Public information on shortages in the EU/EEA: improvements made between 2018 and 2020

Inga Abed 1, Juan Garcia Burgos 1, Yngvil Knudsen 2

ABSTRACT

Background In July 2019, the Heads of Medicines Agencies/European Medicines Agency (HMA/EMA) Task Force on Availability of Authorised Medicines for Human and Veterinary Use (TFAAM) published good practice guidance which provides key principles for European Union (EU) regulatory authorities for communication on shortages and availability issues. The use of a shortage catalogue was a key recommendation.

Objectives To assess how EU/European Economic Area (EEA) national competent authorities have implemented the recommendations of the good practice guidance.

Methods A survey was run in 2020 among EU/EEA national competent authorities to assess communication practices. The results were compared with those of a similar survey carried out 2 years earlier, before publication of the guidance. The survey covered human medicines only and was sent to 31 authorities: one per EU/EEA member state (and two to Germany’s two medicines regulatory authorities).

Results In 2020, 81% of authorities (25/31) had a dedicated public shortage catalogue on their website. This was an increase from 74% (23/31) in 2018, when a similar survey was run. In future this is expected to increase to 87% with two more member states making plans to implement catalogues. Although many member states publish information on shortages there is still selection in terms of the details that are being published, and there is further scope to extend the information currently provided.

Conclusion Since publication of the EMA/HMA good practice guide in 2019, transparency has increased across the EU/EEA, and public catalogues of shortages are now a routine tool used by many medicines agencies. Further opportunities to improve transparency on supply issues lie ahead with the EMA network strategy to 2025, the revised EU pharmaceutical legislation and the new legal mandate reinforcing the role of the EMA.

INTRODUCTION

Medicine shortages have long been a concern across the European Union (EU) and globally, and the COVID-19 pandemic has further increased their impact. Shortages significantly impact patient care as they can lead to a delay of critical treatments, and require switching to alternatives which can be less effective or may increase the risk of medication errors and adverse events.1 Healthcare professionals deal with shortages on a daily basis, and an important part of their work involves sourcing alternatives and advising patients on how to use them. In addition to the impact on patients, the impact on the work of healthcare professionals, especially pharmacists and prescribers, is significant, and has been repeatedly highlighted in recent years. Pharmacists are spending a significant amount of time dealing with shortages, including sourcing alternatives, while prescribers’ workload also increases as patients are sent back to their doctor when a medicine is out of stock at the pharmacy. It is often the case that the prescriber learns about a medicine shortage when a patient returns to them after being unable to collect their prescription at the pharmacy.2

A survey carried out in 2018 among hospital pharmacists showed that 91.8% were dealing with shortages in their hospital pharmacy, compared with 86.2% in 2014.3 In 2021, community pharmacists reported spending an average of 5.1 hours per week dealing with shortages, including sourcing alternatives.4

To manage shortages, healthcare professionals need timely information to help them plan, ration existing stocks, source alternatives and implement necessary changes to clinical practice linked to the use of alternatives. Timely information is essential so that patients can be switched to an alternative if needed and given necessary training to avoid treatment interruption.

European healthcare professional and patient organisations have long called on national
governments and the European Commission to improve communication on medicines shortages and asked for a communication strategy on shortages targeting all EU member states.³ Research confirms that national medicine shortage catalogues are valuable in providing the necessary information to healthcare professionals and patients to address shortages quickly and efficiently.³ At an European Medicines Agency (EMA) workshop in 2015, stakeholders (industry, national competent authorities and patient and healthcare professional organisations) called for an improvement of communication channels for exchanging information on shortages.⁶

An open and transparent approach to communication between regulators, healthcare professionals and patients not only improves preparedness and lessens the impact of shortages but also helps to maintain and improve trust in the regulatory system. Ensuring that healthcare professionals are better prepared will also increase the trust patients have in them.

Information on shortages for the public has gradually increased in the past years. Literature reports suggest that in 2014 only seven EU member states had a national medicine shortage catalogue.⁷ Reports show that in 2017 this number had increased to 12.

In 2016, EMA established its public catalogue for shortages. In December 2016, the EMA and the Heads of Medicines Agencies (HMA) set up an HMA/EMA Task Force on Availability of Authorised Medicines for Human and Veterinary Use (TFAAM) to provide strategic support and advice to tackle disruptions in the supply of human and veterinary medicines and ensure their continued availability. One of the key priorities of the task force include enhancing communication of supply problems to EU/European Economic Area (EEA) citizens by improving timely access to up-to-date information for all actors within the network.⁸ A key objective was to develop good practice guidance for communication to the public on medicines’ availability issues, advising EU/EEA authorities on the minimum set of information as well as criteria for public communication on medicine shortages and availability issues. The guidance was published in July 2019⁹ following a survey in 2018 to map communication practices at member state level to understand the EU/EEA landscape of public information on shortages. It lays the foundations for an improved and harmonised approach in the EU/EEA to communicating on medicine shortages.

The guidance aims to promote good practice of public communication on shortages and availability issues by:

- Enhancing current communication to the public and ensuring a multidisciplinary approach within regulatory authorities.
- Aligning criteria for publication across the EU network.
- Increasing visibility and accessibility of information on the availability on medicines.
- Fostering interaction with stakeholders.

In 2020, the task force carried out another survey to assess how publication practices on shortages have changed.

**METHODS**

**Design of the study**

In 2020 a survey was sent by email to the EU single points of contact (SPOC) network, which is a network of experts dealing with supply issues at national medicines agencies in EU/EEA member states.⁹ The survey covered human medicines only and was sent to all 31 SPOCs: one SPOC per EU/EEA member state (two for Germany as it has two medicines regulatory authorities). After the UK’s withdrawal from the EU, the UK was not surveyed. The survey was sent on 22 October 2020 with a call for action by 5 November 2020. On 4 November 2020 a reminder with an extension of deadline of 1 December 2020 was sent to six SPOCs who had not yet responded. On 1 December 2020 a final reminder was sent asking for feedback within a week, after which two responses were missing.

**Data analysis**

The 2020 survey consisted of several questions as detailed in the online supplemental annex.

The authors analysed the results and compared them with the results of the 2018 survey. Any changes in publication practices were confirmed by checking catalogues online. Where answers were unclear this was followed up with SPOCs directly and answers were amended accordingly.

**RESULTS**

The response rate to the survey was 94% (29/31). For the two missing member states the websites were checked to assess whether they have a public catalogue. Overall, 81% of EU/EEA authorities (25/31) published a public catalogue with information on shortages of individual medicines (see online supplemental table 1).

In terms of improvements made since 2018, seven authorities answered that they had implemented changes to their publication practices affecting either the criteria for publication or the type of information published in their shortage catalogue. Two agencies implemented a catalogue for the first time. In addition, Ireland implemented a shortages catalogue in 2018; however, this was not highlighted in the survey. The two member states that did not respond to the survey do not currently have a catalogue, and their plans for implementing a catalogue are therefore unknown. Nine authorities indicated that they had plans for future improvement whereas twelve member states stated that they did not have any plans for changes (this includes one member state that does not have a catalogue in place). Planned changes included the implementation of a catalogue for three

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**Figure 1** Number of competent authorities that made direct changes to their publication practices on shortages and availability issues since publication of the communication practices.
DISCUSSION

Main findings

Since publication of the EMA/HMA good practice guide on communication in 2019, transparency has increased across the EU/EEA, with several member states planning further increases in the level of information they publish.

Although some member states implemented changes or a new catalogue since publication of the guidance, it is unclear whether these changes would not have happened without the publication of the guide. The COVID-19 pandemic may also have been another factor that influenced the increase in transparency on shortages, as has been the case for the EMA, with increased transparency seen for COVID-19-related communication. The response to the question about future plans also reflects an intention which may or may not become reality.

In addition to the areas for improvement highlighted by national agencies there are other improvements that can be made to align with the recommendations of the guidance, but these are not in the planning. It is therefore important to continue promoting the guidance and to monitor how publication practices change over time, whether the plans highlighted are indeed implemented or further changes are envisaged. In addition, it will be important to assess the value of this information and how these catalogues are used by patients and healthcare professionals, and to promote their use in this stakeholder group.

This is particularly important in light of a recent survey carried out with members of eligible organisations (see: https://www.ema.europa.eu/en/partners-networks/healthcare-professionals/eligible-healthcare-professionals-organisations) in the context of the EMA’s annual meeting on 15 November 2022. The results showed a lack of awareness among patients and healthcare professionals, with 72% of surveyed healthcare professional representatives being unaware of either EMA or national shortages catalogues and 63% of patient representatives being unaware of the catalogues. In this context, the good practice guidance for patient and healthcare professional organisations on the prevention of shortages of medicines for human use was published in 2022, which reiterates the need for information for patients and healthcare professionals and the need to promote the use of the catalogues. It further highlights the important role healthcare professionals and patients play in the identification, detection and reporting of shortages which should be further expanded.

CONCLUSION

Information on shortages has become more accessible over the last 10 years and public catalogues of shortages are increasingly used by national medicines agencies to provide information to their stakeholders, including patients and healthcare professionals. The results of the latest survey are encouraging and show that transparency of information on shortages has come a long way. However, levels of transparency remain variable across member states and further improvements are needed to meet the demands and needs by patients and healthcare professionals. This includes information on alternatives or duration of shortages, which is very valuable information for healthcare professionals and patients.

Overall, the EU picture remains fragmented, without a catalogue providing an EU-wide picture. Whereas the EMA only provides information on medicine shortages affecting more than one member state and does not get involved in the day-to-day managing of every shortage, its catalogue cannot provide a full overview of shortages occurring in the EU/EEA. To deal with this, the EMA catalogue provides links to national shortage catalogues. This allows users to complement EMA information with that provided at national level. Although this is helpful and allows users to complement EMA information, it is not optimal.

The future will bring further opportunities to provide better information to patients and healthcare professionals with the EMA network strategy to 2025, the revision of the EU pharmaceutical legislation and the new legal mandate reinforcing the role of EMA in supply shortages in times of crisis.
REFERENCES