

## Metodika

### Výber indikátorov:

Ukazovatele sme sledovali v deviatich kategóriách rozdelených podľa [OECD Health Statistics](#). Výber konkrétnych ukazovateľov sme uskutočňovali podľa významu z pohľadu verejného zdravia, kvality poskytovanej zdravotnej starostlivosti, ako aj verejných výdavkov na zdravotníctvo. Naopak, do porovnania sme nezaradili indikátory, ktoré majú podľa nás menší význam, prípadne neboli dostupné ani u väčšiny krajín OECD. Počet vybraných ukazovateľov bol 336 ([vid' Príloha](#)).

### Sledované obdobie:

Sledovaným obdobím bolo obdobie od roku 2002 do roku posledného, kedy boli dáta pre daný ukazovateľ dostupné u väčšiny krajín OECD (spravidla 2002-2014, 2002-2015).

### Komplexnosť dát – rozdelenie indikátorov:

Indikátory boli rozdelené do štyroch skupín podľa dostupnosti dát na základe týchto charakteristík:

1. „údaje komplexné v období 2002-2015“ - skupinu tvoria ukazovatele, ktorých dáta sú dostupné nepretržite<sup>1</sup> od roku 2002 do roku posledného v sledovanom období (**x**)
2. „údaje komplexné v období 2007-2015“ - skupinu tvoria ukazovatele, ktorých dáta sú dostupné nepretržite<sup>1</sup> od roku 2007 do roku posledného v sledovanom období (v období 2002 – 2006 nedostupné minimálne dvakrát) (**y**)
3. „údaje dostupné aspoň v troch rokoch“ - skupinu tvoria ukazovatele, ktorých dáta sú dostupné aspoň v troch a viac rokoch a nespĺňajú podmienku nepretržitosti<sup>1</sup> (**z**)
4. „údaje nedostupné“ - skupinu tvoria ukazovatele, ktorých dáta sú dostupné v menej ako troch rokoch

### Index komplexnosti dát:

Ukazovatele sú bodovo ohodnotené na základe prvotného rozdelenia 336 ukazovateľov (**n**) do štyroch skupín. Hodnotu *Indexu komplexnosti dát* tvoria prvé tri skupiny označené ako x, y, z. Za ukazovatele v skupine „údaje nedostupné“ sme nepridelovali žiadne body. V bodovom vyjadrení sme používali zaokrúhlenie na celé čísla.

$$\text{Index komplexnosti dát (počet bodov za krajinu)} = \frac{(3x + 2y + 1z)}{3n} * 100$$

### Zdroj dát:

OECD Health Statistics 2016 - <http://www.oecd.org/health/health-data.htm>

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<sup>1</sup> Pre splnenie **podmienky nepretržitosti** museli byť údaje dostupné v danom ukazovateli v každom roku v stanovenom období. Do úvahy bola braná tolerancia chýbajúcich dát v jednom roku v stanovenom období.

# Príloha

## Zoznam sledovaných ukazovateľov:

<b>1. Health Expenditure and Financing:</b>
Current expenditure on health (all functions)
Curative and rehabilitative care
Inpatient curative and rehabilitative care
Government and compulsory health insurance schemes
Out-of-pocket expenditure, % of current expenditure on health
Current expenditure on pharmaceuticals (prescribed and over-the-counter medicines) and other medical non-durables, % of current expenditure on health
Day curative and rehabilitative care
Outpatient curative and rehabilitative care
Home-based curative and rehabilitative care
Long-term care (health)
Medical goods( non-specified by function)
Preventive care
Governance and health system andd financing administration
Current expenditure on health (all functon) Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Current expenditure on health (all functon) Private expenditure, Per capita, current prices, current PPPs
Current expenditure on health (all functon) Household out-of-pocket payment, Per capita, current prices, current PPPs
Curative and rehabilitative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Curative and rehabilitative care Private expenditure, Per capita, current prices, current PPPs
Curative and rehabilitative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Inpatient curative and rehabilitative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Inpatient curative and rehabilitative care Private expenditure, Per capita, current prices, current PPPs
Inpatient curative and rehabilitative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Inpatient curative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Inpatient curative care Private expenditure, Per capita, current prices, current PPPs
Inpatient curative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Inpatient rehabilitative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Inpatient rehabilitative care Private expenditure, Per capita, current prices, current PPPs
Inpatient rehabilitative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Day curative and rehabilitative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Day curative and rehabilitative care Private expenditure, Per capita, current prices, current PPPs
Day curative and rehabilitative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Outpatient curative and rehabilitative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Outpatient curative and rehabilitative care Private expenditure, Per capita, current prices, current PPPs
Outpatient curative and rehabilitative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Home-based curative and rehabilitative care Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Home-based curative and rehabilitative care Private expenditure, Per capita, current prices, current PPPs
Home-based curative and rehabilitative care Household out-of-pocket payment, Per capita, current prices, current PPPs
Long-term care (health) Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Long-term care (health) Private expenditure, Per capita, current prices, current PPPs
Long-term care (health) Household out-of-pocket payment, Per capita, current prices, current PPPs
Inpatient long-term care (health) All financing schemes Per capita, current prices, current PPPs
Inpatient long-term care (health) Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Inpatient long-term care (health) Private expenditure, Per capita, current prices, current PPPs
Inpatient long-term care (health) Household out-of-pocket payment, Per capita, current prices, current PPPs
Day long-term care (health) All financing schemes Per capita, current prices, current PPPs

Day long-term care (health)	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Day long-term care (health)	Private expenditure, Per capita, current prices, current PPPs
Day long-term care (health)	Household out-of-pocket payment, Per capita, current prices, current PPPs
Outpatient long-term care (health)	All financing schemes Per capita, current prices, current PPPs
Outpatient long-term care (health)	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Outpatient long-term care (health)	Private expenditure, Per capita, current prices, current PPPs
Outpatient long-term care (health)	Household out-of-pocket payment, Per capita, current prices, current PPPs
Home-based long-term care (health)	All financing schemes Per capita, current prices, current PPPs
Home-based long-term care (health)	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Home-based long-term care (health)	Private expenditure, Per capita, current prices, current PPPs
Home-based long-term care (health)	Household out-of-pocket payment, Per capita, current prices, current PPPs
Ancillary services (non-specified by function)	All financing schemes Per capita, current prices, current PPPs
Ancillary services (non-specified by function)	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Ancillary services (non-specified by function)	Private expenditure, Per capita, current prices, current PPPs
Ancillary services (non-specified by function)	Household out-of-pocket payment, Per capita, current prices, current PPPs
Laboratory services	All financing schemes Per capita, current prices, current PPPs
Laboratory services	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Laboratory services	Private expenditure, Per capita, current prices, current PPPs
Laboratory services	Household out-of-pocket payment, Per capita, current prices, current PPPs
Imaging services	All financing schemes Per capita, current prices, current PPPs
Imaging services	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Imaging services	Private expenditure, Per capita, current prices, current PPPs
Imaging services	Household out-of-pocket payment, Per capita, current prices, current PPPs
Patient transportation	All financing schemes Per capita, current prices, current PPPs
Patient transportation	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Patient transportation	Private expenditure, Per capita, current prices, current PPPs
Patient transportation	Household out-of-pocket payment, Per capita, current prices, current PPPs
Medical goods (non-specified by function)	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Medical goods (non-specfied by function)	Private expenditure, Per capita, current prices, current PPPs
Medical goods (non-specfied by function)	Household out-of-pocket payment, Per capita, current prices, current PPPs
Pharmaceuticals and other medical non-durable goods	All financing schemes Per capita, current prices, current PPPs
Pharmaceuticals and other medical non-durable goods	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Pharmaceuticals and other medical non-durable goods	Private expenditure, Per capita, current prices, current PPPs
Pharmaceuticals and other medical non-durable goods	Household out-of-pocket payment, Per capita, current prices, current PPPs
Prescribed medicines	All financing schemes Per capita, current prices, current PPPs
Prescribed medicines	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Prescribed medicines	Private expenditure, Per capita, current prices, current PPPs
Prescribed medicines	Household out-of-pocket payment, Per capita, current prices, current PPPs
Over-the-counter medicines	All financing schemes Per capita, current prices, current PPPs
Over-the-counter medicines	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Over-the-counter medicines	Private expenditure, Per capita, current prices, current PPPs
Over-the-counter medicines	Household out-of-pocket payment, Per capita, current prices, current PPPs
Therapeutic appliances and other medical durable goods	All financing schemes Per capita, current prices, current PPPs
Therapeutic appliances and other medical durable goods	Government schemes and compulsory contributory health care financing schemes, Per capita, current prices, current PPPs
Therapeutic appliances and other medical durable goods	Private expenditure, Per capita, current prices, current PPPs
Therapeutic appliances and other medical durable goods	Household out-of-pocket payment, Per capita, current prices, current PPPs

## 2. Health Status:

Causes of mortality
Life expectancy, Total population at birth,
Infant mortality, Deaths per 1 000 live births
Potential years of life lost, All causes

Causes of mortality Suicides

Certain infectious and parasitic diseases

Tuberculosis

HIV-AIDS

Neoplasms

Malignant neoplasms

Malignant neoplasms of trachea, bronchus, lung

Malignant neoplasms of colon, rectum and anus

Malignant neoplasms of female breast

Malignant neoplasms of stomach

Malignant neoplasms of pancreas

Malignant neoplasms of prostate

Malignant neoplasms of liver

Malignant neoplasms of cervix

Malignant neoplasms of ovary

Hodgkin's disease

Leukemia

Malignant neoplasms of bladder

Malignant melanoma of skin

Diseases of the blood and blood-forming organs

Endocrine, nutritional and metabolic diseases

Diabetes mellitus

Mental and behavioral disorders

Dementia

Alcohol use disorders

Drug use disorders

Diseases of the nervous system

Parkinson's disease

Alzheimer's disease

Diseases of the circulatory system

Ischaemic heart diseases

Acute myocardial infarction

Cerebrovascular diseases

Diseases of the respiratory system

Influenza

Pneumonia

Chronic obstructive pulmonary diseases

Asthma

Diseases of the digestive system

Peptic ulcer

Chronic liver diseases and cirrhosis

Diseases of the skin and subcutaneous tissue

Diseases of the musculoskeletal system and connective tissue

Diseases of the genitourinary system

Complications of pregnancy, childbirth and the puerperium

Certain conditions originating in the perinatal period

Congenital malformations and chromosomal abnormalities

Symptoms, signs, ill-defined causes

External causes of mortality

Accidents

Transport accidents

Accidental falls

Accidental poisoning

Intentional self-harm

Assault

Morbidity Perceived health status

Perceived health status by age and gender

Perceived health status by socio-economic status

Communicable diseases

Cancer: Malignant neoplasms

Malignant neoplsms of colon

Malignant neoplasms of lung

Malignant neoplasms of female breast

Malignant neoplasms of cervix

Malignant neoplasms of prostate

**3. Non-Medical Determinants of Health:**

Tabacco consumption: Grammes per capita

Cigarettes per smoker per day

Tobacco consumption, % of population 15+ who are daily smokers

Alcohol consumption

Food supply and consumption: Total fat supply

Sugar supply

Vegetables supply

Fruits supply

Obese population, self-reported, % of total population

Obese population, measured, % of total population

**4. Health Care Resources:**

Practising Physicians

Professionally Active physicians

Physicians Licensed to practise

Physicians by categories

Practising nurses

Profesionally active nurses

Nurses licensed to practice

Practising Midwives

Professionally active midwives

Midwives licensed to practice

Practising dentists

Professionally active dentists

Dentists licensed to practice

Practising pharmacists

Professionaly active pharamcists

Pharmacists licensed to practice

Practising physiotherapists

Practising caring personnel

Total hospotal employment

Graduates: Medical graduates

Dentists graduates

Pharmacist graduates

Midwives graduates

Nursing graduates

Remuneration of health professionals: Remuneration of general practitioners

Remuneration of specialists

Remuneration of hospital nurses

Hospitals

General hospitals

Hospital beds: Total hospital beds

Hospital employment-to-bed ratio (head counts)

Hospital employment-to bed ratio (FTE)

Nurse-to-bed- ratio (head counts)

Nurse-to-bed-ratio FTE

Per 1000 population

Total hospital beds: Curative (acute) care beds

Rehabilitative care beds

Long-term care beds

other hospital beds

Psychiatric care beds

Beds in publicly owned hospitals

Beds in not-for-profit-privately owned hospitals

Beds in for-profit privately owned hospitals

Computed Tomography scanners

Magnetic Resonance Imaging units, total

Positron Emission Tomography (PET) scanners total

Gamma cameras, total

Digital Subtraction Angiography units, total

Mammographs, total

Radiation therapy equipment, total

Lithotriptors, total

Total hospital employment

Total hospital employment Physicians employed in hospital

Total hospital employment Professional nurses and midwives employed in hospitals

Total hospital employment Associate nurses employed in hospitals

Total hospital employment Health care assistants employed in hospitals

Total hospital employment Other Health service providers employed in hospitals

Total hospital employment Other staff employed in hospitals

Physicians by categories: Generalist medical practitioners

Physicians by categories: Generalist medical practitioners, General practitioners

Physicians by categories: Generalist medical practitioners, Other generalist (non-specialist) medical practitioners

Physicians by categories: Specialist medical practitioners

Physicians by categories: Specialist medical practitioners, General paediatricians

Physicians by categories: Specialist medical, Obstetricians and gynaecologists

Physicians by categories: Specialist medical practitioners, Psychiatrists

Physicians by categories: Specialist medical practitioners, medical group of specialists

Physicians by categories: Specialist medical practitioners, surgical group of specialists

Physicians by categories: Specialist medical practitioners, other specialists not elsewhere classified

Medical doctors not further defined

## 5. Health Workforce Migration:

Domestically- trained doctors

Foreign-trained doctors - stock

Total number of doctors

% of foreign-trained doctors

Foreign-trained doctors- Annual inflow

Domestically-trained nurses

Foregin-trained nurses - stock

Total number of nurses

% of foreign-trained nurses

**6. Health Care Utilisation:**

Doctor consultations

Average length of stay, All causes, Days

Average length of stay by diagnostic categories, Acute myocardial infarction (AMI), Days

Average length of stay by diagnostic categories, Single spontaneous delivery, Days

Dentist consultations

Immunisation Diphtheria, tetanus, pertussis

Immunisation: Measles

Immunisation: Hepatitis B

Immunisation: Influenza

Screening: Breast cancer screening programme data

Cervical cancer screening programme data

Hospital aggregate: Inpatient scare discharges (all hospitals)

Curative care discharges

Curative care bed-days

Diagnostic exams: Computed Tomography exams, total

Computed Tomography in hospitals

Computed Tomography exams, in ambulatory care

Magnetic Resonance Imaging exams, total

Magnetic resonance imaging in hospitals

Magnetic resonance imaging exams, in ambulatory care

Positron Emission Tomography (PET) exams, total

Positron Emission Tomography (PET) exams, in hospitals

Positron Emission Tomography (PET) exams, in ambulatory care

Surgical procedures: Cataract surgery- total number of procedures

Tonsillectomy- total number of procedures

Transluminal coranary angioplasty- total number of procedures

Coronary artery bypass graft- total number of procedures

Stem cell transplantation- total number of procedures

Appendectomy- total number of procedures

Laparoscopic appendectomy- total number of procedures

Cholecystectomy- total number of procedures

Laparoscopic cholecystectomy- total number of procedures

Repair of inguinal hemia- total number of procedures

Laparoscopic repair of inguinal hemia- total number of procedures

Transplantation of kidney- total number of procedures

Open prostatectomy- total number of procedures

Transurethal prostactomy- total number of procedures

Hysterectomy- total number of procedures

Laparoscopicprocedures hysterectomy- total number of procedures

Caesarean section- total number of procedures

Hip replacement- total number of procedures

Secondary hip replacement- total number of procedures

Total knee replacement- total number of procedures

Partial excision of mammary gland- total number of procedures

Total mastectomy- total number of procedures

Waiting times Cataract surgery

Percutaneous transluminal coronary angioplasty

Coronary bypass  
Prostatectomy  
Hysterectomy  
Hip replacement (total and partial, inclding the revision of hip replacement  
Knee replacement  
Hospital average length of stay by diagnostic categories  
Inpatient care average length of stay ( all hospitals)  
Curative care average length of stay

**7. Health Care Quality Indicators:**

Asthma hospital admission  
Chronic obstructive pulmonary disease hospital admission  
Asthma and chronic obstrective pulmonary disease hospital admission  
Congestive heart failure hospital admission  
Hypertension hospital admission  
Congestive heart failure and hypertension hospital admission  
Diabetes hospital admission  
Cancer care Breast cancer five year relative survival  
Cervical cancer five year relative survival  
Colorectal cancer five year relative survival  
Thirty-day mortality after admission to hospital for AMI based on admission data  
Thirty-day mortality after admisson to hospital for hemorrhagic stroke based on admission data  
Thirty-day mortality after admission to hospital for ischemic stroke based on admission data  
Hip-fracture surgery initiated within 2 days after admission to the hospital

**8. Pharmaceutical Market:**

Pharmaceutical sales  
Generic market  
Re-imbursed pharmaceutical market  
Community pharmacy market  
Hospital pharmaceutical market

***Pharmaceutical consumption:***

A-Alimentary tract and metabolism, Defined daily dosage (DDD) per 1 000 inhabitants per day  
B-Blood and blood forming organs, Defined daily dosage per 1 000 inhabitants per day  
C-Cardiovascular system, Defined daily dosage per 1 000 inhabitants per day  
G-Genito urinary system and sex hormones, Defined daily dosage per 1 000 inhabitants per day  
H-Systemic hormonal preparations, excluding sex hormones and insulins, Defined daily dosage per 1 000 inhabitants per day  
J-Antiinfectives for systemic use, Defined daily dosage per 1 000 inhabitants per day  
J01-Antibacterials for systemic use (antibiotics), Defined daily dosage per 1 000 inhabitants per day  
M-Musculo-skeletal system, Defined daily dosage per 1 000 inhabitants per day  
N-Nervous system, Defined daily dosage per 1 000 inhabitants per day  
R-Respiratory system, Defined daily dosage per 1 000 inhabitants per day

**9. Long-Term Care Resources and Utilisation:**

Long-term care workers Formal LTC workers (FTE):  
Beds in residential long-term care facilities: Beds in residential long-term care facilities  
Long-term care recipitents: LTC recipients in institutions (other recipients than hospitals)  
LTC recipients at home