

G Health and ICT

Data on e-Health services are processed from the results of the comprehensive annual survey on information on health care services providers E (MZ) 1-01 performed by the **Institute of Health Information and Statistics of the Czech Republic** (IHIS CR). This survey includes basic questions on the ICT equipment of practices (offices/ surgeries) of **independent physicians**. In addition, data on **online services** offered via websites of independent physicians and **keeping health records (documentation) in the electronic form** are taken from this survey.

Since the reference year 2016, the survey includes also detailed questions on available functionalities and used records of **electronic information healthcare systems** deployed in offices of independent physicians.

Reference period: the data are as at 31 November of the reference year for ICT equipment of practices and 3 months prior to the survey for seeking health-related information by individuals.

Available breakdowns: Data on the ICT use by independent physicians are available by the type of practice – general practitioner for adults, general practitioner for children, dentist, gynecologist, and specialist.

The independent annual statistical survey called **Sample Survey on the ICT Use in Households and by Individuals** (for details see Chapter C) has been a valuable source of information how many individuals use the internet for seeking health-related information in the last 3 months. The survey results are internationally comparable as a percentage of all individuals aged 16 to 74 years.

International data and comparisons of certain indicators are taken from the **Eurostat database** for digital economy and society, data of which are updated every year in December. Detailed information can be found at: https://bit.ly/Comprehensive_database.

Definitions (sorted alphabetically)

- A **specialist physician** shall mean a doctor who has completed advanced education and training in a specific field of medicine to become an allergist, a dermatologist, an ophthalmologist, a urologist, etc. This category excludes gynecologists and dentists.
- **Independent physicians** include all independent practices who are not part of another medical facility, e.g. hospital.
- **Lists of patients by diagnosis, laboratory results or for an appointment** for examinations shall mean a list of electronic records of all patients of the health establishment by a given criterion entered.
- **Online appointments to the physician** shall mean that the patients may make appointments for examination and/or medical intervention by means of an online editable form, which is transmitted directly from the website of the surgery. **These do not include making appointments simply by email.**
- **Online consultancies** shall mean the option to send health related queries via a website of the physician's surgery.
- **Online prescribing** allows a physician to use digital prescription software to electronically transmit a prescription to the patient. Patient receives an electronic identification code which then produces to the pharmacist.
- **Seeking health-related information** includes searching for information about injuries, diseases, nutrition, improving health, etc.
- **The drug interaction alerts** shall mean that the system issues a notice to the physician if the patient has been prescribed medicines, which have mutual effects.
- **Laboratory tests ordering** is made from a computer in a physician's office. The result are received in a form of secure protocol.

For more information see:

[https://www.czso.cz/csu/czso/information technologies in the czech health sector](https://www.czso.cz/csu/czso/information_technologies_in_the_czech_health_sector)

G Health and ICT

Table G1 Independent surgeries of physicians in Czechia equipped with selected ICT; 2020

	Computer	Internet	Website
Total	96,8	95,7	46,6
General practitioners (GP) for adults	98,6	97,6	50,5
General practitioners (GP) for children	98,7	98,0	65,9
Dentists	97,2	96,0	31,1
Gynecologists	97,0	96,2	64,2
Specialists	94,7	93,6	48,4

Percentage

as a percentage of all independent surgeries of a given physician practice

Figure G1 Independent surgeries of physicians equipped with selected ICT

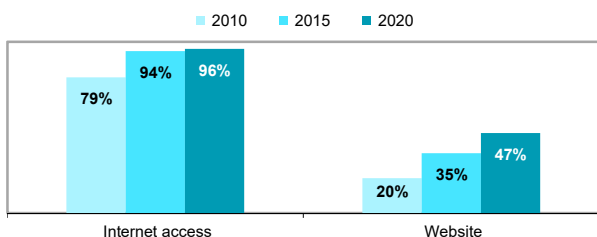


Figure G2 Independent surgeries of physicians with the internet access

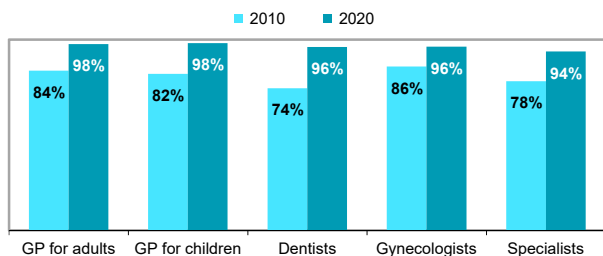
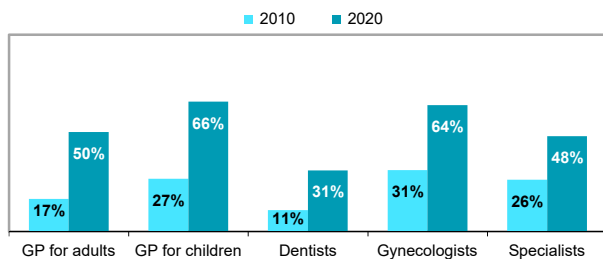


Figure G3 Independent surgeries of physicians having own website



as a percentage of all independent surgeries of a given physician practice

Source: Institute of Health Information and Statistics and CZSO own calculations

G Health and ICT

Table G2 Selected online services available on the websites of independent surgeries of physicians in Czechia; 2020

	Percentage	
	Online appointment	Online consultation
Total	20,9	17,3
General practitioners (GP) for adults	29,4	21,3
General practitioners (GP) for children	28,7	30,0
Dentists	8,3	5,4
Gynecologists	34,2	31,8
Specialists	21,3	18,4

as a percentage of all independent surgeries of a given physician practice

Figure G4 Independent surgeries of physicians having a website application for making online appointment

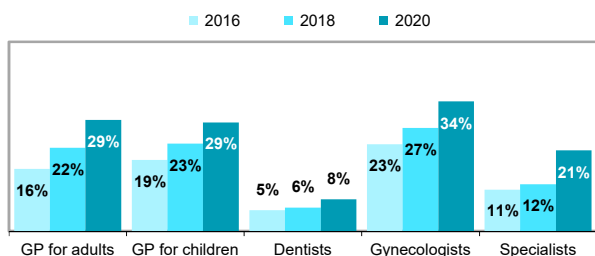


Figure G5 Independent surgeries of physicians having a website application for online consultation

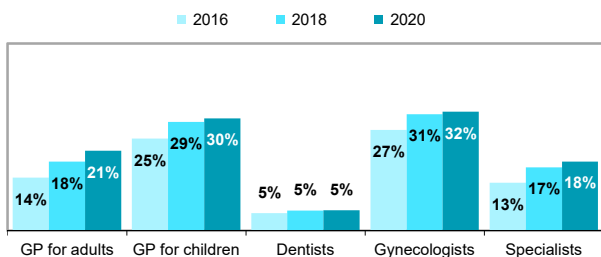
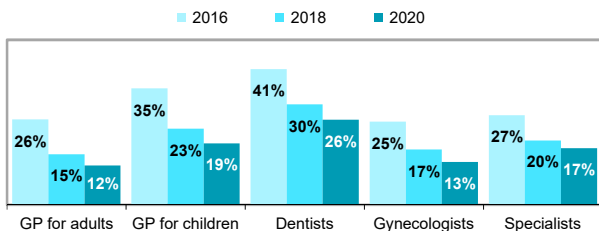


Figure G6 Independent surgeries of physicians keeping the health records in a paper form only



as a percentage of all independent surgeries of a given physician practice

Source: Institute of Health Information and Statistics and CZSO own calculations

Table G3 Independent surgeries of physicians in Czechia using selected functions of e-health systems; 2020

	Percentage		
	Medical prescription	Drug interaction alerts	Laboratory tests ordering
Total	74,3	34,9	38,3
General practitioners for adults	86,1	59,0	69,5
General practitioners for children	79,5	43,3	62,3
Dentists	66,9	15,5	5,8
Gynecologists	82,5	41,6	64,4
Specialists	70,2	32,2	34,2

as a percentage of all independent physicians of a given practice

Figure G7 Independent surgeries of physicians using e-health systems for medical prescription

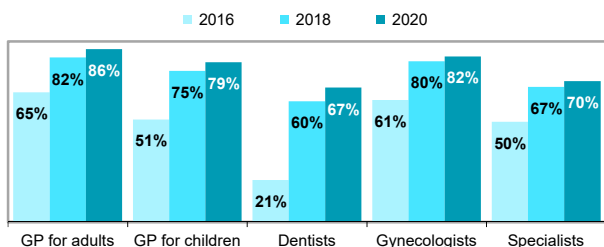


Figure G8 Independent surgeries of physicians using e-health systems for drug interaction alerts

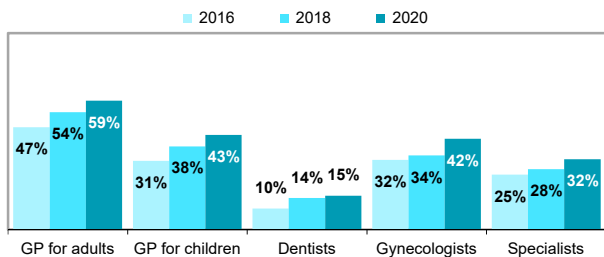
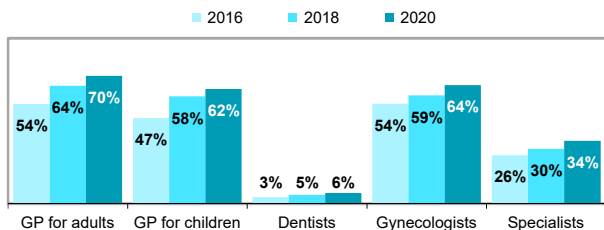


Figure G9 Independent surgeries of physicians using e-health systems for laboratory tests orderings



as a percentage of all physicians of a given practice

G Health and ICT

Table G4 Independent surgeries of physicians in Czechia using e-health systems for generating patient extracts; 2020

	Percentage		
	Patients for appointment	Patients by diagnosis	Patients by laboratory results
Total	48,6	55,3	29,3
General practitioners for adults	66,4	72,5	47,5
General practitioners for children	60,7	59,8	39,5
Dentists	38,0	33,1	10,3
Gynecologists	68,1	70,5	44,8
Specialists	39,8	58,3	27,7

as a percentage of all independent physicians of a given practice

Figure G10 Independent surgeries of physicians using e-health systems for generating patients for appointment

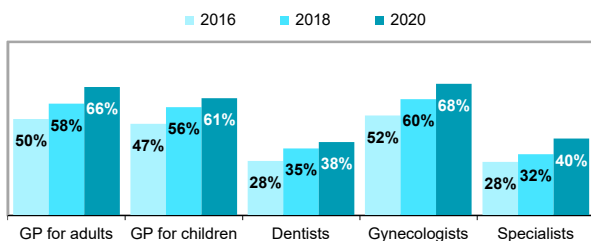


Figure G11 Independent surgeries of physicians using e-health systems for generating patients by diagnosis

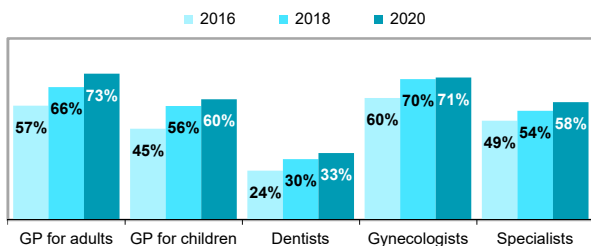
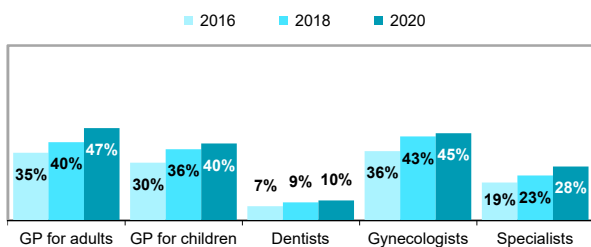


Figure G12 Independent surgeries of physicians using e-health systems for laboratory results of patients



as a percentage of all physicians of a given practice

Source: Institute of Health Information and Statistics and CZSO own calculations

Table G5 Persons in Czechia using the internet for seeking health-related information

	Percentage		
	2010	2015	2021
Total (aged 16+)	19,2	37,3	59,4
Men	12,6	26,4	51,1
Women	25,5	47,9	67,3
Age group (years)			
16–24	13,1	22,9	49,3
25–34	25,0	45,7	69,5
35–44	29,3	48,1	75,5
45–54	23,4	47,5	68,7
55–64	16,3	40,9	64,5
65+	6,7	18,1	34,6
Education attainment (aged 25–64)			
Primary	7,0	20,0	48,9
Secondary without A-level examination	14,6	34,8	59,0
Secondary with A-level examination	30,9	54,8	74,9
Tertiary	40,0	59,2	82,6

as a percentage of all persons in a given socio-demographic group

Figure G13 Persons aged 16+ using the internet for seeking health-related information by gender

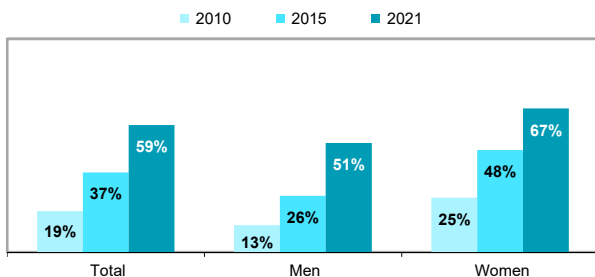
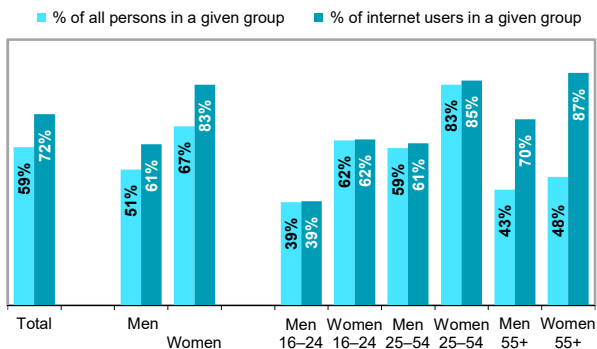


Figure G14 Use of the internet for seeking health-related information by gender and age; 2021



Source: Czech Statistical Office, ICT use survey in households

Figure G15 Men aged 16–74 years in EU countries using the internet for seeking health-related information; 2021

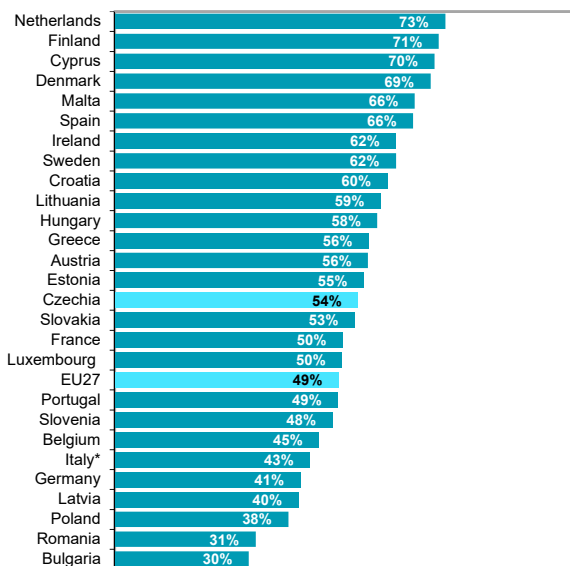
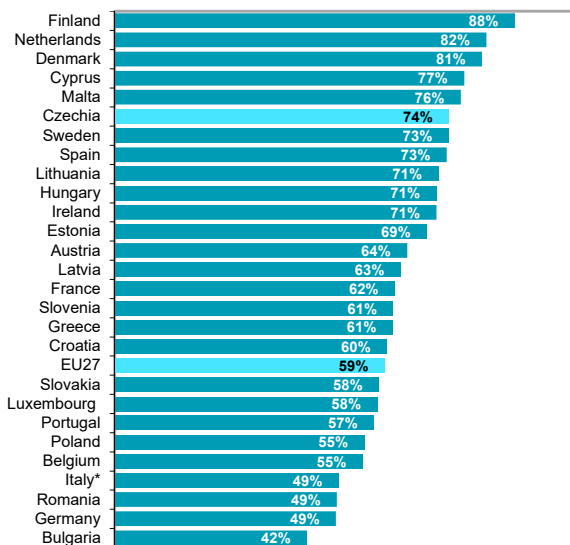


Figure G16 Women aged 16–74 years in EU countries using the internet for seeking health-related information; 2021



* data for 2020

G Health and ICT

Table G6 Persons in Czechia using the internet for making an appointment with the physician

	Percentage	
	2020	2021*
Total (aged 16+)	8,6	31,2
Men	6,4	28,7
Women	10,7	33,5
Age group (years)		
16–24	6,2	25,6
25–34	11,5	34,0
35–44	11,4	38,9
45–54	10,2	37,9
55–64	7,6	38,1
65+	5,1	16,5
Education attainment (aged 25–64)		
Primary	2,6	19,9
Secondary without A-level examination	7,3	29,2
Secondary with A-level examination	12,3	40,6
Tertiary	13,5	48,1

as a percentage of all persons in a given socio-demographic group

Figure G17 Persons aged 16+ using the internet for making an appointment with the physician

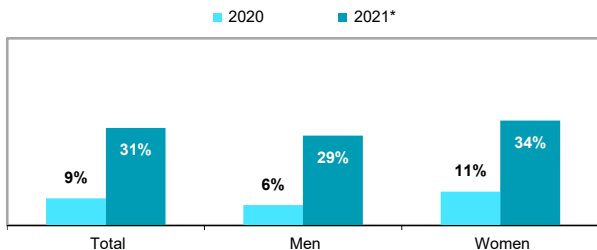
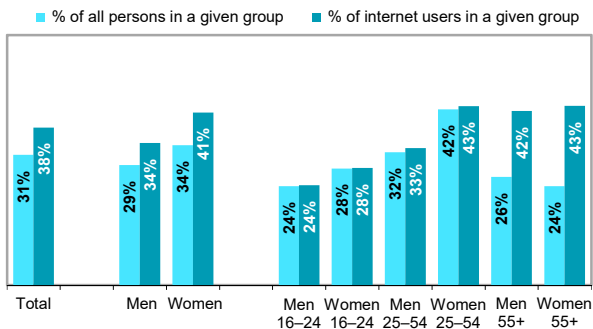


Figure G18 Making appointment via the internet with the physician by gender and age; 2021*



* In 2021 the question included also ordering for samples, tests or vaccinations.

Source: Czech Statistical Office, ICT use survey in households

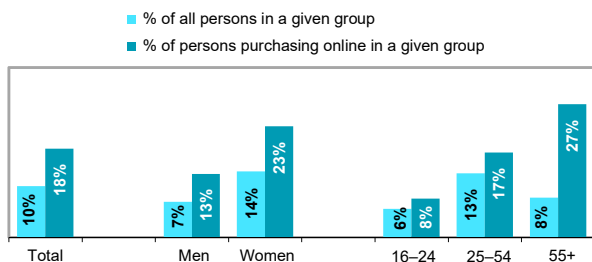
G Health and ICT

Table G7 Persons in Czechia purchasing medicine or dietary supplements on the internet; 2021

	Percentage		
	Total	Men	Women
Total (aged 16+)	10,5	7,3	13,5
16–24 years old	5,8	4,5	7,4
25–54 years old	13,1	8,5	17,5
55 years and more	8,1	6,3	9,7

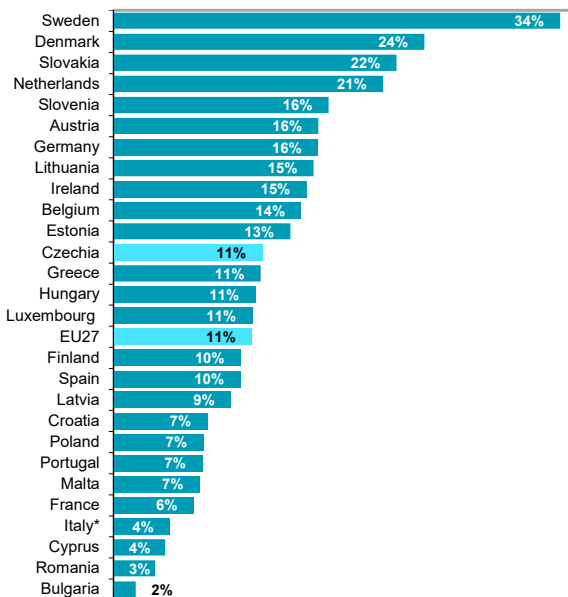
as a percentage of all persons in a given socio-demographic group

Figure G19 Persons aged 16+ purchasing medicine or dietary supplements on the internet; 2021



Source: Czech Statistical Office, ICT use survey in households

Figure G20 Persons aged 16–74 years in EU countries purchasing medicine or dietary supplements online; 2021



* data for 2020

Source: Eurostat