



## Health accounts

H\_ZDR.S/KI\_A\_EN\_2022\_1

### Reference Metadata in ESMS 2.0 structure

<b>1</b>	<b>Contact</b>
<b>1.1</b>	<b>Contact organisation</b>
State Statistical Office	
<b>1.2</b>	<b>Contact organisation unit</b>
Department for satellite accounts	
<b>1.3</b>	<b>Contact name</b>
Vilma Gudeska	
<b>1.4</b>	<b>Contact person function</b>
Adviser	
<b>1.5</b>	<b>Contact mail address</b>
Dame Gruev 4, 1000 Skopje, Republic of North Macedonia.	
<b>1.6</b>	<b>Contact email address</b>
vilma.gudeska@stat.gov.mk	
<b>1.7</b>	<b>Contact phone number</b>
00389 2 3295 780	
<b>1.8</b>	<b>Contact fax number</b>
00389 2 3111 336	
<b>2</b>	<b>Metadata update</b>
<b>2.1</b>	<b>Metadata last certified</b>
13/05/2025	
<b>2.2</b>	<b>Metadata last posted</b>
13/05/2025	
<b>2.3</b>	<b>Metadata last update</b>
13/05/2025	
<b>3</b>	<b>Statistical presentation</b>
<b>3.1</b>	<b>Data description</b>
<ul style="list-style-type: none"><li>- Current health expenditures by Health care functions and Financing schemes</li><li>- Current health expenditures by Health care functions and Health care providers</li><li>- Current health expenditures by Health care providers and Financing schemes</li></ul>	
<b>3.2</b>	<b>Classification system</b>
<ul style="list-style-type: none"><li>- ICHA-HP Classification of healthcare providers</li><li>- ICHA-HP Classification of healthcare providers</li><li>- ICHA-HF Classification of health care financiers</li></ul>	
<b>3.3</b>	<b>Sector coverage</b>
Cods of the classifications ICHA-HC, ICHA-HP amd ICHA-HF,	

<a href="https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm">https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm</a>	
<b>3.4</b>	<b>Statistical concepts and definitions</b>
The concepts and definitions used in the health accounts are in accordance with:	
A System of Health Accounts, 2011 (A System of Health Accounts, 2011), established by OECD, Eurostat and WHO <a href="https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm">https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm</a>	
Basic categories that are calculated in health accounts are:	
- Costs incurred in healthcare according to ICHA (International Classification of Health Accounts)	
<ul style="list-style-type: none"> <li>• Health care functions (functional classification) (ICHA-HC),</li> <li>• Health Care Providers (ICHA-HP) and</li> <li>• Sources of Health Care Financing (ICHA-HF).</li> </ul>	
<b>3.5</b>	<b>Statistical unit</b>
Health business entities.	
<b>3.6</b>	<b>Statistical population</b>
All health business entities.	
<b>3.7</b>	<b>Reference area</b>
- NTES 1 and 2 (Republic of North Macedonia)	
<b>3.8</b>	<b>Time coverage</b>
From 2017 year to 2022 year, definitive data.	
<b>3.9</b>	<b>Base period</b>
Not applicable.	
<b>4</b>	<b>Unit of measure</b>
Million denars	
<b>5</b>	<b>Reference period</b>
Year (calendar year from 01.01. to 31.12.)	
<b>6</b>	<b>Institutional mandate</b>
<b>6.1</b>	<b>Legal acts and other agreements</b>
NATIONAL LEGISLATION Law on State Statistics ("Official Gazette of the Republic of Macedonia" No. 54/1997, 21/2007, 51/2011, 104/2013, 42/2014, 192/2015, 27/16, 83/18, 220/18 and "Official Gazette of the Republic of North Macedonia" 31/20 ) <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> Programme of Statistical Surveys 2023-2027 ("Official Gazette of the Republic of North Macedonia" No. 29/23.) <a href="https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/">https://www.stat.mk/en/about-us/legal-acts/program-for-statistical-surveys/</a> .	
<b>6.2</b>	<b>Data sharing</b>
The data is not sent to Eurostat yet.	
<b>7</b>	<b>Confidentiality</b>
<b>7.1</b>	<b>Confidentiality - policy</b>
1. The protection of individual data is regulated by the Law on State Statistics ( <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> ). 2. The basic principles and activities undertaken to ensure data confidentiality are described in the Policy on Statistical Confidentiality ( <a href="https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/">https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/</a> ).	
<b>7.2</b>	<b>Confidentiality - data treatment</b>
Pursuant to Article 38 of the Law on State Statistics ( <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> ) and the Policy on Statistical Confidentiality ( <a href="https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/">https://www.stat.mk/en/about-us/policies-and-strategies/policy-on-statistical-confidentiality/</a> ), individual data are not published.	
<b>8</b>	<b>Release policy</b>
<b>8.1</b>	<b>Release calendar</b>
The date of data publication is determined in the Advance Release Calendar, which is updated quarterly.	
<b>8.2</b>	<b>Release calendar access</b>
<a href="https://www.stat.mk/en/publishing-calendar/">https://www.stat.mk/en/publishing-calendar/</a>	
<b>8.3</b>	<b>User access</b>

All users have equal access to statistics at the same time: this means that the publication dates are announced in advance and no user has access to official statistics before they are published. Statistical data are first published in the "News Releases" edition on the website of the State Statistical Office at 12:00.	
<b>9</b>	<b>Frequency of dissemination</b>
Annual	
<b>10</b>	<b>Accessibility and clarity</b>
<b>10.1</b>	<b>News release</b>
In accordance with the Dissemination Strategy ( <a href="https://www.stat.mk/en/about-us/policies-and-strategies/dissemination-strategy/">https://www.stat.mk/en/about-us/policies-and-strategies/dissemination-strategy/</a> ), news releases are published and they are available on the website of the SSO in the section: "News Releases".  Health accounts 2022, <a href="https://www.stat.mk/en/stat/population-and-living-conditions/health/health-accounts/health-accounts-2022/">https://www.stat.mk/en/stat/population-and-living-conditions/health/health-accounts/health-accounts-2022/</a>	
<b>10.2</b>	<b>Publications</b>
Not applicable.	
<b>10.3</b>	<b>On-line database</b>
<a href="https://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/MakStat_ZdrastveniSmetki/125">https://makstat.stat.gov.mk/PXWeb/pxweb/en/MakStat/MakStat_ZdrastveniSmetki/125</a>	
<b>10.4</b>	<b>Micro-data access</b>
The use of microdata by external users is possible only for research purposes and is done in accordance with the Law on State Statistics (Article 41, Article 42 and Article 43). Access to anonymised microdata is defined by an internal procedure of the State Statistical Office "Access to anonymised microdata for scientific research purposes" ( <a href="https://www.stat.mk/en/about-us/procedures/rules-for-access-to-anonymised-microdata-for-research-purposes/">https://www.stat.mk/en/about-us/procedures/rules-for-access-to-anonymised-microdata-for-research-purposes/</a> ).	
<b>10.5</b>	<b>Other</b>
Not applicable.	
<b>10.6</b>	<b>Documentation on methodology</b>
Methodological explanation, national, <a href="https://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=144&amp;rbrObl=40">https://www.stat.gov.mk/MetodoloskiObjasSoop_en.aspx?id=144&amp;rbrObl=40</a>  <b>A System of health accounts, 2011 - SHA</b> , accepted by the OECD, Eurostat and WHO,  <a href="https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm">https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm</a>  European system of accounts ESA 2010, <a href="https://ec.europa.eu/eurostat/documents/3859598/5925693/KS-02-13-269-EN.PDF/44cd9d01-bc64-40e5-bd40-d17df0c69334">https://ec.europa.eu/eurostat/documents/3859598/5925693/KS-02-13-269-EN.PDF/44cd9d01-bc64-40e5-bd40-d17df0c69334</a>	
<b>10.7</b>	<b>Quality documentation</b>
<a href="https://ec.europa.eu/eurostat">https://ec.europa.eu/eurostat</a>	
<b>11</b>	<b>Quality management</b>
<b>11.1</b>	<b>Quality assurance</b>
The quality of the processes and products in the State Statistical Office is ensured by adhering to the European Statistics Code of Practice ( <a href="https://www.stat.mk/en/about-us/quality/code-of-practice/">https://www.stat.mk/en/about-us/quality/code-of-practice/</a> ) and the Quality Assurance Framework within the European Statistical System (ESS Quality Assurance Framework – <a href="https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V2.0-final.pdf">https://ec.europa.eu/eurostat/documents/64157/4392716/ESS-QAF-V2.0-final.pdf</a> ). The quality criteria are also determined in the Law on State Statistics in Article 4b and Article 4c ( <a href="https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/">https://www.stat.mk/en/about-us/legal-acts/law-on-state-statistics/</a> ).	
<b>11.2</b>	<b>Quality assessment</b>
The State Statistical Office carries out statistical activities in accordance with the Statistical Business Process Model, which is based on the international model - Generic Statistical Business Process Model (GSBPM). The application of this model and international standards in statistical production ensures a high level of accuracy and comparability of data.	
<b>12</b>	<b>Relevance</b>
<b>12.1</b>	<b>User needs</b>
The data on health accounts are used by the <b>Government, Ministries and Government institutions</b> in creating and making appropriate and purposeful decisions for the development of health, for macroeconomic analysis, for the preparation of strategies for health development and for monitoring the level for realization of the adopted strategies.  - <b>Health institutions</b> can use the data in the field of health for certain analyzes of trends in health in order to plan their activities.  - <b>Pharmacies</b> can use certain data for market analysis as well as for making decisions related to their work	

<b>12.2</b>	<b>User satisfaction</b>
Starting from 2009, the State Statistical Office conducts a User Satisfaction Survey every three years. <a href="http://www.stat.gov.mk/ZaNas_en.aspx?id=33">http://www.stat.gov.mk/ZaNas_en.aspx?id=33</a>	
<b>12.3</b>	<b>Completeness</b>
Not calculated.	
<b>13</b>	<b>Accuracy and reliability</b>
<b>13.1</b>	<b>Overall accuracy</b>
The methodology of the survey and the method of data collection ensure a solid coverage and accuracy of the data.	
<b>13.2</b>	<b>Sampling error</b>
Not applicable.	
<b>13.3</b>	<b>Non-sampling error</b>
Not applicable.	
<b>14</b>	<b>Timeliness and punctuality</b>
<b>14.1</b>	<b>Timeliness</b>
Time difference to definitive results, <b>T+23 months.</b>	
<b>14.2</b>	<b>Punctuality</b>
The data is disseminated within the established deadline in accordance with the Release Calendar.	
<b>15</b>	<b>Coherence and comparability</b>
<b>15.1</b>	<b>Comparability - geographical</b>
There is geographical comparability of the disseminated data at the national and regional level and comparability with EU countries.	
<b>15.2</b>	<b>Comparability - over time</b>
From 2017 to 2020 year. The data are aggregated according to ICHA (International Classification of Health Accounts), <a href="https://unstats.un.org/unsd/classifications/Family/Detail/1035">https://unstats.un.org/unsd/classifications/Family/Detail/1035</a> .	
Length of comparable time series is 4 reference years.	
<b>15.3</b>	<b>Coherence - cross domain</b>
<ul style="list-style-type: none"> <li>The data on the total costs of the population of the Republic of North Macedonia (RSM) for the performed health services, issued medicines and medical technical aids are in accordance with the methodology A System of health accounts, 2011 - SHA (System of health accounts), established by the OECD. Eurostat and WHO. Public, private and donated funds are also included. Interdomain coherence of the data is ensured and covers three dimensions of costs, according to: <ul style="list-style-type: none"> <li>Health care functions (functional classification) (ICHA-HC),</li> <li>Health Care Providers (ICHA-HP) and</li> <li>Sources of Health Care Financing (ICHA-HF).</li> </ul> </li> </ul>	
<b>15.4</b>	<b>Coherence - internal</b>
Internal coherence of data is ensured.	
<b>16</b>	<b>Cost and burden</b>
Not applicable.	
<b>17</b>	<b>Data revision</b>
<b>17.1</b>	<b>Data revision - policy</b>
Data revision is made in accordance with the Statistical Data Revision Policy of the SSO: <a href="http://www.stat.gov.mk/ZaNas.aspx?id=25">http://www.stat.gov.mk/ZaNas.aspx?id=25</a> .	
<b>17.2</b>	<b>Data revision - practice</b>
Revision of health accounts data is done in a cases when there are methodological improvements, changes in A System of health accounts, 2011- SHA (System of Health Accounts), <a href="https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm">https://www.oecd.org/publications/a-system-of-health-accounts-2011-9789264270985-en.htm</a> , changes at European level such as transition from the European System of Accounts ESS 95, ESA 2010, <a href="https://ec.europa.eu/eurostat/documents/3859598/5925693/KS-02-13-269-EN.PDF/44cd9d01-bc64-4,">https://ec.europa.eu/eurostat/documents/3859598/5925693/KS-02-13-269-EN.PDF/44cd9d01-bc64-4,</a> or due to the revisions in statistical surveys used as input for the calculation.	

<b>18</b>	<b>Statistical processing</b>
<b>18.1</b>	<b>Source data</b>
Data from administrative sources and statistical surveys are used for the calculations. The main sources are data collected by the Health Insurance Fund of the Republic of North Macedonia, annual financial reports of ministries and the Central Register of RSM, from statistical surveys conducted by the Ministry of Labor and Social Policy, the Ministry of Defense from the Ministry of Finance and other relevant institutions.	
<b>18.2</b>	<b>Frequency of data collection</b>
Annual.	
<b>18.3</b>	<b>Data collection</b>
The main sources are data collected by the Health Insurance Fund of the Republic of North Macedonia.	
Additional data sources are:	
<ul style="list-style-type: none"> <li>• Annual financial reports of ministries and the Central Register of RSM,</li> <li>• Statistical surveys conducted by the Ministry of Labor and Social Policy,</li> <li>• Data from the Ministry of Defense ,</li> <li>• Data from the Ministry of Finance and other relevant institutions.</li> </ul>	
<b>18.4</b>	<b>Data validation</b>
Data validation include three dimensions of costs according to:	
<ul style="list-style-type: none"> <li>• Health care functions (functional classification) (ICHA-HC),</li> <li>• Health Care Providers (ICHA-HP) and</li> <li>• Sources of Health Care Financing (ICHA-HF).</li> </ul>	
<b>18.5</b>	<b>Data compilation</b>
The data is entered into an application (HApRePT_Health Accounts pre-Production Tool) in MicrosoftAccess and it is specially adapted for the country in which	
<b>18.6</b>	<b>Adjustment</b>
Not applicable.	
<b>19</b>	<b>Comment</b>
No comment.	
<b>A.1</b>	<b>Annexes</b>