral and maxillofacial surgery”.
- From 2000 onwards data from Health Labour Accounts have been completely revised. Therefore comparable data before 2000 is not available. Data are rounded to the nearest thousand.

Estimation method: The number of FTE is calculated by adding the full and appropriate proportion of part-time occupied employees. FTE are measured by the number of hours of a standard labour contract.

**Professional nurses and midwives employed in hospitals**


Reference period: 31st December.

Coverage:
- Data contain the number of professional nurses and midwives directly employed by hospitals.
- Included are professional nurses and midwives employed in general hospitals, mental health hospitals and prevention and rehabilitation facilities in all sectors (public, not-for-profit and private).
- Included are professional nurses and midwives with a 3-year education (nurses, paediatric nurses and nurses for the elderly).
- Excluded are associate professional nurses with a 1-year education and students who have not yet graduated.
- From 2000 onwards data from Health Labour Accounts have been completely revised. Therefore comparable data before 2000 is not available. Data are rounded to the nearest thousand.

Estimation method: The number of FTE is calculated by adding the full and appropriate
proportion of part-time occupied employees. FTE are measured by the number of hours of a
standard labour contract.

**Associate professional nurses employed in hospitals**

Source of data: Federal Statistical Office, Health Labour Accounts 2017; special calculation

Reference period: 31st December.

**Coverage:**
- Data contain the number of associate professional nurses directly employed by hospitals.
- Included are associate professional nurses employed in general hospitals, mental health
  hospitals, and prevention and rehabilitation facilities in all sectors (public, not-for-profit and
  private).
- Included are associate professional nurses with a 1-year education (auxiliary nurses and
  auxiliary nurses for the elderly).
- Excluded are professional nurses with a 3-year education, midwives, emergency medical
  assistants and students who have not yet graduated.
- From 2000 onwards data from Health Labour Accounts have been completely revised.
  Therefore comparable data before 2000 is not available. Data are rounded to the nearest
  thousand.

**Estimation method:** The number of FTE is calculated by adding the full and appropriate
proportion of part-time occupied employees. FTE are measured by the number of hours of a
standard labour contract.

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**

Data not available. (Health care assistants are part of the group "Other health service
providers employed in hospital" and cannot be reported separately.)

**Other health service providers employed in hospitals**

Source of data: Federal Statistical Office, Health Labour Accounts 2017; special calculation

Reference period: 31st December.

**Coverage:**
- Data contain the number of other health professionals (e.g. dentists, physiotherapist,
laboratory assistants, emergency medical assistants, health care assistants) working in
  hospitals and students who have not yet graduated.
- Included are health professionals employed in general hospitals, mental health hospitals and
  prevention and rehabilitation facilities in all sectors (public, not-for-profit and private).
- From 2000 onwards data from Health Labour Accounts have been completely revised.
  Therefore comparable data before 2000 is not available. Data are rounded to the nearest
  thousand.

**Estimation method:** The number of FTE is calculated by adding the full and appropriate
proportion of part-time occupied employees. FTE are measured by the number of hours of a
standard labour contract.

**Other staff employed in hospitals**

Source of data: Federal Statistical Office, Health Labour Accounts 2017; special calculation

Reference period: 31st December.

**Coverage:**
- Data contain the number of other staff employed by hospitals (e.g. cleaning and kitchen
  staff, craftsmen, secretaries).
- Included is other staff employed in general hospitals, mental health hospitals and prevention
  and rehabilitation facilities in all sectors (public, not-for-profit and private).
- From 2000 onwards data from Health Labour Accounts have been completely revised.
Therefore comparable data before 2000 is not available. Data are rounded to the nearest thousand.

Estimation method: The number of FTE is calculated by adding the full and appropriate proportion of part-time occupied employees. FTE are measured by the number of hours of a standard labour contract

Notes updated: 2017

**Estonia**

Total hospital employment

Source of data: Annual report, National Institute for Health Development, Department of Health Statistics.

Reference period:
- Since 2013: November.

Coverage: For 2006-2010 the head count distribution is made according to their main occupational activity.

Break in time series: 2013
- The data collection methodology was changed in 2013. Aggregated data collection was replaced with data collection on a personal basis. From 2013, the predominant (main) area of practice is based on an occupation with the highest workload.
- Previous long-term care hospitals (HP.1) were classified amongst long-term nursing care facilities HP.2 according to the SHA2011 in 2013. Therefore, the total number of hospitals decreased in 2013 as well as the numbers of hospital employment.

Physicians employed in hospitals

Source of data: Annual report, National Institute for Health Development, Department of Health Statistics.

Reference period:
- Since 2013: November.

Coverage: For 2006-2010 the head count distribution is made according to their main occupational activity.

Break in time series: 2013
- The data collection methodology was changed in 2013. Aggregated data collection was replaced with data collection on a personal basis. From 2013, the predominant (main) area of practice is based on an occupation with the highest workload.

Professional nurses and midwives employed in hospitals

Source of data: Annual report, National Institute for Health Development, Department of Health Statistics.

Reference period:
- Since 2013: November.

Coverage: For 2006-2010 the head count distribution is made according to their main occupational activity.

Break in time series: 2012.
- From 2012, the number of practising nurses does not include radiology nurses. Radiology nurses (by job specification - same as radiology technicians) are classified in the category of other health service providers.

Break in time series: 2013.
- The data collection methodology was changed in 2013. Aggregated data collection was replaced with data collection on a personal basis. From 2013, the predominant (main) area of practice is based on an occupation with the highest workload.
Associate professional nurses employed in hospitals
The category "associate professional nurses" does not exist in Estonia.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Annual report, National Institute for Health Development, Department of Health Statistics.
Reference period:
- Since 2013: November.
Coverage: For 2006-2010 the head count distribution is made according to their main occupational activity.
Break in time series: 2013
- The data collection methodology was changed in 2013. Aggregated data collection was replaced with data collection on a personal basis. From 2013, the predominant (main) area of practice is based on an occupation with the highest workload.

Other health service providers employed in hospitals
Source of data: Annual report, National Institute for Health Development, Department of Health Statistics.
Reference period:
- Since 2013: November.
Coverage: For 2006-2010 the head count distribution is made according to their main occupational activity.
Break in time series: 2012.
- From 2012, the number of practising nurses does not include radiology nurses. Radiology nurses (by job specification - same as radiology technicians) are classified in the category of other health service providers.
- From 2012 assistant physicians (students), assistant nurses (students), assistant midwives (students) and assistant radiology technicians (students) who have no medical speciality are included. Before 2012 these data were not collected.
Break in time series: 2013.
- The data collection methodology was changed in 2013. Aggregated data collection was replaced with data collection on a personal basis. From 2013, the predominant (main) area of practice is based on an occupation with the highest workload.

Other staff employed in hospitals
Source of data: Annual report, National Institute for Health Development, Department of Health Statistics.
Reference period:
- Since 2013: November.
Coverage: For 2006-2010 the head count distribution is made according to their main occupational activity.
Break in time series: 2012.
- From 2012 the social workers employed in hospitals are included. Before 2012 these data were not collected.
Break in time series: 2013.
- The data collection methodology was changed in 2013. Aggregated data collection was replaced with data collection on a personal basis. From 2013, the predominant (main) area of practice is based on an occupation with the highest workload.
- Since 2013 data about non-medical personnel are not collected. The collected data includes only persons providing health-care services and not the staff providing other support services in hospital.

Notes updated: 2017

Ireland

Total hospital employment
Source of data: HR Management Information, Health Service Executive.
Reference period: 31st December.
Coverage:
- Data refer to publicly funded acute hospitals only. All employees under the aegis of Acute Services are included.
- Historical data have been restated to cover re-structured health service configuration. Some years’ data may remain unchanged.

Physicians employed in hospitals
Source of data: HR Management Information, Health Service Executive.
Reference period: 31st December.
Coverage:
- Data refer to publicly funded acute hospitals only. All employees under the aegis of Acute Services are included.
- Physicians taken to be Medical/Dental grade category excluding Dentists.
- Historical data have been restated to cover re-structured health service configuration. Some years' data may remain unchanged.

Professional nurses and midwives employed in hospitals
Source of data: HR Management Information, Health Service Executive.
Reference period: 31st December.
Coverage:
- Data refer to publicly funded acute hospitals only. All public hospitals under the aegis of the National Hospitals Office are included.
- Excludes Nursing Students
- Historical data have been restated to cover re-structured health service configuration. Some years' data may remain unchanged.

Associate professional nurses employed in hospitals
Associate professional nurses do not feature in the Irish Health Service (Source: HSE, Nursing Services Directorate).

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: HR Management Information, Health Service Executive.
Reference period: 31st December.
Coverage:
- Data refer to publicly funded acute hospitals only. All employees under the aegis of Acute Services are included.
- Historical data have been restated to cover re-structured health service configuration. Some years' data may remain unchanged.

Other health service providers employed in hospitals
Source of data: HR Management Information, Health Service Executive.
Reference period: 31st December.
Coverage:
- Data refer to publicly funded acute hospitals only. All employees under the aegis of Acute Services are included.
- Other Staff taken to be Total Staff less those listed separately.
- Historical data have been restated to cover re-structured health service configuration. Some years' data may remain unchanged.

**Other staff employed in hospitals**

Source of data: HR Management Information, Health Service Executive.

Reference period: 31st December.

Coverage:
- Data refer to publicly funded acute hospitals only. All public hospitals under the aegis of the National Hospitals Office are included.
- Other Staff taken to be Total Staff less those listed separately.
- Historical data have been restated to cover re-structured health service configuration. Some years' data may remain unchanged.

*Notes updated: 2017*

**Greece**

**Total hospital employment**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

Coverage: Administrative staff is included.

**Physicians employed in hospitals**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

**Professional nurses and midwives employed in hospitals**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

**Associate professional nurses employed in hospitals**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

**Other health service providers employed in hospitals**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

Coverage: The number of other health professionals employed by hospital includes: pharmacists, physics and radiophysics, psychologists, laboratory assistants, physiotherapists, occupational therapists, and dieticians.

**Other staff employed in hospitals**

Source of data: Hellenic Statistical Authority (EL.STAT.).

Reference period: 31st of December.

*Notes updated: 2017*

**Spain**

**Total hospital employment**

Source of data:
- Up to 2009: Ministry of Health, Social Services and Equity from Statistics on Health Establishments Providing Inpatient Care (ESCRi).

- Since 2010: Ministry of Health, Social Services and Equity from Specialised Care Information System (Sistema de Información de Atención Especializada - SIAE).
Reference period: 31st December.

Coverage:
- All public and private hospitals in Spain are included.
- Number of physicians employed by hospital: doctors in training (interns and resident) are included.
- Other health professionals: includes another health staff (university degree or adequate diploma) working in the hospital (e.g. physiotherapists, psychologists, pharmacists, etc.).
- Other staff: includes non-health staff working in hospital (e.g. administrative staff, etc.).
- FTE data are not available.

Break in time series: Until 2009 Family practitioners in training in hospital are included. Since 2010 Family practitioners in training in hospital are excluded.

Physicians employed in hospitals
Source of data:
- Since 2010: Ministry of Health, Social Services and Equity from Specialised Care Information System (Sistema de Información de Atención Especializada - SIAE).

Professional nurses and midwives employed in hospitals
Source of data:
- Since 2010: Ministry of Health, Social Services and Equity from Specialised Care Information System (Sistema de Información de Atención Especializada - SIAE).

Associate professional nurses employed in hospitals
The category 'associate professional nurses' does not exist in Spain.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data:
- Since 2010: Ministry of Health, Social Services and Equity from Specialised Care Information System (Sistema de Información de Atención Especializada - SIAE).
Coverage:
- All public and private hospitals in Spain are included.
- FTE data are not available.

Other health service providers employed in hospitals
Source of data:
- Since 2010: Ministry of Health, Social Services and Equity from Specialised Care Information System (Sistema de Información de Atención Especializada - SIAE). Reference period: 31st December.

Coverage:
- All public and private hospitals in Spain are included.
- Other health professionals: includes another health staff (university degree or adequate diploma) working in the hospital (e.g. physiotherapists, psychologists, pharmacists, etc.).
- FTE data are not available.

Other staff employed in hospitals
Source of data:
- Since 2010: Ministry of Health, Social Services and Equity from Specialised Care Information System (Sistema de Información de Atención Especializada - SIAE). Reference period: 31st December.

Coverage:
- All public and private hospitals in Spain are included.
- Number of physicians employed by hospital: doctors in training (interns and resident) are included.
- Other staff: includes non-health staff working in hospital (e.g. administrative staff, etc.).
- FTE data are not available.

Notes updated: 2017

France
Total hospital employment
Source of data: Ministère de la Santé et des Sports - Direction de la Recherche, des Etudes, de l'Evaluation et des Statistiques (DREES). Data are from the "Statistique Annuelle des Etablissements de santé (SAE)". Reference period: 31st December.

Coverage:
- Data refer to metropolitan France and D.O.M. (overseas departments).
- Total hospital employment includes salaried personnel (medical and non-medical), interns/residents, “faisants fonction d’internes (FFI)” and “diplômés inter-universitaires de spécialité (DIS)” as well as self-employed medical personnel. Information on self-employed non-medical personnel is not available.

Estimation method:
- Until 2008, fixed-term contracts were not counted in the head count nor in the FTE. Only the paid monthly average FTE is known. The FTE of fixed-term contracts are estimated by the paid monthly average FTE. Head counts cannot be estimated.
FTE of self-employed medical personnel is not available, but we know the head count of the self-employed. The FTE are estimated from head counts by applying conventional calculating rules according to the working time of the self-employed.

Break in time series:
- From 2000 onwards, the “faisants fonction d’internes (FFI)” and “diplômés inter-universitaires de spécialité (DIS)” are not available by specialty. Therefore, the FFI-DIS data have been estimated based on their ratios in the total number of FFI-DIS over 1994-1999.
- From 2009 onwards, head counts of fixed-term contracts are also included for the non medical staff. Previously only head count of rolling contracts and holders and trainees of the public service were counted.
- From 2011 onwards, the number of persons employed in nursing structures or in nurses and midwives schools legally depending on hospitals are not counted.
- From 2013, the number of geographical establishments for all sectors (public and private) is counted. The number of hospital persons employed is clearly less impacted by the recast than the number of hospitals. Nonetheless, in this recast, the change of the unit surveyed results in a better quality of data collected in general (less double counting than before), so that the quality of data for the number of persons employed can be marginally improved.

Physicians employed in hospitals
Source of data: Ministère de la Santé et des Sports - Direction de la Recherche, des Etudes, de l'Evaluation et des Statistiques (DREES). Data are from the "Statistique Annuelle des Etablissements de santé (SAE)".
Reference period: 31st December.
Coverage:
- Data refer to metropolitan France and D.O.M. (overseas departments).
- Data include self-employed physicians.
- FTE of self-employed medical personnel is not available, but the head count of these self-employed is known. The FTE are estimated from head counts by applying conventional calculating rules according to the working time of the self-employed.

Break in time series:
- From 2000 onwards, the “faisants fonction d’internes (FFI)” and “diplômés inter-universitaires de spécialité (DIS)” are not available by specialty. Therefore, the medical FFI-DIS data have been estimated based on their ratios in the total number of FFI-DIS over 1994-1999.
- From 2013, the number of geographical establishments for all sectors (public and private) is counted. The number of hospital persons employed is clearly less impacted by the recast than the number of hospitals. Nonetheless, in this recast, the change of the unit surveyed results in a better quality of data collected in general (less double counting than before), so that the quality of data for the number of persons employed can be marginally improved.

Professional nurses and midwives employed in hospitals
Source of data: Ministère de la Santé et des Sports - Direction de la Recherche, des Etudes, de l'Evaluation et des Statistiques (DREES). Data are from the "Statistique Annuelle des Etablissements de santé (SAE)".
Reference period: 31st December.
Coverage: Data refer to metropolitan France and D.O.M. (overseas departments).
Estimation method: Until 2008, fixed-term contracts were not counted in the head count or in the FTE. Only the paid monthly average FTE is known. The FTE of fixed-term contracts are estimated by the paid monthly average FTE. Head counts cannot be estimated.
Break in time series:
- From 2009 onwards, head counts of fixed-term contracts are also included for the non medical staff. Previously only head counts of rolling contracts and holders and trainees of the public service were counted.
- From 2011 onwards, the number of persons employed in nursing structures or in nurses and midwives schools legally depending on hospitals are not counted.
- From 2013, the number of geographical establishments for all sectors (public and private) is counted. The number of hospital persons employed is clearly less impacted by the recast than the number of hospitals. Nonetheless, in this recast, the change of the unit surveyed results in a better quality of data collected in general (less double counting than before), so that the quality of data for the number of persons employed can be marginally improved.

**Associate professional nurses employed in hospitals**

The category "associate professional nurses" does not exist in France.

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**

Source of data: Ministère de la Santé et des Sports - Direction de la Recherche, des Etudes, de l'Evaluation et des Statistiques (DREES). Data are from the "Statistique Annuelle des Etablissements de santé (SAE)".

Reference period: 31st December.

Coverage: Data refer to metropolitan France and D.O.M. (overseas departments).

Estimation method: Until 2008, fixed-term contracts were not counted in the head count nor in the FTE. Only the paid monthly average FTE is known. The FTE of fixed-term contracts are estimated by the paid monthly average FTE. Head counts cannot be estimated.

Break in time series:
- From 2009 onwards, head counts of fixed-term contracts are also included for the non medical staff. Previously only head counts of rolling contracts and holders and trainees of the public service were counted.
- From 2011 onwards, the number of persons employed in nursing structures or in nurses and midwives schools legally depending on hospitals are not counted.
- From 2013, the number of geographical establishments for all sectors (public and private) is counted. The number of hospital persons employed is clearly less impacted by the recast than the number of hospitals. Nonetheless, in this recast, the change of the unit surveyed results in a better quality of data collected in general (less double counting than before), so that the quality of data for the number of persons employed can be marginally improved.

**Other health service providers employed in hospitals**

Source of data: Ministère de la Santé et des Sports - Direction de la Recherche, des Etudes, de l'Evaluation et des Statistiques (DREES). Data are from the "Statistique Annuelle des Etablissements de santé (SAE)".

Reference period: 31st December.

Coverage:
- Data refer to metropolitan France and D.O.M. (overseas departments).
- Data include the service contracts with non-employed medical staff.

Estimation method:
- From 2000 onwards, FFI-DIS pharmacists and odontologists have been estimated based on their ratios in total FFI-DIS over 1994-1999.
- Until 2008, fixed-term contracts were not counted in the head count nor in the FTE. Only the paid monthly average FTE is known. The FTE of fixed-term contracts are estimated by the paid monthly average FTE. Head counts cannot be estimated.
- FTE of self-employed medical personnel is not available, but the head count of the self-employed is known. The FTE are estimated from head counts by applying conventional calculating rules according to the working time of the self-employed.

Break in time series:
- From 2009 onwards, head counts of fixed-term contracts are also included for the non-medical staff. Previously only head counts of rolling contracts and holders and trainees of the public service were counted.
- From 2011 onwards, the number of persons employed in nursing structures or in nurses and midwives schools legally depending on hospitals are not counted.
- From 2013, the number of geographical establishments for all sectors (public and private) is counted. The number of hospital persons employed is clearly less impacted by the recast than the number of hospitals. Nonetheless, in this recast, the change of the unit surveyed results in a better quality of data collected in general (less double counting than before), so that the quality of data for the number of persons employed can be marginally improved.

Other staff employed in hospitals
Source of data: Ministère de la Santé et des Sports - Direction de la Recherche, des Etudes, de l'Evaluation et des Statistiques (DREES). Data are from the "Statistique Annuelle des Etablissements de santé (SAE)".
Reference period: 31st December.
Coverage: Data refer to metropolitan France and D.O.M. (overseas departments).
Estimation method: Until 2008, fixed-term contracts were not counted in the head count nor in the FTE. Only the paid monthly average FTE is known. The FTE of fixed-term contracts are estimated by the paid monthly average FTE. Head counts cannot be estimated.
Break in time series:
- From 2009 onwards, head counts of fixed-term contracts are also included for the non-medical staff. Previously only head counts of rolling contracts and holders and trainees of the public service were counted.
- From 2011 onwards, the number of persons employed in nursing structures or in nurses and midwives schools legally depending on hospitals are not counted.
- From 2013, the number of geographical establishments for all sectors (public and private) is counted. The number of hospital persons employed is clearly less impacted by the recast than the number of hospitals. Nonetheless, in this recast, the change of the unit surveyed results in a better quality of data collected in general (less double counting than before), so that the quality of data for the number of persons employed can be marginally improved.

Notes updated: 2017

**Croatia**

**Total hospital employment**
Source of data: Croatian Institute of Public Health, Health Manpower Register
Reference period: data on December 31
Coverage: public and private health sectors included

**Physicians employed in hospitals**
Source of data: Croatian Institute of Public Health, Health Manpower Register
Reference period: data on December 31
Coverage: public and private health sectors included

**Professional nurses and midwives employed in hospitals**
Source of data: Croatian Institute of Public Health, Health Manpower Register
Reference period: data on December 31
Coverage: public and private health sectors included

**Associate professional nurses employed in hospitals**
Source of data: Croatian Institute of Public Health, Health Manpower Register
Reference period: data on December 31
Coverage: public and private health sectors included

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**
Source of data: Croatian Institute of Public Health, Health Manpower Register
Reference period: data on December 31
Coverage: public and private health sectors included

Other health service providers employed in hospitals
Source of data: Croatian Institute of Public Health, Health Manpower Register
Reference period: data on December 31
Coverage: public and private health sectors included

Notes updated: 2017

Italy

Total hospital employment
Reference period: 1st January.
Coverage:
- Data available for head counts only.
- Since 2003 data refer to public and private hospitals, including private hospitals not accredited by the National Health Service.

Physicians employed in hospitals
Reference period: 1st January.
Coverage:
- Data available for head counts only.
- Since 2003 data refer to public and private hospitals, including private hospitals not accredited by the National Health Service.

Professional nurses and midwives employed in hospitals
Reference period: 1st January.
Coverage:
- Data available for head counts only.
- Since 2003 data refer to public and private hospitals, including private hospitals not accredited by the National Health Service.

Associate professional nurses employed in hospitals
Coverage: In the Italian regulatory system, the category “Associate professional nurses” does not exist.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Data not available. (This category of workers is included in “Other staff employed in hospital”).

Other health service providers employed in hospitals
Reference period: 1st January.
Coverage:
- Data available for head counts only.
- Since 2003 data refer to public and private hospitals, including private hospitals not accredited by the National Health Service.

Other staff employed in hospitals
Reference period: 1st January.

Notes updated: 2017

Cyprus

Total hospital employment
Data not available due to the fact that not all categories are filled in, i.e no data available for other health service providers employed in hospitals, other staff employed in hospitals.

Physicians employed by hospital
Source of data: Annual survey conducted from the Statistical Service of Cyprus.
Reference period: 31st December
Coverage: Data on hospital manpower concern the public sector only.
No data on hospital manpower available for the year 2000.
Break in series: From 2011 onwards, included are the trainees, i.e. physicians who have completed their studies in medicine at university level (granted by adequate diploma) and who are licensed to practice and are attending a postgraduate internship for obtaining specialization but at the same time they are providing services in the hospital. No data on the trainees is available for previous years.

Professional nurses and midwives employed by hospital
Source of data: Annual survey conducted from the Statistical Service of Cyprus.
Reference period: 31st December of the reference year.
Coverage:
• From 2006 up to 2010, included are the professionally active nurses and the professionally active psychiatric nurses employed in public sector’s hospitals. Midwives activated in the public sector’s hospitals with the status of nursing officers are included. All the nurses and midwives activated in the private sector are included, irrespectively if they are employed in hospitals or not, since the disaggregation was not available.
• From 2011 onwards, the disaggregation of the nurses activated in the private sector, to those working in hospitals or in other medical institutions is available, hence, included are the professionally active nurses and the professionally active psychiatric nurses employed in public sector’s hospitals. Midwives activated in the public sector’s hospitals with the status of nursing officers are included. Nurses and midwives employed in hospitals of the private sector are included. Nurses and midwives of the private sector not employed in hospitals have been excluded.

Associate professional nurses employed by hospital
Data for associate professional nurses employed in hospitals exists only from 2005 onwards.
Data sources:
Public Sector: Annual survey amongst the health care institutions of the public sector, conducted from the Statistical Service of Cyprus
Private Sector: Private Clinic Inspectors.
Deviation from the definition: For 2005, the number of associate professional nurses refers only to the public sector, no data available for the private sector (a break in series occurs in 2006).

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**
Data not available.

**Other health professionals employed by hospital**
Data available from 2001 onwards and cover only the Hospitals of the Public Sector. The following providers are included:
- Dentists
- Pharmacists
- Medical physics
- Chemists
- Dieticians
- Clinical psychologists
- Physiotherapists
- Radiographers
- Orthoptists
- Speech-Therapists
- Dental Hygienists
- Audiologists
- Occupational therapists
- Thalassaemia Laboratory Officers, Technologists and Assistants
- Radioisotope Laboratory and Nuclear Medicine Technologists
- Medical Laboratory Personnel\n
Data source: Statistical Service of Cyprus, Administrative data obtained from the Public Sector Hospitals

**Other staff employed by hospital**
Data available from 2001 onwards and cover only the Hospitals of the Public Sector. The following providers are included:
- Sanitary officers
- Sanitary inspectors
- Electrograph assistants and technicians
- Technicians of dental laboratory
- Physics technicians
- Laboratory technicians
- Pharmacy technicians
- Technicians of extracorporeal circulation
- Dental clinic assistants
- Occupational therapist assistants
- Mortuary assistants

Data source: Statistical Service of Cyprus, Administrative data obtained from the Public Sector Hospitals

*Notes updated: 2017*

**Latvia**

**Total hospital employment**
Source of data: Centre for Disease Prevention and Control; Statistical Report.
Reference period: 31 December.
Note: Data for full-time equivalent (FTE) not available.

**Physicians employed in hospitals**
Professional nurses and midwives employed in hospitals
Source of data: Centre for Disease Prevention and Control; Statistical Report.
Reference period: 31 December.

Associate professional nurses employed in hospitals
Data not available. (Within the Latvian Statistical System data on nurses are not completely comparable and compatible with requirements (practising nurses/professionally active nurses/nurses licensed to practise). Health statistics data from the Health Economic Center and the Health Inspectorate include information on nurses in the main job distinguishing between nurses with secondary medical education and nurses with higher education. Latvia has no practice in publication of information about nurses according to the ISCO-88 classification for all nurses authorised to carry out professional activity regardless of the level of education. Thus, nursing care staff breakdown in Professional and Associate professional nurses in tables is not possible, and all nurses are included in group Professional nurses.)

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Centre for Disease Prevention and Control; Statistical Report.
Reference period: 31 December.

Other health service providers employed in hospitals
Source of data: Centre for Disease Prevention and Control; Statistical Report.
Reference period: 31 December.

Other staff employed in hospitals
Source of data: Centre for Disease Prevention and Control; Statistical Report.
Reference period: 31 December.

Notes updated: 2017

Lithuania

Total hospital employment
Source of data: Health Information Centre of Institute of Hygiene, data of entire annual survey of health establishments.
Reference period: 31st December
Coverage:
- Data for all hospitals excluding nursing hospitals. Service contracts with non-employed health professionals are excluded.
- The Annual survey collection includes data on physical persons and full time equivalents. For physical persons: a person is included only if this institution is the main job for this person. If a person is working in several institutions he/she will be presented as a physical person only once. But FTE will be presented for the person in every institution he works.
- For full time equivalents data on contractual working hours is presented in annual survey: an employee with a full-time employment contract is counted as 1 FTE; depending on the contractual hours an employee could work 0.25, 0.5, 075, 1.25, 1.5 FTE.

Physicians employed in hospitals
Source of data: Health Information Centre of Institute of Hygiene, data of entire annual survey of health establishments.
Reference period: 31st December
Coverage:
- Data for all hospitals excluding nursing hospitals. Service contracts with non-employed health professionals are excluded. Service contracts with non-employed health professionals are excluded.
- Full time equivalents data is higher than head count data. Very often in Lithuania medical specialists (especially physicians) and some other employees are working more than 1 staff (1.25 or 1.5).

**Professional nurses and midwives employed in hospitals**

Source of data: Health Information Centre of Institute of Hygiene, data of entire annual survey of health establishments.

Reference period: 31st December

Coverage: Data for all hospitals excluding nursing hospitals. Service contracts with non-employed health professionals are excluded.

**Associate professional nurses employed in hospitals**

There is no such category in Lithuania.

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**

Source of data: Health Information Centre of Institute of Hygiene, data of entire annual survey of health establishments.

Reference period: 31st December

Coverage: Data for all hospitals excluding nursing hospitals. Service contracts with non-employed health professionals are excluded.

**Other health service providers employed in hospitals**

Source of data: Health Information Centre of Institute of Hygiene, data of entire annual survey of health establishments.

Reference period: 31st December

Coverage: Data for all hospitals excluding nursing hospitals. Service contracts with non-employed health professionals are excluded.

**Other staff employed in hospitals**

Source of data: Health Information Centre of Institute of Hygiene, data of entire annual survey of health establishments.

Reference period: 31st December

Coverage: Data for all hospitals excluding nursing hospitals. Service contracts with non-employed health professionals are excluded.

Notes updated: 2017

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**Luxembourg**

**Total hospital employment**

Source of data:

- Head Counts: Administrative database on social security registration, survey on physicians working in hospitals (IGSS), provider registration database (National Health Insurance).
- Full Time Equivalents: National Health Insurance.

Coverage:

Head counts:
- The definition of health employment is linked to the SHA provider classification of HP1.
- About half of the hospitals have subcontracting contracts for the cleaning and kitchen auxiliary services. People providing these services are not included.

Full Time Equivalents:
- Doctors are not included, since almost all doctors have private offices and it is very difficult to make the link with hospitals based on administrative sources.
- Approximately half of the hospitals have subcontracting contracts for the cleaning and kitchen auxiliary services. People providing these services are not included.
- The staff of the specialised institution 'Centre National de Rééducation Fonctionnelle et de
Réadaptation de Hamm' is included in data from 2002.
- Data for 2008 are estimated.
- In 2008: There was no negotiated staff for some of the hospitals. The rate indicated for “total hospital staff” has been calculated with the staff negotiated for the previous year (for those hospitals only) and should be considered as provisional.

Physicians employed in hospitals
Data not available.
Professional nurses and midwives employed in hospitals
Source of data: Direction de la santé, service des statistiques.
Reference period: 31st December.
Associate professional nurses employed in hospitals
Source of data: Direction de la santé, service des statistiques.
Reference period: 31st December.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Direction de la santé, service des statistiques.
Reference period: 31st December.
Other health service providers employed in hospitals
Data not available.
Other staff employed in hospitals
Data not available.
Notes updated: 2017

Hungary

Total hospital employment
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu,”Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2 (Mental health and substance abuse hospitals); 1.3 (Speciality hospitals).
Reference period: 31st December.
Coverage: Includes physicians, nurses, other health personnel, (e.g. pharmacists), health care assistants and other staff.
Estimation method: Method used to calculate the number of full-time equivalents (FTE): FTE employment measured by the number of hours actually or usually worked divided by the average number of hours worked in full-time jobs.

Physicians employed in hospitals
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu.”Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2 (Mental health and substance abuse hospitals); 1.3 (Speciality hospitals).
Reference period: 31st December.

Professional nurses and midwives employed in hospitals
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu.”Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2 (Mental health and substance abuse hospitals); 1.3 (Speciality hospitals).
Reference period: 31st December.
Coverage: Including professional nurses and midwives.

Associate professional nurses employed in hospitals
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu.”Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2 (Mental health and substance abuse hospitals); 1.3 (Speciality hospitals).
Reference period: 31st December.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu.
“Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2
(Mental health and substance abuse hospitals); 1.3 (Specialty hospitals).
Reference period: 31st December.
Other health service providers employed in hospitals
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu.
“Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2
(Mental health and substance abuse hospitals); 1.3 (Specialty hospitals).
Reference period: 31st December.
Other staff employed in hospitals
Source of data: Hungarian Central Statistical Office (KSH in Hungarian) www.ksh.hu.
“Report on personnel of health service” per ICHA-HP categories: 1.1(General hospitals); 1.2
(Mental health and substance abuse hospitals); 1.3 (Specialty hospitals).
Reference period: 31st December.
Notes updated: 2017

Malta
Total hospital employment
Source of data: Figures for Hospital Manpower for 2007 comprise only personnel employed
in State Hospitals
Data sources from 2009 onwards are the establishments themselves, Data collated by the
Directorate for Health Information and Research from data received from state and private
hospitals.
Break in series: 2009
Physicians employed in hospitals
Sources of the data: Data comes from the establishments themselves.
Reference period: 31st December
Coverage:
For 2007, number of physicians employed by hospital, head count: includes 65 physicians
working on contract.
For 2009, the figure of 636, head count, includes 7 working on contract.
Figures for 2010 onwards include physicians working on contract.
Professional nurses and midwives employed in hospitals
Sources of the data: Data comes from the establishments themselves.
Reference period: 31st December
Coverage
For 2007, number of qualified nurses and midwives employed by hospital, head
count: includes 18 Nurses/Midwives working on contract.
For 2009 data collected from state and private hospitals. The figure of 2159, head count,
includes 1 working on contract.
Figures from 2010 onwards include nurses working on contract.
Associate professional nurses employed in hospitals
This category does not exist in Malta.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Sources of the data: Data comes from the establishments themselves.
Reference period: 31st December.
For 2009, the figure of 1356, head count, includes 194 working on contract.
Figures for 2010 onwards include contracted workers.
Other health service providers employed in hospitals
Sources of the data: Data comes from the establishments themselves.
Reference period: 31st December
Coverage: For 2007, number of other health professionals employed by hospital, head count: includes 2 Other Health Professionals working on contract
For 2009, the number of 859 other healthcare professionals, head count, includes 22 working on contract.
Figures for 2010 onwards include contracted other healthcare professionals.
Figures for other health service providers employed in hospital for 2013 and 2014 were revised as it was noted that staff who were not working in a hospital had been inadvertently included.

Other staff employed in hospitals
Sources of the data: Data comes from the establishments themselves.
Reference period: 31st December
For 2009, the figure of 1622, head count, includes 550 working on contract.
Figures for 2010 onwards include contracted workers.

Notes updated: 2017

Netherlands
Total hospital employment
Source of data: Statistics Netherlands.
- 2012 onwards: Data based on BIG Register (register of (para)medical professions); SSB database (micro-integrated database of Statistics Netherlands with data from the municipal register, tax register, social security, and business register).
- 2006-2011: Annual reports social account.
Coverage: Does not include self-employed medical specialists who work in the hospital.
Estimation method:
- Until 2005: The figures present persons employed (FTEs) in general, university and specialised hospitals, including mental hospitals. The data are based on an annual questionnaire among hospitals. All persons paid by the institution, both persons on the payroll and those who are paid by the institution in another way (temporary employees, employees of employment agencies), are included. This means that administrative staff, technicians, maintenance staff, etc., when paid directly by the institution, are included. On the other hand, medical specialists are not all included as these are often self-employed or organised in partnerships per specialty.
- The increase between 1997 and 1998 is due to the inclusion of (out-patient) mental health care institutions that have been merged with mental hospitals into integrated mental hospital institutions. Moreover, the data now comprise annual averages and are no longer data per 31 December.
Break in time series:
- 2002, 2006 and 2012 due to changes in the source.
- 2014: due to obligatory reregistration the number of nurses and midwives (and physiotherapists) is lowered substantially.

Physicians employed in hospitals
Source of data: Statistics Netherlands.
- 2012 onwards: Data based on BIG Register (register of (para)medical professions); SSB database (micro-integrated database of Statistics Netherlands with data from the municipal register, tax register, social security, and business register).
- 2006-2011: Annual reports social account.

Estimation method:
- Since 1999: The figures according to the annual reports social account have been distributed among 1) physicians (based on the BIG register) 2) nurses and midwives (based on the BIG register) 3) Health care assistants (based on LFS estimates for ISCO 5132) 4) other employees (up till 2010 further distribution was possible to other health service providers and other staff using the annual reports social account).

Professional nurses and midwives employed in hospitals
Source of data: Statistics Netherlands.
- 2012 onwards: Data based on BIG Register (register of (para)medical professions); SSB database (micro-integrated database of Statistics Netherlands with data from the municipal register, tax register, social security, and business register).
- 2006-2011: Annual reports social account.

Coverage: No distinction could be made between qualified nurses, associate nurses and caring staff. Therefore, figures show total nurses and caring staff.

Estimation method:
- Since 1999: The figures according to the annual reports social account have been distributed among 1) physicians (based on the BIG register) 2) nurses and midwives (based on the BIG register) 3) Health care assistants (based on LFS estimates for ISCO 5132) 4) other employees (up till 2010 further distribution was possible to other health service providers and other staff using the annual reports social account).

Break in time series: 2014: due to obligatory reregistration the number of nurses and midwives (and physiotherapists) is lowered substantially.

Associate professional nurses employed in hospitals
Data not available. (No distinction could be made between qualified nurses, associate nurses and caring staff. Thus data are included with professional nurses and midwives).

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Statistics Netherlands.
- 2012 onwards: Data based on BIG Register (register of (para)medical professions); SSB database (micro-integrated database of Statistics Netherlands with data from the municipal register, tax register, social security, and business register).
- 2006-2011: Annual reports social account, combined with BIG register and SSB data.

Other health service providers employed in hospitals
Source of data: Statistics Netherlands.
- 2012 onwards: Data based on BIG Register (register of (para)medical professions); SSB database (micro-integrated database of Statistics Netherlands with data from the municipal register, tax register, social security, and business register).
- 2006-2011: Annual reports social account, combined with BIG register and SSB data.

Break in time series: since 2010 including other staff employed in hospitals.

Estimation method:
- Since 1999: The figures according to the annual reports social account have been distributed among 1) physicians (based on the BIG register) 2) nurses and midwives (based on the BIG register) 3) Health care assistants (based on LFS estimates for ISCO 5132) 4) other employees
(up till 2010 further distribution was possible to other health service providers and other staff using the annual reports social account).

Other staff employed in hospitals
Source of data: Statistics Netherlands.
- 2012: (Break in series) Data based on BIG Register (register of (para)medical professions); SSB database (micro-integrated database of Statistics Netherlands with data from the municipal register, tax register, social security, and business register).
- 2006 onwards: Annual reports social account, combined with BIG register and SSB data.

Coverage:
- “Other staff employed by hospitals” includes students in nursing and caring that work in the hospital. Since 2010, they are included in other health service providers.

Estimation method:
- Since 1999: The figures according to the annual reports social account have been distributed among 1) physicians (based on the BIG register) 2) nurses and midwives (based on the BIG register) 3) Health care assistants (based on LFS estimates for ISCO 5132) 4) other employees (up till 2010 further distribution was possible to other health service providers and other staff using the annual reports social account).

Notes updated: 2017

Austria

Total hospital employment:
Source of data: Austrian Federal Ministry of Health, Hospital Employment.
Reference period: 31 December.

Coverage:
- Head counts: Data are available only for physicians, nurses, midwives, assistants, and selected other health service providers employed by hospitals (HP.1).
- FTE: Total of FTE employed by hospitals (HP.1).
- FTE: Up to 2007, this figure is a combined figure of appr. 90 % FTE (in publicly financed hospitals) and 10 % head counts (in private for-profit hospitals; the latter have to report FTE since the year of 2008).

Physicians employed in hospitals
Source of data: Austrian Federal Ministry of Health, Hospital Statistics.
Reference period: 31 December.

Coverage:
- Head counts/FTE of physicians employed by hospitals (HP.1).
- FTE: Up to 2007, this figure is a combined figure of appr. 90 % FTE (in publicly financed hospitals) and 10 % head counts (in private for-profit hospitals; the latter have to report FTE since the year of 2008).

Professional nurses and midwives employed in hospitals
Source of data: Austrian Federal Ministry of Health, Hospital Statistics.
Reference period: 31 December.

Coverage:
- Head counts/FTE of professional nurses and midwives employed by hospitals (HP.1).
- FTE: Up to 2007, this figure is a combined figure of appr. 85 % FTE (in publicly financed hospitals) and 15 % head counts (in private for-profit hospitals; the latter have to report FTE since the year of 2008).

Associate professional nurses employed in hospitals
Source of data: Austrian Federal Ministry of Health, Hospital Statistics.
Reference period: 31 December.
Coverage:
- Head counts/FTE of associate professional nurses employed by hospitals (HP.1).
- FTE: Up to 2007, data are not available, but are included in the data on "Health care assistants". From 2008, both associate professional nurses and health care assistants are displayed separately, causing a break between 2007 and 2008 regarding health care assistants.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Austrian Federal Ministry of Health, Hospital Statistics.
Reference period: 31 December.
Coverage:
- Head counts/FTE of lower qualified nurses and assistants ("Pflegehilfsdienste und Sanitätshilfsdienste") employed by hospitals (HP.1).
Break in time series:
- FTE: Up to 2007, data include "Associate professional nurses". From 2008, both associate professional nurses and health care assistants are displayed separately, causing a break between 2007 and 2008 regarding health care assistants.
Other health service providers employed in hospitals
Source of data: Austrian Federal Ministry of Health, Hospital Statistics.
Reference period: 31 December.
Coverage and deviation from the definition:
- Head counts: Data include only physiotherapists, ergotherapists, dietitians, audiologists, speech therapists, laboratory assistants, and radiological assistants employed in hospitals (HP.1).
- FTE: Complete; data include the professions listed in “Head counts”, plus all other health professionals (e.g. pharmacists) employed in hospitals (HP.1).
Other staff employed in hospitals
Source of data: Austrian Federal Ministry of Health, Hospital Statistics.
Reference period: 31 December.
Coverage:
- Head count: Data not available.
- FTE: complete; data include administration and technical personnel employed in hospitals (HP.1).

Poland

Total hospital employment
Data not available.
Physicians employed in hospitals
Source of data: Ministry of Health.
Coverage:
- Due to the possibility of physicians working in several places, the data may be duplicated.
- Excludes physicians employed in hospitals founded by the Ministry of Interior and Administration.
Professional nurses and midwives employed in hospitals
Source of data: Ministry of Health.
Coverage:
- Due to the possibility of nurses and midwives working in several places, the data may be duplicated.
- Excludes nurses and midwives employed in hospitals founded by the Ministry of Interior and Administration.
Associate professional nurses employed in hospitals
Data not available.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Data not available.

Other health service providers employed in hospitals
Data not available.

Other staff employed in hospitals
Data not available.

Notes updated: 2017

Portugal

Total hospital employment
Source of data: National Statistical Office - Survey on Hospitals.
Reference period: 31st December.
Coverage:
- The Hospital Survey began in 1985. This survey covers the whole range of hospitals acting in Portugal: hospitals managed by the National Health Service (public hospitals with universal access), non-public state hospitals (military and prison) and private hospitals.
- Information on full time equivalents is not available.
Break in time series:
- In 1999, a methodological change occurred in this survey. Information regarding qualified nurses and midwives, associate professional nurses and caring staff became available from then on. Therefore, there is a break in the series “Other health professionals employed by hospital” in 1999.
- The category “health care assistants employed in hospital” includes nurse’s assistants and medical care assistants.

Physicians employed in hospitals
Source of data: National Statistical Office - Survey on Hospitals.
Reference period: 31st December.
Coverage:
- The Hospital Survey began in 1985. This survey covers the whole range of hospitals acting in Portugal: hospitals managed by the National Health Service (public hospitals with universal access), non-public state hospitals (military and prison) and private hospitals.
- Includes all physicians employed by hospital.
- Information on full time equivalents is not available.

Professional nurses and midwives employed in hospitals
Source of data: National Statistical Office - Survey on Hospitals.
Reference period: 31st December.
Coverage:
- The Hospital Survey began in 1985. This survey covers the whole range of hospitals acting in Portugal: hospitals managed by the National Health Service (public hospitals with universal access), non-public state hospitals (military and prison) and private hospitals.
- Includes all specialised nurses employed by hospital since 1999. (Before 1999, data are included in “Other health service providers employed in hospital”).
- Information on full time equivalents is not available.

Associate professional nurses employed in hospitals
Source of data: National Statistical Office - Hospitals Survey.
Reference period: 31st December.
- The category “Associate professional nurse” does not exist in Portugal.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Statistics Portugal - Hospitals Survey.  
Reference period: 31st December.  
Coverage:  
- The Hospital Survey began in 1985. This survey covers the whole range of hospitals acting in Portugal: hospitals managed by the National Health Service (public hospitals, with universal access), non-public state hospitals (military and prison) and private hospitals.  
- Includes all “other nursing staff” employed by hospitals since 1999. (Before 1999, data are included in “Other health service providers employed in hospital”).  
- Information on full time equivalents is not available.  
- Break in time series: In 2011, there has been a partial switch between the categories “health care assistants” and “other staff” due to a change in the Hospital Survey. Some professionals usually classified as “health care assistants employed in hospital” were classified as “other staff employed in hospital”.

Other health service providers employed in hospitals  
Source of data: National Statistical Office - Hospitals Survey.  
Reference period: 31st December.  
Coverage:  
- The Hospital Survey began in 1985. This survey covers the whole range of hospitals acting in Portugal: hospitals managed by the National Health Service (public hospitals with universal access), non-public state hospitals (military and prison) and private hospitals.  
- Includes “technical diagnosis and therapeutic staff” and “senior health technician staff”.  
- Information on full time equivalents is not available.  
Break in time series:  
- In 1999, a methodological change occurred in this survey. Information regarding qualified nurses and midwives, associate professional nurses and caring staff became available from then on. Therefore, there is a break in the series “Other health professionals employed by hospital” in 1999.

Other staff employed in hospitals  
Source of data: Statistics Portugal - Hospitals Survey.  
Reference period: 31st December.  
Coverage:  
- The Hospital Survey began in 1985. This survey covers the whole range of hospitals acting in Portugal: hospitals managed by the National Health Service (public hospitals with universal access), non-public state hospitals (military and prison) and private hospitals.  
- Includes “other senior technician staff”, “administration staff”, “administrative and technical-professional staff”, “auxiliary staff of medical action”, and “other staff”.  
- Information on full time equivalents is not available.  

Notes updated: 2017

Romania

Total hospital employment
Source of data:  
2007: National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS.  
Reference period: data as of 31st December.  
Coverage:  
For the period 2000-2006 the data cover only Ministry of Health network.  
For 2007 Data cover public and private sector.  
Physicians employed in hospitals
Source of data:
2007: National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS.
Reference period: data as of 31st December.
Coverage:
For the period 2000-2006 the data cover only Ministry of Health network.
For 2007 data cover public and private sector.
The number of physicians in hospitals is oscillating because some of these doctors are registered on integrated ambulatory hospital. Also, in hospitals are employed resident physicians whose number increases in some years, and decreases in other years. Until 2010 the data for the private sector are collected centrally, from administrative sources (data from the Ministry of Health), but the some of the private hospitals refused to report statistical data to the Ministry of Health. Since 2010, NIS collected data through a Web application directly from hospitals. In 2010 several private hospitals were reported.

Professional nurses and midwives employed in hospitals
Source of data:
National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS.
Reference period: data as of 31st December.
Coverage:
Data cover public and private sector.
Since 2007, the first series of nurses ISCED 5 were graduated. The trend of increasing of number of professional nurses remains because new generations of nurses are graduated from university.

Associate professional nurses employed in hospitals
Source of data:
2007: National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS.
Reference period: data as of 31st December.
Coverage:
For the period 2000-2006 the data cover only Ministry of Health network.
For 2007 Data cover public and private sector.
Data from 2007 till 2009 refers to ancillary medical staff.
Since 2010 the data refers only to nurses.
The ancillary medical staff includes: medical assistants, pharmacy assistants, nurses, infant care personnel, sanitary technicians, laboratory assistants, registering clerks, masseur, autopsy assistant and statistician specialized in health statistics, medical physical trainer, ergo therapy trainer and other categories of medical staff with equivalent upper secondary level of education.
The data include also associated nurses from dentists units and pharmaceutical units. It would be specified that for midwives and nurses the level of education is ISCED 3 or 4 and ISCO codes are 3231 and 3232. Until 2007 ancillary medical staff working in administration, research and in other posts that exclude direct contact with patients could not be totally excluded.
Number of nurses declined in 2010 because in the period 2007-2009 data refers to ancillary medical staff (see definition above)
Break in the series: 2007, 2010

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data:
2007: National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS
Reference period: data as of 31st December.
Coverage:
For the period 2000-2006 the data cover only Ministry of Health network.
For 2007 data cover public and private sector.
In health care assistants employed in hospitals was included the health care personnel (another then nurses and midwives): infant care personnel, sanitary technicians, laboratory assistants, registering clerks, masseur, autopsy assistant and statistician specialised in health statistics, medical physical trainer, ergo therapy trainer and other categories of medical staff with equivalent upper secondary level of education.

Other health service providers employed in hospitals
Source of data:
2007: National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS.
Reference period: data as of 31st December.
Coverage:
For the period 2000-2006 the data cover only Ministry of Health network.
For 2007 Data cover public and private sector.
Data from 2007 till 2009 refer to dentists, pharmacists, physiotherapists and other sanitary staff with high education level (biologists, chemists, psychologists etc).
Since 2010 data refers to: dentists, pharmacists, physiotherapists and other sanitary staff with high education level (biologists, chemists, psychologists etc) and other than nurses and midwives sanitary staff (infant care personnel, sanitary technicians, laboratory assistants, registering clerks, masseur etc.)
The number of physicians in hospitals is oscillating because some of these doctors are registered on integrated ambulatory hospital. Also, in hospitals are employed resident physicians whose number increases in some years and decreases in other years.
Until 2010 the data for the private sector are collected centrally, from administrative sources (data from the Ministry of Health), but some of the private hospitals refused to report statistical data to the Ministry of Health.
Since 2010, NIS collected data through a Web application directly from hospitals. In 2010 several private hospitals were reported.

Other staff employed in hospitals
Source of data:
2007: National Institute of Statistics, Activity of Sanitary Units – annual survey performed by NIS.
Reference period: data as of 31st December.
Coverage:
For the period 2000-2006 the data cover only Ministry of Health network.
For 2007 data cover public and private sector.
Slovenia

Total hospital employment
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.

Physicians employed in hospitals
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.

Professional nurses and midwives employed in hospitals
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.

Associate professional nurses employed in hospitals
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.
Break in time series: 2012.
- Until 2012: health care assistants who were individually registered in National Health Care Providers Database.
- From 2012: health care assistants who were individually registered in National Health Care Providers Database and the number of health care assistants which are reported only as aggregated data from health care providers to the National Health Care Providers Database. Health care providers report following categories of employed staff as aggregated data:
  • health care workers with less than 4 years of secondary education (includes predominantly health care assistants) and
  • non-health care workers with less than university education.

Other health service providers employed in hospitals
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.

Other staff employed in hospitals
Source of data: National Institute of Public Health, Slovenia, National Health Care Providers Database. With this database, data on hours worked (FTE) and jobs (number of contracts) were not available.
Reference period: 31st December.
Break in time series: 2012.
- Until 2012: staff who was individually registered in National Health Care Providers Database.
- From 2012: staff who was individually registered in National Health Care Providers Database and the number of other staff which are reported only as aggregated data from health care providers to the National Health Care Providers Database.

Health care providers report following categories of employed staff as aggregated data:
• health care workers with less than 4 years of secondary education (includes predominantly health care assistants) and
• non-health care workers with less than university education.

Notes updated: 2017

Slovakia

Total hospital employment
Source of data: National Health Information Center.
- “Annual report S (MZ SR) 1 – 01 on network of health care providers” for data up to 2008.
- “Report on network of health care providers” since 2009.
Reference period: 31st December.
Coverage:
- Data are available for FTE hospital employment in Hospitals - HP1 (according to the recommendations and definitions following the SHA version 1.0.) in the territory of the Slovak Republic (i.e. general hospitals, specialty hospitals, sanatoriums - i.e. hospitals providing long-term care for the chronically ill and hospitals providing rehabilitation and related services to physically challenged or disabled people).
- There are no data available for head count.
- Total hospital employment includes only health care workers. No data exist regarding other staff.
Break in time series:

Physicians employed in hospitals
Source of data: National Health Information Center.
- “Annual report S (MZ SR) 1 – 01 on network of health care providers” for data up to 2008.
- “Report on network of health care providers” since 2009.
Reference period: 31st December.
Coverage:
- Data are available for FTE hospital employment in Hospitals - HP1 (according to the recommendations and definitions following the SHA version 1.0.) in the territory of the Slovak Republic (i.e. general hospitals, specialty hospitals, sanatoriums - i.e. hospitals providing long-term care for chronically ill and hospitals providing rehabilitation and related services to physically challenged or disabled people).
- There are no data available for head count.
Break in time series:
- 2009: Data source changed from “Annual report S (MZ SR) 1 – 01 on network of health care providers” for years 2008 and earlier to “Report on network of health care providers”.

Professional nurses and midwives employed in hospitals
Source of data: National Health Information Center.
- “Annual report S (MZ SR) 1 – 01 on network of health care providers” for data up to 2008.
- “Report on network of health care providers” since 2009.
Reference period: 31st December.
Coverage:
- Data are available for FTE hospital employment in Hospitals - HP1 (according to the recommendations and definitions following the SHA version 1.0.) in the territory of the Slovak Republic (i.e. general hospitals, specialty hospitals, sanatoriums - i.e. hospitals providing long-term care for the chronically ill and hospitals providing rehabilitation and related services to physically challenged or disabled people).
- There are no data available for head count.

Break in time series:
- 2009: Data source changed from “Annual report S (MZ SR) 1 – 01 on network of health care providers” for years 2008 and earlier to “Report on network of health care providers”.

Associate professional nurses employed in hospitals
The category "Associate professional nurse” does not exist in the Slovak Republic. All nurses are classified as Professional nurses.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: National Health Information Center.
- “Annual report S (MZ SR) 1 – 01 on network of health care providers” for data up to 2008.
- “Report on network of health care providers” since 2009.
Reference period: 31st December.

Coverage:
- Data are available for FTE hospital employment in Hospitals - HP1 (according to the recommendations and definitions following the SHA version 1.0.) in the territory of the Slovak Republic (i.e. general hospitals, specialty hospitals, sanatoriums - i.e. hospitals providing long-term care for the chronically ill and hospitals providing rehabilitation and related services to physically challenged or disabled people).
- There are no data available for head count.

Break in time series:
- 2008: Physiotherapists are included (only for this year).
- 2009: Data source changed from “Annual report S (MZ SR) 1 – 01 on network of health care providers” for years 2008 and earlier and “Report on network of health care providers”.

Other health service providers employed in hospitals
Source of data: National Health Information Center.
- “Annual report S (MZ SR) 1 – 01 on network of health care providers” for data up to 2008.
- “Report on network of health care providers” since 2009.
Reference period: 31st December.

Coverage:
- Data are available for FTE hospital employment in Hospitals - HP1 (according to the recommendations and definitions following the SHA version 1.0.) in the territory of the Slovak Republic (i.e. general hospitals, specialty hospitals, sanatoriums - i.e. hospitals providing long-term care for the chronically ill and hospitals providing rehabilitation and related services to physically challenged or disabled people).
- There are no data available for head count.
- In year 2008, physiotherapists are excluded and are included in the indicator Health care assistants employed in hospitals.

Break in time series:
- 2008: Physiotherapists are excluded and are included in the indicator Health care assistants employed in hospitals.
- 2009: Data source changed from “Annual report S (MZ SR) 1 – 01 on network of health care providers” for years 2008 and earlier and “Report on network of health care providers”.

Other staff employed in hospitals
Data not available.
Finland

Total hospital employment
Source of data: THL Health Personnel Statistics; National Institute for Health and Welfare. The data are based on the Employment Register kept by Statistics Finland. Data on physicians employed in hospital is taken from the same source as all other statistics on physicians (Finnish Medical Association). This causes a minor (2%) discrepancy in the total number. Reference period: Data refer to information for the whole year.
Break in time series: 2007, due to a change in the classification of economic activities (excluding physicians, for whom the data are taken from a different source with a break in time series in 2010).

Physicians employed in hospitals
Reference period: Mid-March.

Professional nurses and midwives employed in hospitals
Source of data: THL Health Personnel Statistics; National Institute for Health and Welfare. The data are based on the Employment Register kept by Statistics Finland.
Reference period: Data refer to information for the whole year.
Coverage: Professionals working in hospitals listed by their primary employment.
Break in time series: 2007 due to a change in the classification of economic activities.

Associate professional nurses employed in hospitals
Source of data: THL Health Personnel Statistics; National Institute for Health and Welfare. The data are based on the Employment Register kept by Statistics Finland.
Reference period: Data refer to information for the whole year.
Coverage: Professionals working in hospitals listed by their primary employment.
Break in time series: 2007 due to a change in the classification of economic activities.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: THL Health Personnel Statistics; National Institute for Health and Welfare. The data are based on the Employment Register kept by Statistics Finland.
Reference period: Data refer to information for the whole year.
Coverage: Professionals working in hospitals listed by their primary employment.
Break in time series: 2007 due to a change in the classification of economic activities.

Other health service providers employed in hospitals
Source of data: THL Health Personnel Statistics; National Institute for Health and Welfare. The data are based on the Employment Register kept by Statistics Finland.
Reference period: Data refer to information for the whole year.
Coverage: Data include caring personnel active in health care in Finland.
Break in time series: 2007 due to a change in the classification of economic activities.

Other staff employed in hospitals
Source of data: THL Health Personnel Statistics; National Institute for Health and Welfare. The data are based on the Employment Register kept by Statistics Finland.
Reference period: Data refer to information for the whole year.
Coverage: Professionals working in hospitals listed by their primary employment.
Break in time series: 2007 due to a change in the classification of economic activities.

Notes updated: 2017
Sweden
Total hospital employment
Data not available.
Physicians employed in hospitals
Data not available.
Professional nurses and midwives employed in hospitals
Data not available.
Associate professional nurses employed in hospitals
Data not available.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Data not available.
Other health service providers employed in hospitals
Data not available.
Other staff employed in hospitals
Data not available.
Notes updated: 2017

United Kingdom
Total hospital employment
Source of data: Office for National Statistics.
Reference period: LFS data are for April to June of each year to fulfill Eurostat’s requirement that all countries in the European Union have a Labour Force Survey based on all calendar quarters.
Coverage: Number of people employed (headcount) in the UK in both public and private sectors in either a main or second job in UK SIC (92) sub-class 85.11 'hospital activities' (equivalent to ISIC Rev.3 class 8511).
Estimation method (2009-2013):
- Data may be an underestimate of true figures due to problems with the current coding methodology; however, these are the only figures currently available.
- Previous time series has been deleted due to inaccuracies discovered when the coding methodology was recently changed. The previous time series included staff working in residential care facilities in the figures and was consequently inaccurate.
Estimation method: 2014 onwards: the Office of National Statistics (ONS) re-weighted the LFS data using revised UK level population estimates consistent with the 2011 census and population projections.
Physicians employed in hospitals
Data not available.
Professional nurses and midwives employed in hospitals
Data not available.
Associate professional nurses employed in hospitals
Data not available.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Data not available.
Other health service providers employed in hospitals
Data not available.
Other staff employed in hospitals
Data not available.
Notes updated: 2017
Iceland

Total hospital employment
Source of data: The Ministry of Finance and Economic Affairs.
Reference period: December each year.
Coverage: Data exclude service contracts with non-employed health professionals who treat hospital patients (head counts). Data as of 2007 revised in 2016. Data refers to persons employed in hospitals referring to health care facilities with 24-hour access to a hospital physician.

Physicians employed in hospitals
Source of data: The Ministry of Finance and Economic Affairs.
Reference period: December each year.
Coverage: Data as of 2007 revised in 2016. Data refers to physicians employed in hospitals referring to health care facilities with 24-hour access to a hospital physician.

Professional nurses and midwives employed in hospitals
Source of data: The Ministry of Finance and Economic Affairs.
Reference period: December each year.
Coverage: Data as of 2007 revised in 2016. Data refers to professional nurses and midwives employed in hospitals referring to health care facilities with 24-hour access to a hospital physician.

Associate professional nurses employed in hospitals
Source of data: The Ministry of Finance and Economic Affairs.
Reference period: December each year.
Coverage: Data as of 2007 revised in 2016. Data refers to associate professional nurses/practical nurses employed in hospitals referring to health care facilities with 24-hour access to a hospital physician.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Data not available. Health care assistants are included in “Other staff employed in hospitals”.

Other health service providers employed in hospitals
Source of data: The Ministry of Finance.
Reference period: December each year.

Other staff employed in hospitals
Source of data: The Ministry of Finance.
Reference period: December each year.
Coverage: Data as of 2007 revised in 2016. All others are included except physicians, professional nurses, midwives, associate nurses, and other health service providers employed in hospitals referring to health care facilities with 24-hour access to a hospital physician.

Notes updated: 2017

Liechtenstein

Total hospital employment
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%

Physicians employed in hospitals
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%

Professional nurses and midwives employed in hospitals
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%

Associate professional nurses employed in hospitals
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%
Other health service providers employed in hospitals
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%
Other staff employed in hospitals
Source of data: data report from hospital, new data from private hospital from 2010 on.
Coverage: 100%
Notes updated: 2017

Norway
Total hospital employment
Source of data: Statistics Norway; Register-based statistics on employment of health-care personnel.
Reference period: 3rd week of November.
Deviation from the definition: Data refer to economically active professionals.
Coverage:
The figures provided give the number of practising personnel within HP1. There is no guarantee that these professionals actually work in patient care as data refer to education the individuals have rather than the job they hold within the HP structure.
- The health sector in Norway underwent a large reorganisation in 2001. Figures are therefore provided from 2002.
As from 2015, the register-based employment statistics will be based on a new data source for employees. Until the end of 2014, the main data source was The Central Register on Employers and Employees (EE register), produced by the Norwegian Labour and Welfare Organisation (NAV). In 2015, this reporting to NAV was coordinated with the reporting of earnings and personnel data to the Tax Administration and Statistics Norway. This common reporting system is called “a-ordningen” (the a-system).
Physicians employed in hospitals
Source of data: Statistics Norway; Register-based statistics on employment of health-care personnel.
Reference period: 3rd week of November.
Deviation from the definition: Data refer to economically active professionals.
Coverage:
- The figures provided give the number of practising personnel within HP1. There is no guarantee that these professionals actually work in patient care as data refer to education the individuals have rather than the job they hold within the HP structure.
- The health sector in Norway underwent a large reorganisation in 2001. Figures are therefore provided from 2002.
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Professional nurses and midwives employed in hospitals
Source of data: Statistics Norway; Register-based statistics on employment of health-care personnel.
Reference period: 3rd week of November.
Deviation from the definition: Data refer to economically active professionals.
Coverage:
- The figures provided give the number of practising personnel within HP1. There is no guarantee that these professionals actually work in patient care as data refer to education the individuals have rather than the job they hold within the HP structure.
- The health sector in Norway underwent a large reorganisation in 2001. Figures are therefore provided from 2002.

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Associate professional nurses employed in hospitals
Norway has no occupation corresponding to ISCO-08 code 3221.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: Statistics Norway; Register-based statistics on employment of health-care personnel.
Reference period: 3rd week of November.
Deviation from the definition: Data refer to economically active professionals.
Coverage:
- The figures provided give the number of practising personnel within HP1. There is no guarantee that these professionals actually work in patient care as data refer to education the individuals have rather than the job they hold within the HP structure.
- The health sector in Norway underwent a large reorganisation in 2001. Figures are therefore provided from 2002.

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Other health service providers employed in hospitals
Source of data: Statistics Norway; Register-based statistics on employment of health-care personnel.
Reference period: 3rd week of November.
Deviation from the definition: Data refer to economically active professionals.
Coverage:
- The figures provided give the number of practising personnel within HP1. There is no guarantee that these professionals actually work in patient care as data refer to education the individuals have rather than the job they hold within the HP structure.
- The health sector in Norway underwent a large reorganisation in 2001. Figures are therefore provided from 2002.
As from 2015, the register-based employment statistics will be based on a new data source for employees. Until the end of 2014, the main data source was The Central Register on Employers and Employees (EE register), produced by the Norwegian Labour and Welfare Organisation (NAV). In 2015, this reporting to NAV was coordinated with the reporting of earnings and personnel data to the Tax Administration and Statistics Norway. This common reporting system is called “a-ordningen” (the a-system).

Other staff employed in hospitals
Source of data: Statistics Norway; Register-based statistics on employment of health-care personnel.
Reference period: 3rd week of November.
Deviation from the definition: Data refer to economically active professionals.
Coverage:
- The figures provided give the number of practising personnel within HP1. There is no guarantee that these professionals actually work in patient care as data refer to education the individuals have rather than the job they hold within the HP structure.
- The health sector in Norway underwent a large reorganisation in 2001. Figures are therefore provided from 2002.

Switzerland
Total hospital employment
Source of data: FSO Federal Statistical Office, Neuchâtel; hospitals statistics; yearly census.
Deviation from definition: Self-employed persons (mostly physicians) are not included.
Estimation method: Until 2009, the hospital employment estimate was made with data on professions from 75% of hospitals.
Break in time series: Hospital statistics have been revised (data year 2010); all categories can be identified; FTE based on yearly average.
Note: The method used for FTE calculation is based on detailed data on contractual working hours.

Physicians employed in hospitals
Source of data: FSO Federal Statistical Office, Neuchâtel; hospital statistics; yearly census.
Coverage: There are a large number of self-employed physicians working in hospitals without being employed, leading to a severe underestimation of medical attendance in hospitals.
Estimation method: Until 2009, the hospital employment estimate was made with data on professions from 75% of hospitals.
Break in time series: Since 2010, hospital statistics have been revised; no estimation needed.

Professional nurses and midwives employed in hospitals
Source of data: FSO Federal Statistical Office, Neuchâtel; hospital statistics; yearly census.
Estimation method: Until 2009, the hospital employment estimate was made with data on professions from 75% of hospitals.
Break in time series: Since 2010, hospital statistics have been revised; no estimation needed.

Associate professional nurses employed in hospitals
Source of data: FSO Federal Statistical Office, Neuchâtel; hospital statistics; yearly census.
Estimation method: Until 2009, the hospital employment estimate was made with data on professions from 75% of hospitals.
Break in time series: Since 2010, hospital statistics have been revised; no estimation needed.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Source of data: FSO Federal Statistical Office, Neuchâtel; hospital statistics; yearly census.
Estimation method: Until 2009, the hospital employment estimate was made with data on professions from 75% of hospitals.
Break in time series: Since 2010, hospital statistics have been revised; no estimation needed.

Other health service providers employed in hospitals
Source of data: FSO Federal Statistical Office, Neuchâtel; hospital statistics; yearly census.

Other staff employed in hospitals
Source of data: FSO Federal Statistical Office, Neuchâtel; hospital statistics; yearly census.

Notes updated: 2017

Montenegro
Total hospital employment
Source of data: The source for all data submitted is the Institute of Public Health. Some additional information can be found in Health Statistical Yearbooks available at [http://www.ijzcg.me/](http://www.ijzcg.me/)
Reference period: December 31st.
Note: There is no data available for FTE.

Physicians employed in hospitals
Data not available.

Professional nurses and midwives employed in hospitals
At the moment, practicing and professionally active nurses and midwives cannot be split.

Associate professional nurses employed in hospitals
The category does not exist.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
The category does not exist.

Other health service providers employed in hospitals
Data not available.

Other staff employed in hospitals
Data not available.

Notes updated: 2017

former Yugoslavia Republic of Macedonia
Total hospital employment
Reference period: 31st December
Methodological change in inclusion and exclusion criteria was introduced in line with EUROSTAT in 2004-2007.

Physicians employed in hospitals
Reference period: 31st December
Break in time series:
- 2007: Methodological change in inclusion and exclusion criteria was introduced in line with EUROSTAT in 2007.

Professional nurses and midwives employed in hospitals
Reference period: 31st December
Break in time series:
- 2004: Methodological change in inclusion and exclusion criteria was introduced in line with EUROSTAT in 2004.

Associate professional nurses employed in hospitals
The category “Associated professional nurse” does not exist.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Reference period: 31st December
Break in time series:
- 2007: Methodological change in inclusion and exclusion criteria was introduced in line with EUROSTAT in 2007.

Other health service providers employed in hospitals
Reference period: 31st December
Break in time series:
- 2004: Methodological change in inclusion and exclusion criteria was introduced in line with EUROSTAT in 2004.

Notes updated: 2017

Albania
Total hospital employment
Data not available.
Physicians employed in hospitals
Data not available.
Professional nurses and midwives employed in hospitals
Data not available.
Associate professional nurses employed in hospitals
Data not available.
Health care assistants employed in hospitals (ISCO-08 code: 5321)
Data not available.
Other health service providers employed in hospitals
Data not available.
Other staff employed in hospitals
Data not available.
Notes updated: 2017

Serbia
Total hospital employment
Coverage: Data for Kosovo-Metohija province are not included in the coverage of data for the Republic of Serbia. Data from health institutions under other ministries (military services, prisons, social services) than the Ministry of Health are not included. Data from private health sector are not included.
Deviation from the definition: The method 3) For countries which do not have any detailed information on working hours has been used to convert head counts into FTE data (a worker with full-time employment contract is counted as 1 FTE, while others with part-time contracts are counted as 0.5 FTE).

Physicians employed in hospitals
Coverage: Data for Kosovo-Metohija province are not included in the coverage of data for the Republic of Serbia. Data from health institutions under other ministries (military services, prisons, social services) than the Ministry of Health are not included. Data from private health sector are not included.

Deviation from the definition: The method 3) For countries which do not have any detailed information on working hours has been used to convert head counts into FTE data.

Professional nurses and midwives employed in hospitals
Coverage: Data for Kosovo-Metohija province are not included in the coverage of data for the Republic of Serbia. Data from health institutions under other ministries (military services, prisons, social services) than the Ministry of Health are not included. Data from private health sector are not included.

Deviation from the definition: The method 3) For countries which do not have any detailed information on working hours has been used to convert head counts into FTE data.

Associate professional nurses employed in hospitals
Coverage: Data for Kosovo-Metohija province are not included in the coverage of data for the Republic of Serbia. Data from health institutions under other ministries (military services, prisons, social services) than the Ministry of Health are not included. Data from private health sector are not included.

Deviation from the definition: The method 3) For countries which do not have any detailed information on working hours has been used to convert head counts into FTE data.

Health care assistants employed in hospitals (ISCO-08 code: 5321)
Coverage: Data for Kosovo-Metohija province are not included in the coverage of data for the Republic of Serbia. Data from health institutions under other ministries (military services, prisons, social services) than the Ministry of Health are not included. Data from private health sector are not included.

Deviation from the definition: The method 3) For countries which do not have any detailed information on working hours has been used to convert head counts into FTE data.

Other health service providers employed in hospitals
Coverage: Data for Kosovo-Metohija province are not included in the coverage of data for the Republic of Serbia. Data from health institutions under other ministries (military services, prisons, social services) than the Ministry of Health are not included. Data from private health sector are not included.

Deviation from the definition: The method 3) For countries which do not have any detailed information on working hours has been used to convert head counts into FTE data.

Other staff employed in hospitals
Turkey

**Total hospital employment**

Source of data: General Directorate for Health Services, Ministry of Health.

Coverage:
- Physicians, nurses and midwives, other health service providers, and other employees employed by hospitals are included in total hospital employment.
- Total hospital employment is available from 2011 onwards because the numbers of other staff employed in hospital are missing before then.

**Physicians employed in hospitals**

Source of data: General Directorate for Health Services, Ministry of Health.

Coverage:
- Physicians in the MoH, universities, private and other sector (other public establishments, local administrations and MoND-affiliated facilities) are included.
- Physicians acting as managers in the MoH, University and private sector are included.

Break in time series:
- MoND-affiliated facilities are included since 2012.

**Professional nurses and midwives employed in hospitals**

Source of data: General Directorate for Health Services, Ministry of Health.

Coverage:
- Professional nurses and midwives employed by hospitals cover those in the MoH, universities, private and other sector (other public establishments, local administrations and MoND-affiliated facilities) are included. Data cover professional nurses and midwives acting as managers in the MoH, universities, and the private sector.

Break in time series:
- MoND-affiliated facilities are included since 2012.

**Associate professional nurses employed in hospitals**

Data not available.

**Health care assistants employed in hospitals (ISCO-08 code: 5321)**

Data not available.

**Other health service providers employed in hospitals**

Source of data: General Directorate for Health Services, Ministry of Health.

Coverage:
- Other health service providers include: Surgery Technician, Anesthesia Technician, Biologist, Environmental Health Technician, Child Development Specialist, Dental Technician, Dietitian, Physical Therapy Technician, Physiotherapist, Emergency and First Aid Technician, Heart-Lung Pump Operation Technician, Laboratory Technician, Audiologist, Audiometric Technician, Orthopedic Technician, Pathological Anatomy Technician, Perfusion Pump Technician, prosthetic Technician, Psychologist, X-ray Technician, Health Physician, Health Officer of the war, Health Technician, Cytopathologist, Social Worker, Medical Secretary, Medical Technologist, Public Health Technician.
- Other health service providers employed in hospitals cover those in the MoH, universities, private and other sector (other public establishments, local administrations and MoND-affiliated facilities).
- Data also include dentists and pharmacists working in public hospitals. For the private sector, data on dentists and pharmacists are available but there is no possibility to disaggregate salaried professionals from self-employed professionals. Hence dentists and pharmacists working in the private sector are excluded.

Break in time series:
- MoND-affiliated facilities are included since 2012.

*Notes updated: 2017*