

## G Health institutions

The Czech Statistical Office (CZSO) in cooperation with the Institute of Health Information and Statistics of the Czech Republic (IHIS) that is a state-subsidized organization administered by the Ministry of Healthcare of the Czech Republic developed a short module (set of basic questions) related to ICT usage in the health-care facilities. This module is a part of the questionnaires used for the census surveys carry out by the Ministry of Healthcare of the Czech Republic for health-care institutions.

Information for international comparison on the use of computers and the Internet at the surgeries (medical offices) of general practitioners for selected activities (exchange of electronic patient records with other entities via electronic networks, etc.) originates from the survey titled "**Pilot on eHealth Indicators**", conducted in 2007 by **Empirica for the European Commission (EC)** as part of the i2010 project.

More information about this project is available on:

[www.ehealth-indicators.eu](http://www.ehealth-indicators.eu)

The data on use of the Internet by individuals for **seeking health related information** (information about diseases, treatment, diagnostics, nutrition etc.) comes from an independent annual statistical survey titled: "Sample Survey on the Use of Information and Communication Technologies in Households and Among Individuals". For more information see Chapter C. Eurostat database was used as a data source for an international comparison.

### Definitions:

- **GPs** – general practitioner
- **Internet user** – person who used at least once the Internet in the last 3 months preceding the interview from any location (home, work, school, etc.) and for any purpose (personal use, work related use, education, etc.).
- **Broadband connection** includes one of the following Internet access services that enable a high speed internet connection (256 or more kbit/s, in one or both directions): xDSL (ADSL etc.), Cable TV (cable modem/CATV), WiFi and other fixed wireless connections (FWA), connections via mobile networks (EDGE, CDMA, or UMTS) and other such as Fibre, LAN, Satellite technologies, etc.
- **Seeking health related information** – seeking information about diseases, treatment, diagnostics, nutrition etc. on internet
- **Keeping health records on the Internet** is the use of health books via the Internet (e.g., the implementation of the IZIP project – Internet-based Access to Patient Health Information).
- **Making online appointments** is making appointments through the health establishment's website, using online form (e-mail is not included).
- **Online consultation** is a possibility to ask health-related questions, which the health establishment answers by e-mail or may publish the response on its website.

**More detailed information and data are available free of charge at the following dedicated website (only in Czech):**

[http://www.czso.cz/csu/redakce.nsf/i/informacni\\_technologie\\_ve\\_zdravotnictvi](http://www.czso.cz/csu/redakce.nsf/i/informacni_technologie_ve_zdravotnictvi)

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Tab. G1 ICT in health establishments in the CR, 2007

%

	PC	Internet	Broadband
Hospitals	100,0	100,0	78,6
Specialized therapeutic institutions	98,1	95,3	64,2
Balneological institutions	98,6	95,8	69,0
<b>Medical offices of physicians, total</b>	<b>94,3</b>	<b>67,1</b>	<b>40,0</b>
GPs for adults	94,6	69,8	41,8
GPs for children	89,5	68,7	40,4
Stomatologist	93,3	60,6	35,2
Gynaecologist	96,0	74,2	52,2
independent specialists	96,0	68,9	40,5
Pharmacies	99,3	96,0	68,3

as a percentage of all establishments in each category

Figure G1 Physicians with the internet access in a medical offices by type of practice in Czech regions, 2007 (%)

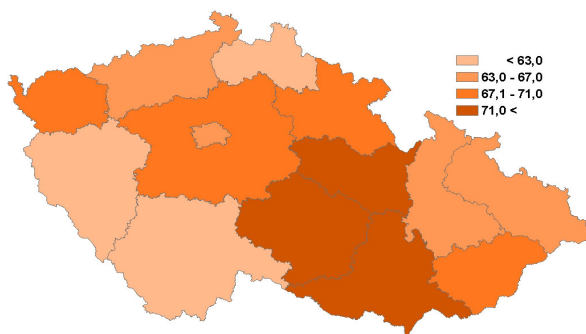
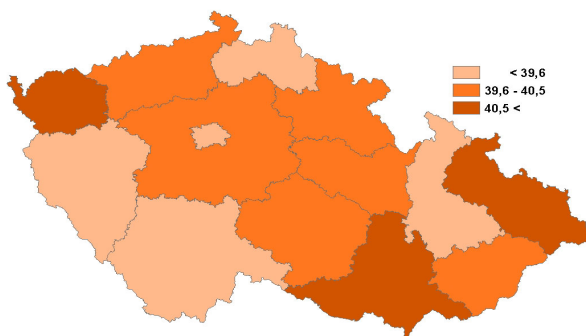


Figure G2 Physicians with a broadband access in a medical offices by type of practice in Czech regions, 2007 (%)

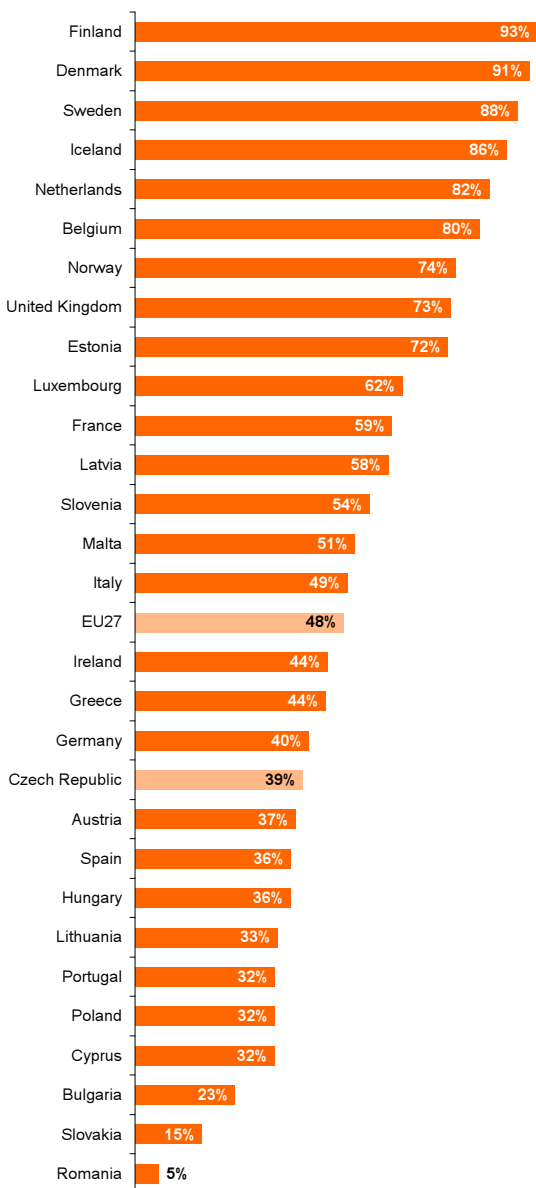


as a percentage of all medical offices of physicians in each region

Source: Institute of Health Information and Statistics of the Czech Republic

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**Figure G3 General practitioners with a broadband access in their medical offices, 2007**



as a percentage of all medical offices of general practitioners

Source: EC, Pilot on eHealth Indicators (Empirica), 2007

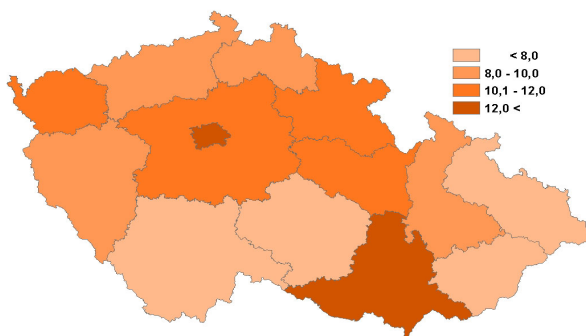
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Tab. G2 Health establishments with a website in the Czech Rep.

	2005	2006	2007
Hospitals	65,7	80,7	87,7
Specialized therapeutic institutions	57,4	69,4	75,5
Balneological institutions	66,1	75,3	80,3
<b>Medical offices of physicians, total</b>	<b>5,2</b>	<b>7,7</b>	<b>11,2</b>
GPs for adults	5,1	7,1	8,1
GPs for children	6,7	11,5	14,5
Stomatologist	3,4	5,4	5,8
Gynaecologist	10,2	13,0	15,3
independent specialists	10,8	14,6	15,9
Pharmacies	16,3	24,9	26,6

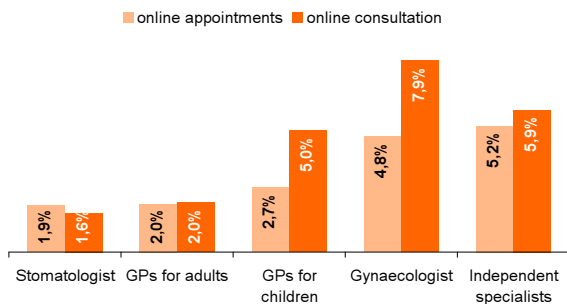
as a percentage of all establishments in each category

Figure G4 Medical offices of physicians with a website in Czech regions, 2007 (%)



as a percentage of all medical offices of physicians in each region

Figure G5 Websites of physicians enabling online appointments and online consultations in 2007



GPs - general practitioners

as a percentage of all medical offices of physicians in each category

Source: Institute of Health Information and Statistics of the Czech Republic

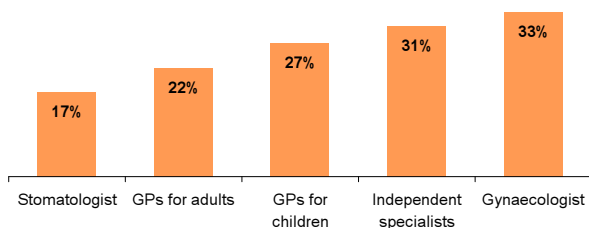
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Tab. G3 Czech physicians using internet\* for selected activities

	%		
	2005	2006	2007
<b>for access to:</b>			
practical medicine	26,0	57,2	61,1
theoretical medicine	22,9	49,9	55,4
pharmacy	23,5	48,8	53,7
<b>for communication with:</b>			
business partners	17,2	36,8	42,5
health insurance companies	22,0	35,5	41,7
other health establishments	15,4	28,2	34,2
patients	10,2	17,8	24,8
pharmacies	3,2	7,1	9,4
<b>for keeping health records</b>	9,0	11,3	9,5

\* it includes use of internet both in the medical office and at home of physician as a percentage of all medical offices of physicians in each region

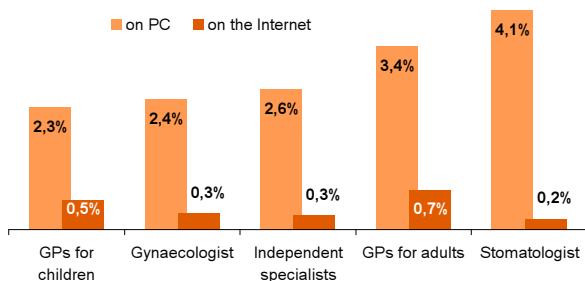
Figure G6 Physicians using e-mail for communication with their patients, 2007



GPs - general practitioners

as a percentage of all physicians in each category

Figure G7 Physicians keeping health records electron., 2007



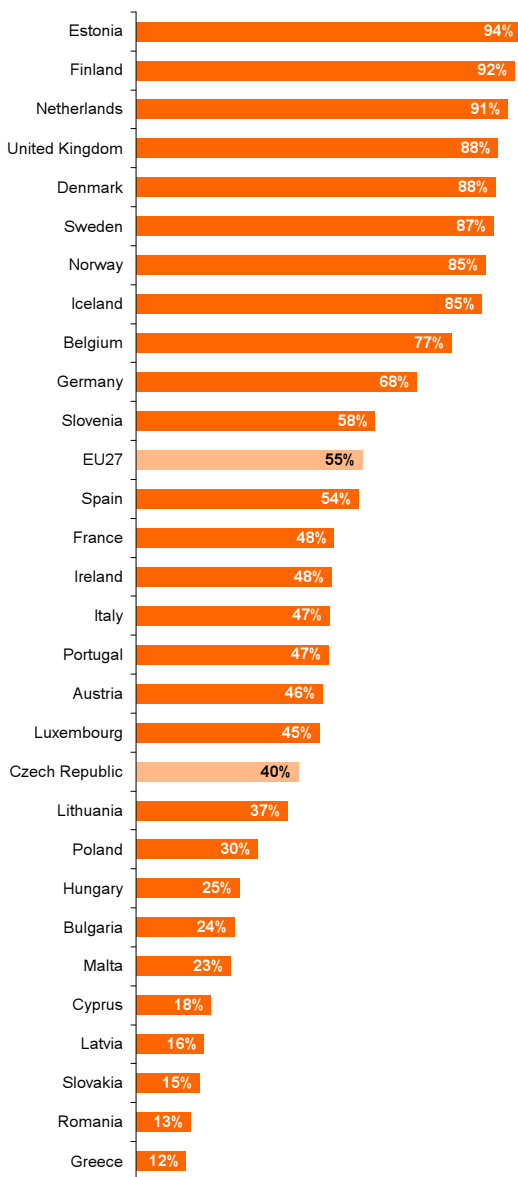
GPs - general practitioners

as a percentage of all physicians in each category

Source: Institute of Health Information and Statistics of the Czech Republic

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**Figure G8 Medical offices of GPs connected to other entities, either via internet or a dedicated electronic network in 2007**



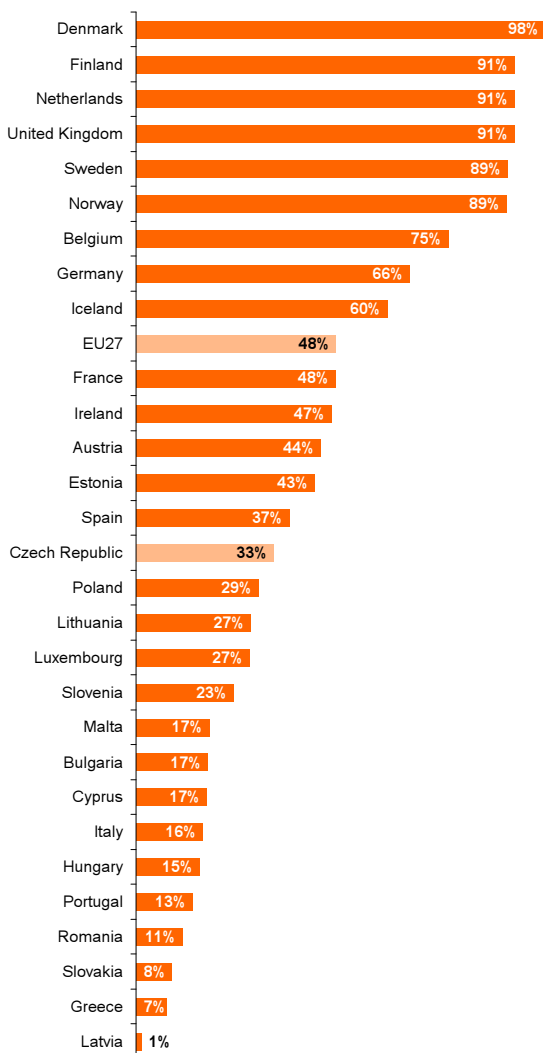
as a percentage of all all medical offices of general practitioners

GPs - general practitioners

Source: EC, Pilot on eHealth Indicators (Empirica), 2007

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Figure G9 General practitioners using electronic exchange for health records in 2007



as a percentage of all all medical offices of general practitioners

\* Usage of the the internet or other electronic health networks for the following kinds of exchange of patient data with other health care providers, with reimbursing organisations, with other health care providers and professionals, with any health care provider in other countries, to transfer prescriptions electronically to dispensing pharmacists, to receive laboratory reports electronically etc.

Source: EC, Pilot on eHealth Indicators (Empirica), 2007

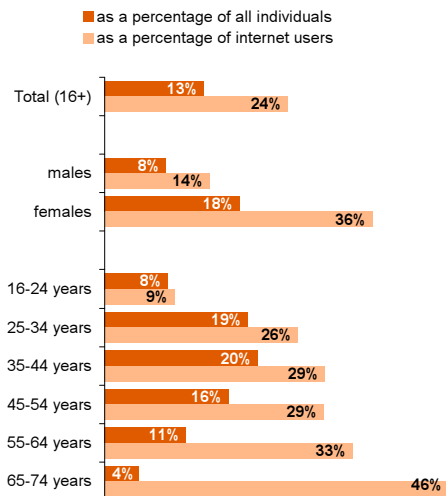
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Tab. G4 Individuals in the Czech Republic using the Internet to seek health information

	%		
	2006	2007	2008
<b>Total (16+)</b>	9,3	9,9	13,1
Total (16-74 years)	10,0	10,7	14,2
<b>Gender:</b>			
Males (16+)	6,7	6,5	8,1
Females (16+)	11,7	13,1	17,9
<b>Age group:</b>			
16-24 years	6,7	7,1	8,3
25-34 years	13,6	12,8	19,0
35-44 years	14,9	17,1	20,3
45-54 years	11,7	12,8	16,4
55-64 years	6,6	7,7	10,7
65-74 years	2,0	2,1	4,4
<b>Highest education level (25+):</b>			
Primary (ISCED 0-2)	0,9	1,2	2,6
Lower secondary (ISCED 3C)	3,8	4,3	7,4
Upper secondary (ISCED 3A and 4)	15,8	16,5	20,8
Tertiary (ISCED 5-6)	25,8	24,9	29,6
<b>Specific categories:</b>			
students (16+)	.	7,2	7,4
pensioners	.	1,6	3,5

as a percentage of all individuals aged 16 years and over

Figure G10 Individuals using the Internet to seek health information in 2008

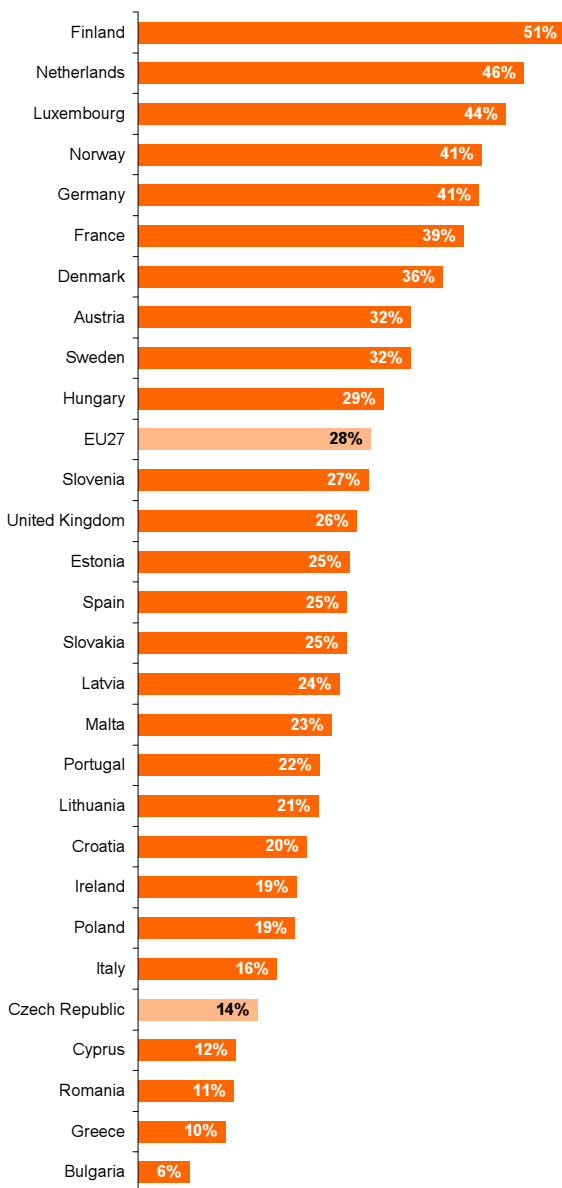


Source: Czech Statistical Office, Household Survey on ICT Use



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**Figure G11 Individuals using the Internet to seek health information in 2008**

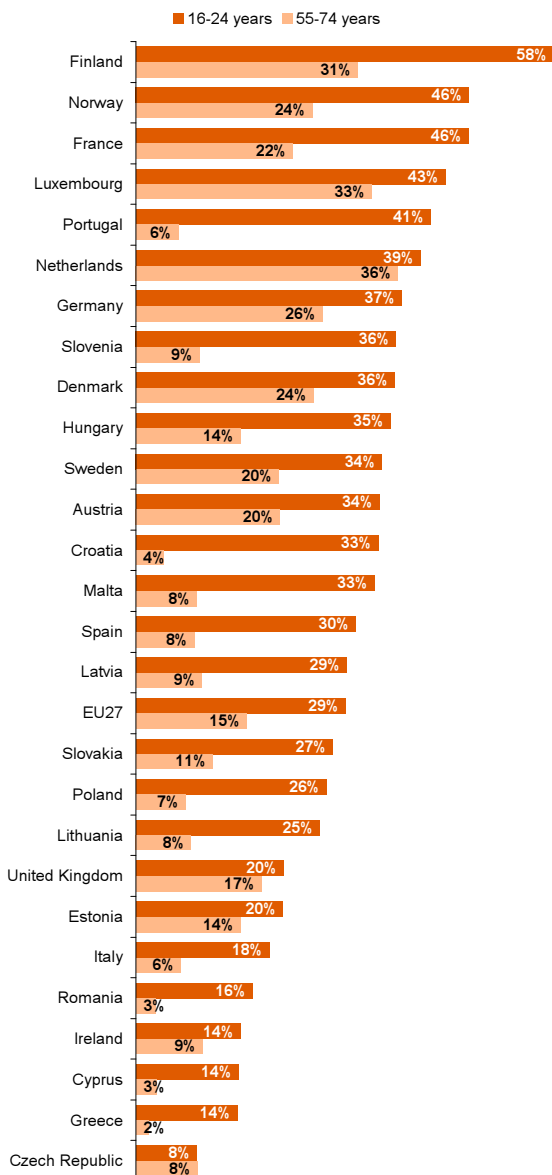


as a percentage of all individuals aged 16 to 74 years

Source: Eurostat, 2009

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**Figure G12 Individuals using the Internet to seek health information in 2008 by age groups**



as a percentage of all individuals in a given age group

Source: Eurostat, 2009