Medicine Shortages PGEU Survey 2022 Results





PGEU Medicine Shortages Survey 2022

- Each year PGEU conducts a survey among its membership to map the impact of medicine shortages across Europe from the community pharmacists' perspective.
- The 2022 Survey was open to <u>all PGEU member organisations</u> and has been conducted between 14th November 31st December 2022.
- 29 PGEU members (1 response per country) responded to the survey:

Countries that participated in the survey Austria Latvia Belgium Malta Netherlands Bulgaria Croatia Poland Portugal Cyprus Czech Republic Romania Denmark Slovakia Estonia Slovenia Finland Spain France Sweden Germany Norway Greece Kosovo Hungary North Macedonia Ireland Turkey Italy



For the purpose of this survey, the term "medicine shortage" was defined as every (temporary) inability for community or hospital pharmacy to supply patients with the medicinal product requested as a result of factors beyond their control, requiring the dispensing of an alternative agent or even discontinuation of an ongoing medical therapy. In terms reporting/notification of medicine shortages, respondents were asked to apply their national definition if available.





Among the key findings of the survey are:



The continued high incidence of medicine shortages in most European countries, which worsened substantially compared to the last year in the majority of the countries.



The confirmation of occurring shortages of medical devices across all categories available in pharmacies, with stronger differences among countries.



The average time spent by pharmacists to deal with shortages has increased and reached a maximum compared with the last 3 years.



The daily and burdensome impact of medicine shortages on patients and pharmacy practice across Europe, which has deteriorated when compared to previous years.



The existing gap in needed information, tools and legal solutions available to community pharmacists in many European countries for providing solutions to patients in case of a shortage.

Policy Recommendations

To effectively address the growing problem of medicine shortages in Europe, **PGEU** calls on policy makers to adopt urgent, bold and ambitious measures, namely:

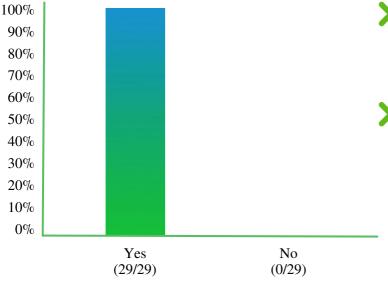
- Ensure availability: All stakeholders and governments must put patients' needs first when developing business policies, national laws and strategies that can affect the timely and adequate supply of medicines. Effective compliance with EU and national laws related to the public service obligations of supply chain actors needs to be assured.
- **Widen professional competence**: The scope of pharmacy practice should be extended when medicines are in short supply, so pharmacists can use their skills, knowledge and experience to better manage patient care and guarantee continuity of treatment. Shared electronic communication tools offer opportunities for an effective and close collaboration with prescribers to ensure continuity of care and patient safety.
- Improve transparency, reporting, monitoring and communication on medicine shortages



For more information please read the <u>PGEU Position Paper on Medicine Shortages</u>.

Question 1. In the last 12 months, have you experienced shortages of medicines in community pharmacy in your country?

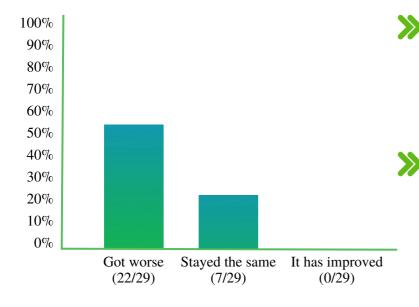
(% of responding countries)



- 100% of responding countries experienced medicine shortages in the last 12 months.
- In 2019, 2020, and 2021 medicine shortages were also experienced in all responding countries.

Question 2. If you have experienced shortages, how would you compare to the situation in the previous 12 months:

(% of responding countries)



- Compared to the previous 12 months, in 2022, in 22 of the 29 responding countries the situation has gotten worse (75,86%) and stayed the same in 7 countries (24,14%).
 - In 2021, in 7 of 27 responding countries the situation has gotten worse (25,93%) and stayed the same in 14 countries (51,85%), and it eventually improved in 6 country (22,22%).



Comments received:



Belgium

The number of unavailable medicines is stable but there are more shortages of very commonly used medicines. The latter gives, especially at patient level, the feeling that the problem grows day by day.



Portugal

The number of medicines on shortage communicated by the marketing authorization holders has increased in the last few months. Also, the number of medicines reported by pharmacies as unavailable has increased by about 30% compared with the same period (September 2021 vs September 2022).



Ireland

The Irish Pharmacy Union keeps a medicines shortages list. Whilst in November 2021 there were 245 medicines shortages, in November 2022 there were 348 medicines shortages.



Spain

CISMED, the information system that allows community pharmacies to report medicine supply incidents, identified 140% more shortages than in the previous year 2021.



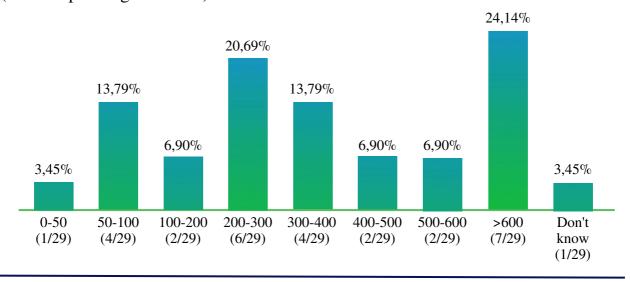
Question 3. If you have experienced shortages in the last 12 months in your country, which medicines have been in short supply in community pharmacy? (ATC Level 1, multiple answers per country)

(% of responding countries)

Cardiovascular medications Nervous system 79.31% Anti-infectives for systemic use (e.g. antibiotics) Respiratory system 75.86% Antineoplastic and immunomodulating agents 68.97% Musculo-skeletal system 65.52% Systemic hormonal preparations 65.52% Dermatologicals 65.52% Blood and blood forming organs 65.52% Gastrointestinal medications 62.09% Genito-urinary system and sex hormones	Medicines	Responding countries (%)
Anti-infectives for systemic use (e.g. antibiotics) Respiratory system 75.86% Antineoplastic and immunomodulating agents 68.97% Musculo-skeletal system 65.52% Systemic hormonal preparations 65.52% Dermatologicals 65.52% Blood and blood forming organs 65.52% Gastrointestinal medications Various Genito-urinary system and sex hormones 79.31% 79.31% 75.86% 68.97% 65.52% 65.52% 65.52% 62.09%	Cardiovascular medications	82.76%
Respiratory system 75.86% Antineoplastic and immunomodulating agents 68.97% Musculo-skeletal system 65.52% Systemic hormonal preparations 65.52% Dermatologicals 65.52% Blood and blood forming organs 65.52% Gastrointestinal medications 65.52% Various 62.09% Genito-urinary system and sex hormones 62.09%	Nervous system	79.31%
Antineoplastic and immunomodulating agents Musculo-skeletal system Systemic hormonal preparations Dermatologicals Blood and blood forming organs Gastrointestinal medications Various Genito-urinary system and sex hormones 68.97% 65.52% 65.52% 65.52% 65.52% 62.09%	Anti-infectives for systemic use (e.g. antibiotics)	79.31%
Musculo-skeletal system 65.52% Systemic hormonal preparations 65.52% Dermatologicals 65.52% Blood and blood forming organs 65.52% Gastrointestinal medications 65.52% Various 62.09% Genito-urinary system and sex hormones 62.09%	Respiratory system	75.86%
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Genito-urinary system and sex hormones 62.09%	Gastrointestinal medications	65.52%
	Various	62.09%
	Genito-urinary system and sex hormones	62.09%
Vaccines 55.17%	Vaccines	55.17%
Sensory organs 55.17%	Sensory organs	55.17%
Antiparasitic products, insecticides and repellents 48.28%	Antiparasitic products, insecticides and repellents	48.28%

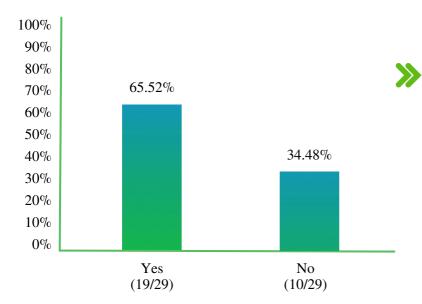
Question 4. How many medicines are short in supply at the time of completing this survey? (according to your national definition of a medicine shortage if applicable)?[1]

(% of responding countries)



Question 5. In the last 12 months, have you experienced shortages of medical devices in community pharmacy in your country?

(% of responding countries)



65,52% of responding countries experienced shortages of medical devices in community pharmacy in the last 12 months.

Question 6. If you have experienced shortages of medical devices in your country in the last 12 months, which types of medical devices have been in short supply in community pharmacy? (EU Medical Devices Regulation classification, multiple answers per country)

(% of responding countries)

Medical devices	Responding countries (%)
N/A. There have been no medical devices shortages in my country in the last 12 months	13.79%
Class I (low-risk - e.g. bandages, thermometers, surgical face masks)	20.69%
Class IIa (medium-risk - e.g. lancets, needles, short-term contact lense	es) 20.69%
Class IIb (medium to high-risk - e.g. oxygen concentrator)	13.79%
Class III (highest risk - e.g. contraceptive intrauterine devices)	6.90%
In-vitro diagnostics (e.g. self-tests)	17.24%
There is no medical devices shortage monitoring system	48.28%

Question 7. In your experience, how have medicine shortages adversely affected patients in your country?

(multiple answers per country, % of responding countries)

93.10% 89.66% 72.41% 58.62%

Distress and inconvenience (27/29)

Interruption of treatments (26/29)

Increased co-payments (21/29)

Sub-optimal treatment (17/29)

34.48%

21.14%

13.79%

Medication errors (10/29)

Adverse events (7/29)

Death (4/29)



Comments received:



Denmark

In most cases the pharmacy is able to substitute to another medicine yielding equal effect. In severe cases the doctor's authorization is required to change the which prescription inconvenience for the patient.





France

Cases have been recorded about patients taking duplicate doses of their medicine due to unavailability of their usual generic medicine and further dispensing of another equivalent generic medicine, doesn't look the same, thus causing confusion and medication errors.



A case has been recorded of one patient who committed suicide due to not getting their psychiatric medication because of medicines shortage.



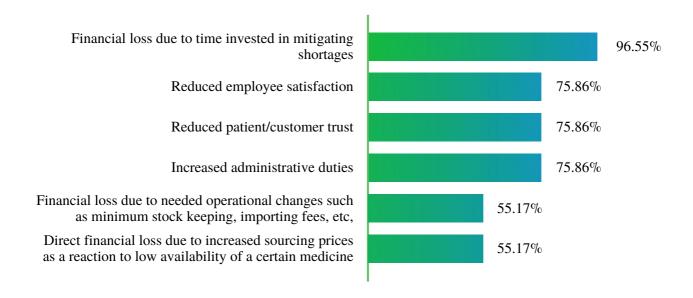
Spain

Problems have been observed with some medicines, namely those which cannot be substituted, inhalers for COPD medicines for digestive and metabolic disorders. In addition, there have been disruptions unexpected supply amoxicillin oral suspensions for paediatric use in the last weeks that have been turning into official supply problems.

(16/29)

Question 8. In your opinion, how have medicine shortages affected community pharmacies in your country?

(multiple answers per country, % of responding countries)



Question 9. Which solutions can legally be offered by pharmacists in case of a shortage? [2] (multiple answers per country, % of responding countries)

93.10%	62.07%	62.07%
Generic substitution (27/29)	Sourcing the same medicine from alternative authorised sources (18/29)	Preparing a compounded formulation (18/29)
55.17%	44.83%	20.69%
Changing to the same medicine with a different strength	Importing the medicine from another country	Therapeutic substitution (6/29)

(13/29)



Comments received:



Austria

Generic substitution, preparing a compounded formulation, changing to the same medicine with a different strength when still available - adjusting therapy posology accordingly - and therapeutic substitution can only be offered after consultation with the prescribing doctor.



Most of the above-mentioned solutions can only be offered in coordination with the prescriber and potential changes to the prescription.



France

Sourcing directly from manufacturers is authorised, sourcing from other pharmacies is not. Changing to a different strength and posology is possible but only after agreement from the prescriber. Therapeutic substitution is possible according to guidelines issued by the Medicines Agency in case of shortage of critical medicines. Otherwise, the patient needs to come back to the pharmacy with a new prescription for the new treatment. Preparing a compounded formulation is possible in the form of a magistral formula with a prescription for a given patient. The compounded formulation is reimbursed only if the medicine is officially registered as unavailable (not just in short supply) on the website of the National Medicines Agency.



Malta

In some case the implementation of the above-mentioned solutions such as therapeutic substitution requires the agreement of the prescriber.

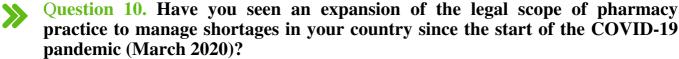


Sweden

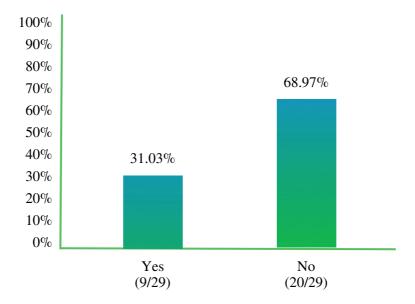
Spain

Preparing a compounded formulation can only be done after a new prescription from the prescriber. Compound formulation is carried out by one major "ex tempore-pharmacy" delivering to all pharmacies. Importing from another country requires a special application to the Medical Product Agency and a new prescription.

Following supply problems with paediatric amoxicillin suspensions during the last quarter of 2022, the Spanish Agency for Medicines and Medical Devices (AEMPS) has temporarily enabled pharmacists to substitute different dosage forms of amoxicillin (e.g. suspensions for tablets). This highlights the feasibility of this type of substitution and makes the pharmacist a key player in providing solutions to supply problems, informing patients about existing alternatives and how to correctly prepare and administer the substitution medicine to the child.



(% of responding countries)





Comments received:



New legislation has been introduced since COVID-19. It includes specific substitution rights for pharmacists, transparency rules of stock levels for marketing authorization holders and wholesalers, export bans in case of shortages.



Pharmacies have been required to report stock status of all critical medicines every day. In addition, the Danish Medicines Agency has been given the right to redistribute medicines if deemed necessary.

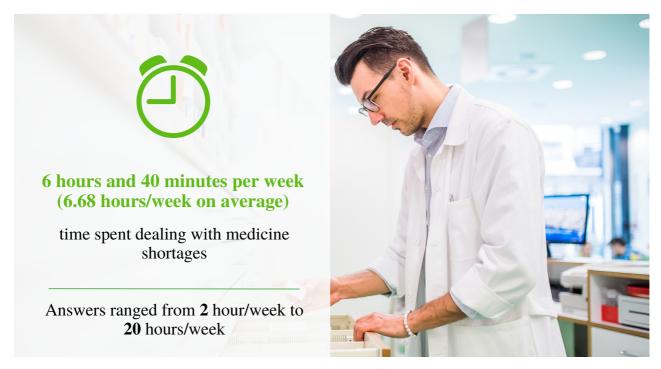


Pharmacists have been given more options to deviate from the packaging size, number of packages or strength, in case the prescribed medicine is unavailable and to substitute it with a pharmacologically and therapeutically comparable medicine in order to reduce repeated patients' visits to the pharmacy and/or to the doctor's office.



In the case of substitution by pharmacists of paediatric amoxicillin suspensions by other dosage forms (tablets) or adaptations in electronic prescription systems for the correct implementation of such substitutions.

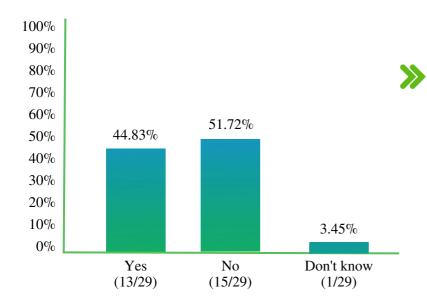
Question 11. On average, per week, how much time does pharmacy staff spend dealing with medicine shortages?



In 2020, pharmacy staff spent 6,3 hours/week on average. In 2021, pharmacy staff spent 5,3 hours/week on average.

Question 12. Is there a commonly agreed definition of medicine shortages in your country, and/or is there a definition of medicine shortages at national legislation?

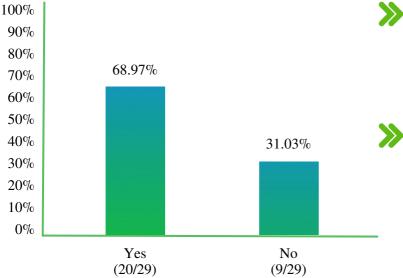
(% of responding countries)



In 13 out of the 29 responding countries there is a commonly agreed definition and/or this definition of medicine shortages is enshrined at the national legislation.

Question 13. Does your country have (a) reporting system(s) for shortages in place which can be used by community pharmacists?

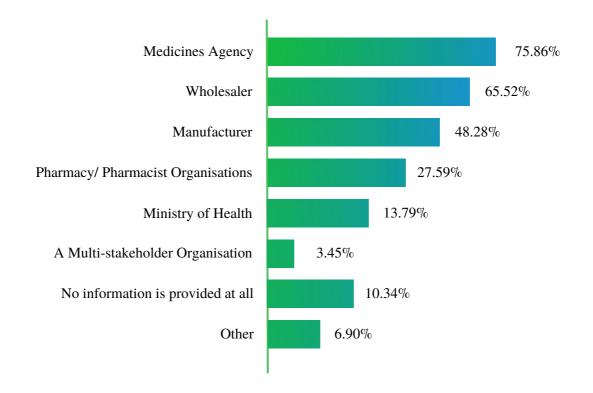
(% of responding countries)



In 20 out of the 29 countries surveyed (68,97%), there are reporting systems for shortages in place that can be used by community pharmacists.

In 2019 (18 countries), 2020 (20 countries) and 2021 (17 countries) had a reporting system for shortages in place which can be used by community pharmacists.

Question 14. Who provides data / information on medicine shortages to pharmacists in your country? E.g. - How long they will be unavailable for? / When you should expect them to be available (multiple answers per country, % of responding countries)



Question 15. In your opinion, what have been the 3 most common causes of shortages in your country?

(multiple answers per country, % of responding countries)

65.52

Disruption / suspension of the manufacturing process (19/29)

55.17%

Quota imposed by manufacturer (16/29)

48.28%

Unexpected / high increase in demand (14/29)

41.38%

National pricing and procurement strategies (16/29)

34.48%

Commercial market withdrawals (13/29) 31.03%

Parallel export out of my country (6/29)

20.69%

Logistical supply chain inefficiencies (16/29)

10.34%

Delays in marketing authorisation (13/29)

10.34%

Product recalls (6/29)

Main Findings



All responding countries experienced medicine shortages in community pharmacies in the past 12 months. Contrary to the positive tendency from the last year, the majority of the countries reported that the situation got worse compared to the previous 12 months (75,86%), or stayed the same (24,14%). There were no countries which registered improvements.



All classes of medicines are affected by medicine shortages in community pharmacies across the different responding European countries. Cardiovascular medicines have been short in supply in the highest percentage of countries (82,76%), followed by both medicines for the nervous systems and antiinfectives for systemic use - antibiotics (79,31%), and medicines for the respiratory system (75,86%).



In the majority of responding countries (24,14%), over 600 medicines were listed as in short supply at the time of completing this survey. Compared to the previous year (median over 200-300 medicines in short supply), the evidence suggests that year to date analysis in the countries shows worsening of the situation.



65,52% of responding countries indicated that they had experienced shortages of medical devices in community pharmacies. These shortages have been experienced among almost all classes of medical devices (I, IIa, IIb), including *in-vitro* **diagnostics**. However, countries reply that in most cases there is not a medical device shortage monitoring system that helps to clarify the real situation.



Almost all responding countries indicated that they believe medicine shortages cause distress and inconvenience to patients (93,10%). Interruption of treatments (89,66% of countries), increased co-payments as a result of more expensive/non-reimbursed alternatives (72,41%) and suboptimal treatment/inferior efficacy (58,62%) are also perceived as common negative consequences of medicine shortages on patients. Compared to the previous year, these percentages have increased.

Main Findings



Medicine shortages affect community pharmacy businesses in most countries by **financial loss** due to time invested in mitigating shortages (96,55% of countries), and equally **reduced patient trust**; **reduced employee satisfaction**; and **increased administrative duties** (75,86%).



Across European countries, **strong differences** exist in terms of **legal solutions** community pharmacists can offer in case of a shortages. **Generic substitution** (93,10% of countries), **sourcing the same medicine from alternative authorised sources** and preparing a compounding formulation (both 62,07%) are the solutions which can be provided in most countries. However, some of these solutions are subject to restrictions (e.g. new prescription is needed) and can be cumbersome and time-consuming for the patient and the pharmacist.



The time pharmacy staff has to spend on dealing with medicine shortages is **6,68 hours per week on average**, which is substantially higher than the time reported in 2021 (5,3 hours), 2020 (6,3 hours per week) and 2019 (6,6 hours per week). Pharmacists spend on average 6 hours and 40 minutes per week actively managing shortages.



51,72% of respondents indicated that there is not a commonly agreed definition of medicine shortages in their country, and 31,03% indicated that there is still not yet a reporting system for shortages in place which can be used by community pharmacists.



The main causes for shortages have been pointed out as disruption/suspension of the manufacturing process (65,52%), quota imposed by the manufacturer (55,17%), and unexpected/high increase in demand of medicines (48,28%), such as in the case of paediatric formulations of antibiotics.

Policy Recommendations

In most cases community pharmacists are still managing to ensure continuity of care and minimise the impact of shortages on their patients' health. However, the situation is worsening and PGEU calls for a number of coordinated actions that should be taken at different policy levels to reduce the burden of medicine shortages:

- Ensure availability: In developing business policies and national laws and strategies all stakeholders and governments must put patients' needs first. These strategies should first and foremost aim to ensure timely and adequate supply of medicines to patients. The full impact of policies aimed at reducing medicine prices on the supply and availability of medicines needs therefore to be taken into account by policy makers. Moreover, appropriate measures need to be taken to ensure compliance with EU and national laws related to the public service obligations for marketing authorisation holders and wholesaler distributors, taking into account the dynamics of the EU internal market.
- Widen professional competence: The scope of pharmacy practice should be extended when medicines are in short supply, so pharmacists can use their skills, knowledge and experience to better manage patient care and ensure continuity of treatment. When a medicine is not available, pharmacists should be allowed to substitute with the most appropriate alternative as part of a shared decision-making process with prescribers and patients or in accordance with national protocols where appropriate. Shared electronic communication tools between pharmacists and prescribers (e.g. shared electronic health records) can enable this process effectively and safely.
- Develop effective governance systems: A close collaboration between EU Member States and the European Medicines Agency (EMA) is needed to improve reporting, monitoring and communication on medicine shortages. At national level, more structural, timely and transparent collaboration models between supply chain stakeholders and national competent authorities must be developed in order to increase the efficiency and effectiveness of joint notification and assessment practices, and to empower pharmacists in reducing the impact on European patients.
- Improve communication: It is vital to ensure greater transparency and availability of medicine shortages data and encourage early detection and central assessment of potential shortages by connecting all medicine supply chain actors and NCAs at national level in consistent reporting systems. It is also necessary to increase access to the information available across all parts of the supply chain.
- Compensate financial impact: The resource investment by pharmacists and pharmacies to manage shortages be recognized and valued.

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