

G Health and ICT

G.1 Use of ICTs by independent physicians

Since the 2003 the Czech Statistical Office (the CZSO) processes data on e-Health services mainly 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 namely 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: End of the monitored year

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.

Definitions:

- 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 gynaecologists and dentists.
- **Electronic health records** shall mean the documentation (medical patient data), which is made, processed, filed, stored, and transmitted in a digital form.
- **On-line consultancies** shall mean the option to send health related queries via a website of the physician's surgery.
- **On-line appointments to the physician** shall mean that the patients may make appointments for examination and/or medical intervention by means of an on-line editable form, which is transmitted directly from the website of the surgery. *These do not include making appointments simply by email.*
- The **on-line application for prescription** shall mean that the patient receives the electronic prescription through an email or an SMS code, which the patient then produces to the pharmacist.
- The **notice on drug interaction** shall mean that the system issues a notice to the physician if the patient has been prescribed medicines, which have mutual effects.
- **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.

G.2 Internet use by individuals with respect to health

The CZSO collects detailed information on **individuals using information and communication technologies** by means of a separate annual statistical survey named **Sample Survey on the ICT Use in Households and by Individuals**. For more details on the survey see **Chapter C**.

The survey results are **internationally comparable** and apart from other, include also data on how many individuals use the Internet for **seeking health-related information** or for **making an online appointment or consultation** with a practitioner via a website or an app.

For more information see:

[https://www.czso.cz/csu/czso/information technologies in the czech health sector](https://www.czso.cz/csu/czso/information%20technologies%20in%20the%20czech%20health%20sector)

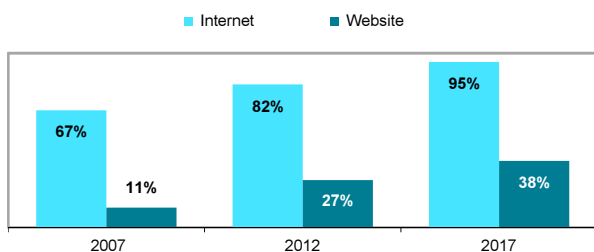
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Tab. G1 Independent physicians in Czechia with a computer and the Internet in their office and with a website; 2017

	Percentage		
	Computer	Internet	Website
All independent physicians	97,4	94,8	38,1
General practitioners (GP) for adults	98,4	96,3	36,5
General practitioners (GP) for children	97,6	96,1	54,5
Dentists	97,1	93,3	25,0
Gynecologists	98,3	97,3	57,3
Specialists	96,9	94,3	41,6

as a percentage of all independent physicians of a given practice

Figure G1 Independent physicians with Internet and a website



as a percentage of all independent physicians

Figure G2 Independent physicians with the Internet by type of practice

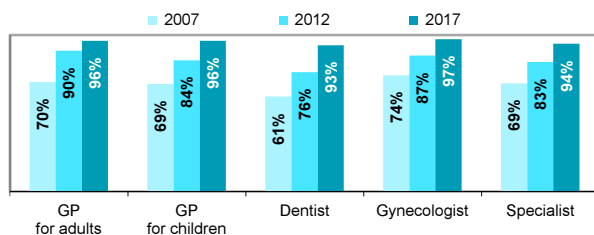
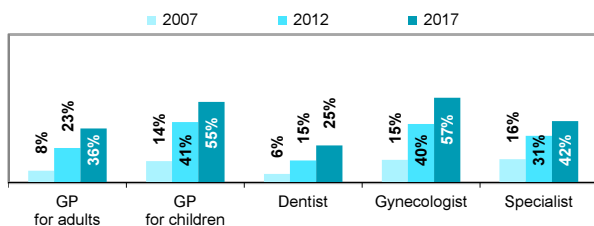


Figure G3 Independent physicians with a website by type of practice



as a percentage of all independent physicians of a given practice

Tab. G2 Online services available on the websites of independent physicians in Czechia; 2017

	Percentage		
	Appoint-ment	Consul-tation	Prescri-ption
All independent physicians	13,5	11,6	18,3
General practitioners (GP) for adults	19,2	11,6	29,2
General practitioners (GP) for children	19,6	20,4	28,0
Dentists	6,0	4,2	4,4
Gynecologists	24,9	26,6	39,7
Specialists	12,0	12,5	16,0

as a percentage of all independent physicians of a given practice

Figure G4 Independent physicians with a website application for online appointment by type of practice

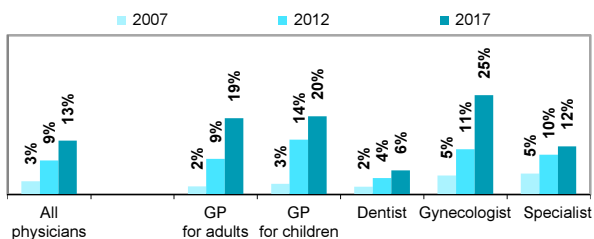


Figure G5 Independent physicians with a website application for online consultation by type of practice

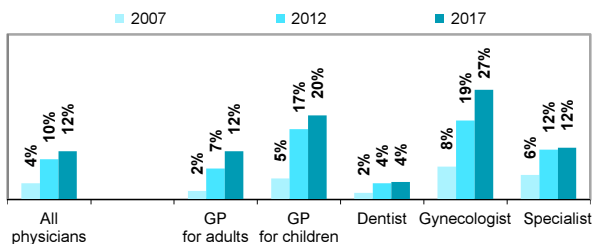
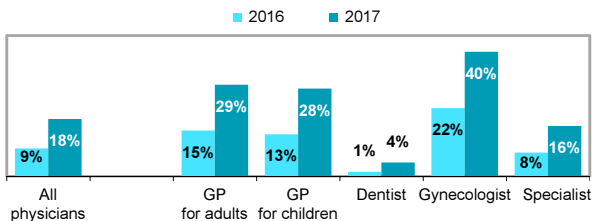


Figure G6 Independent physicians with a website application for online prescription by type of practice



as a percentage of all independent physicians of a given practice

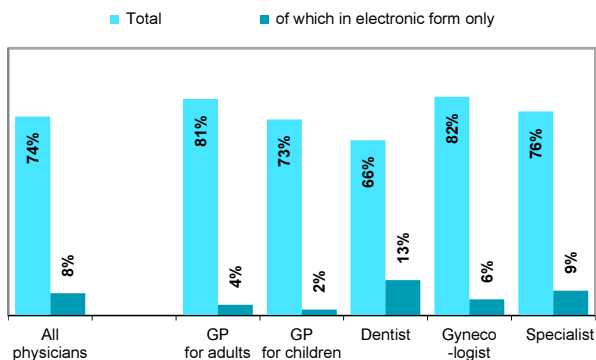
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Tab. G3 Independent physicians in Czechia keeping at least part of the health records in electronic form; 2017

	Percentage	
	Total	of which only electronically
All independent physicians	74,4	8,3
General practitioners (GP) for adults	80,9	4,0
General practitioners (GP) for children	73,4	2,2
Dentists	65,5	13,2
Gynecologists	81,9	6,1
Specialists	76,3	9,3

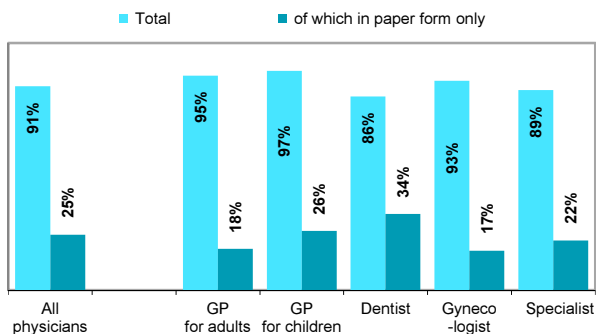
as a percentage of all independent physicians of a given practice

Figure G7 Independent physicians keeping at least part of the health records in electronic form; 2017



as a percentage of all independent physicians of a given practice

Figure G8 Independent physicians still keeping at least part of the health records in paper form; 2016



as a percentage of all independent physicians of a given practice

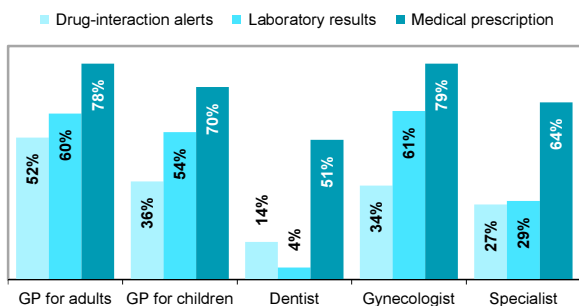
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Tab. G4 Independent physicians in Czechia using selected functions of their e-healthcare information system; 2017

	Percentage		
	Medical prescription	Drug-interaction alerts	Laboratory examinations results
All independent physicians	65,2	30,2	33,4
GPs for adults	78,5	51,7	60,3
GPs for children	70,1	35,7	53,6
Dentists	50,9	13,7	4,4
Gynecologists	78,5	34,2	61,3
Specialists	64,4	27,4	28,6

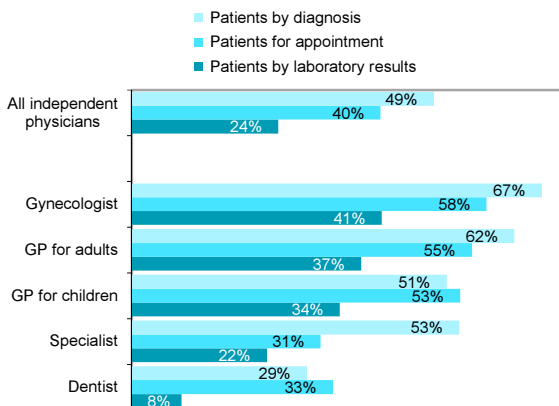
as a percentage of all independent physicians of a given practice

Figure G9 Independent physicians using selected functions of their e-healthcare information systems; 2017



as a percentage of all independent physicians of a given practice

Figure G10 Independent physicians with e-healthcare inf. system enabling to generate selected records; 2017



as a percentage of all independent physicians of a given practice

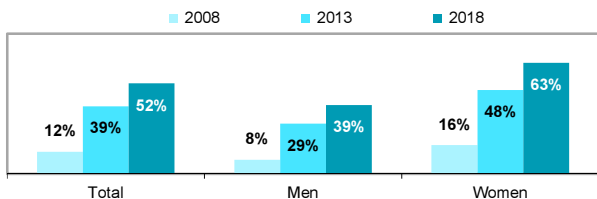
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Tab. G5 Individuals in Czechia using the Internet for seeking health-related information

	Percentage		
	2015	2017	2018
All individuals (aged 16+ years)	37,3	47,7	51,6
All individuals (aged 16-74 years)	39,9	51,1	55,1
Sex			
Men (aged 16+ years)	26,4	35,7	39,2
Women (aged 16+ years)	47,9	59,4	63,4
Age group (years)			
16-24	22,9	41,8	47,2
25-34	45,7	58,7	63,6
35-44	48,1	62,3	62,8
45-54	47,5	57,6	62,7
55-64	40,9	47,5	52,3
65+	18,1	23,2	26,9
Educational attainment (of the aged 25+)			
Primary	12,8	16,7	21,1
Secondary without A-level examination	28,3	36,4	42,0
Secondary with A-level examination	49,4	59,6	60,4
Tertiary	57,1	67,0	71,5
Economic activity status			
Women on maternity leave	68,3	83,2	84,8
Students (aged 16+ years)	19,6	42,0	47,8
Pensioners	21,9	26,0	29,9

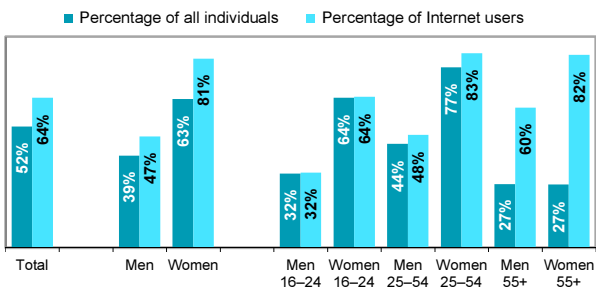
as a percentage of all individuals in a given socio-demographic group

Figure G11 Individuals aged 16+ years using the Internet for seeking health-related information



as a percentage of all individuals (men/women) aged 16+ years

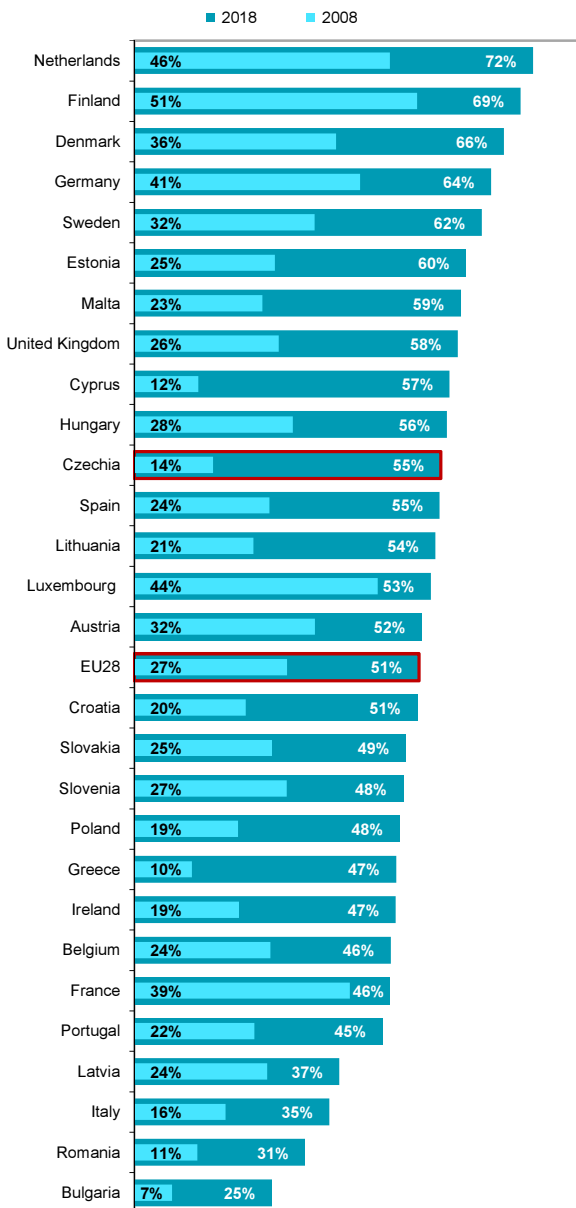
Figure G12 Individuals using the Internet for seeking health-related information by sex and age; 2018



Source: Czech Statistical Office, ICT use survey in households, 2019

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Figure G13 Individuals in EU countries using the Internet for seeking health-related information

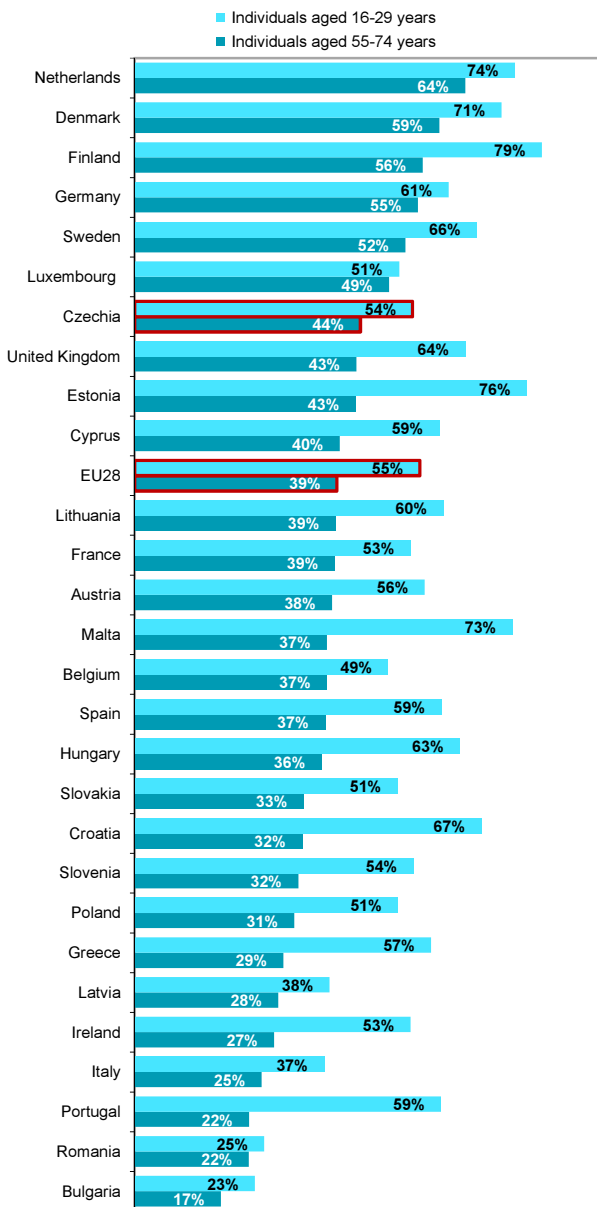


as a percentage of all individuals aged 16 to 74 years in a given country

Source: Eurostat, 2019

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Figure G14 Seeking health-related information on the Internet among younger and older generation in EU countries; 2018

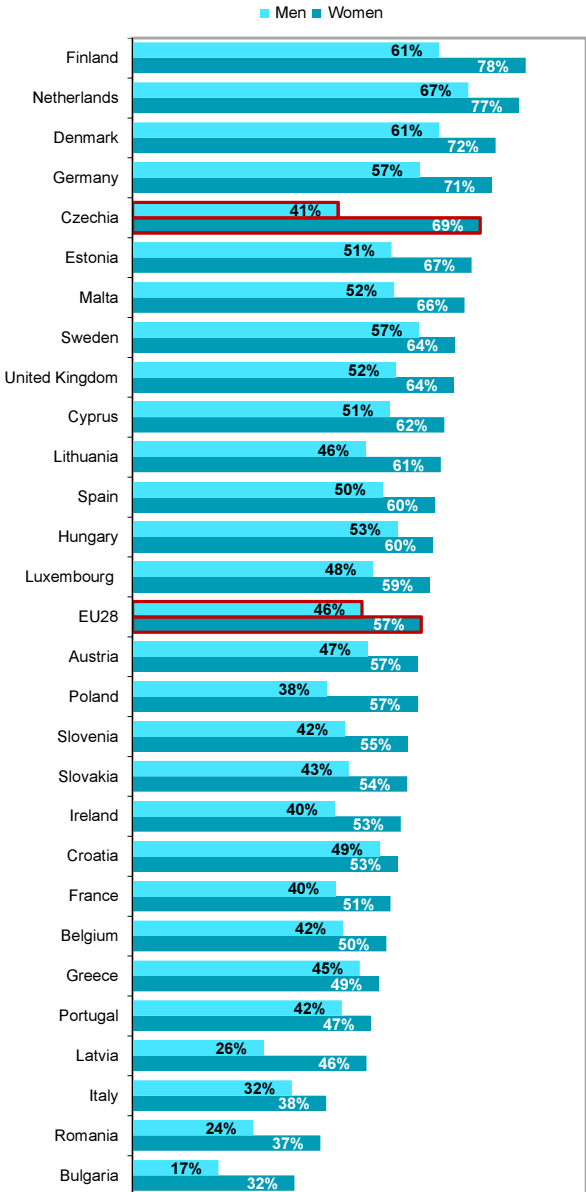


as a percentage of all individuals in a given age group and country

Source: Eurostat, 2019

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Figure G15 Seeking health-related information on the Internet among men and women in EU countries; 2018



as a percentage of all men and women aged 16 to 74 years in a given country

Source: Eurostat, 2019

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Tab. G6 Individuals in Czechia who made an appointment or consultation with a practitioner via a website or an app; 2018

	Percentage	
	Online appointment	Online consultation
All individuals (aged 16+ years)	8,8	5,1
All individuals (aged 16-74 years)	9,5	5,5
Sex		
Men (aged 16+ years)	5,3	3,0
Women (aged 16+ years)	12,1	7,0
Age group (years)		
16-24	6,9	2,3
25-34	13,5	8,8
35-44	11,2	7,6
45-54	11,3	5,7
55-64	8,1	4,0
65+	2,8	1,9
Educational attainment (of the aged 25+)		
Primary	2,0	1,4
Secondary without A-level examination	4,3	2,1
Secondary with A-level examination	11,2	6,3
Tertiary	17,6	12,2
Economic activity status		
Women on maternity leave	17,6	15,2
Students (aged 16+ years)	7,4	2,4
Pensioners	2,9	1,6

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

Figure G16 Individuals who made an appointment with a practitioner via a website or an app by sex and age; 2018

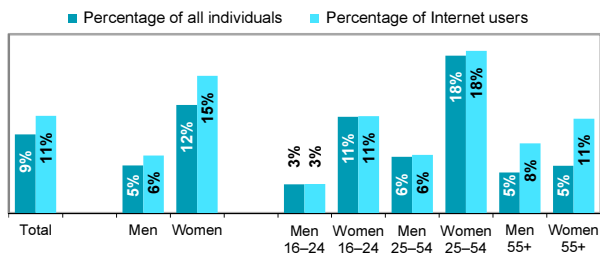
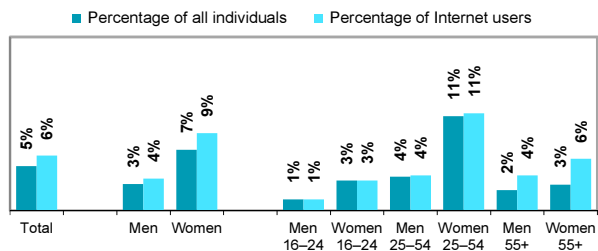
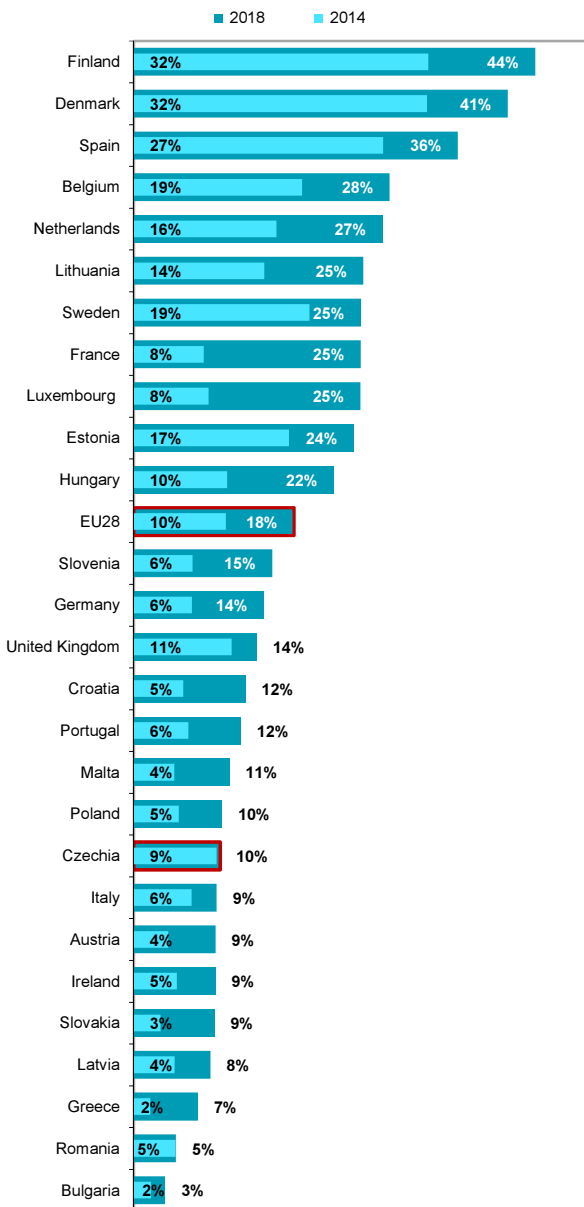


Figure G17 Individuals who consulted with a practitioner via a website or an app by sex and age; 2018



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Figure G18 Individuals in EU countries who made an appointment with a practitioner via a website or an app

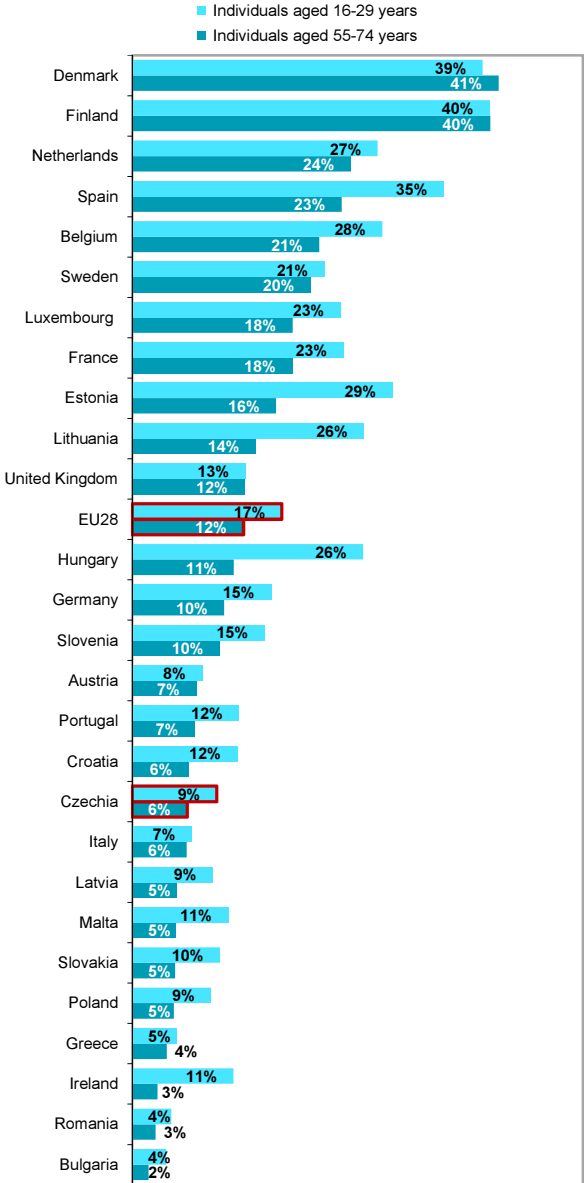


as a percentage of all individuals aged 16 to 74 years in a given country

Source: Eurostat, 2019

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Figure G19 Making an appointment with a practitioner via a website or an app among younger and older generation in EU countries; 2018



as a percentage of all individuals aged 16 to 29 and 55 to 74 in a given country

Source: Eurostat, 2019