

Welcome to our Survey

Dear reader,

Thank you for participating in our survey. Your feedback is very important to us.
This survey should take approximately 15-30 minutes.

Around the world a variety of professionals are involved in 'health supply chains' (*the supply chain responsible for moving medicines and medical equipment from manufacture to the patient*). In some countries these are professional logistics and supply chain personnel. In other countries, health personnel (*pharmacists, doctors, nurses*) and in many countries a combination of these.

A *pharmacist* is a scientifically-trained graduate healthcare professional who is an expert in all aspects of the supply and use of medicines. Pharmacists assure access to safe, cost-effective and quality medicines and their responsible use by individual patients and healthcare systems. (http://www.fip.org/pharmacy_practice)

This survey aims to determine *pharmacist only* competencies and behaviors needed in the health supply chain. Understanding such competencies can maximize supply chain efficiency, and highlight gaps in personnel, education, and/or training. This evidence may also support the best utilization of existing pharmacists, where pharmacists are few.

We have included a list of 26 behavioral competencies from the People that Deliver *Health Supply Chain Framework for Managers and Leaders*. Please consider if you believe that the pharmacist is the most suitable professional to complete the competencies that are presented and why.

Technical competencies from the following five domains (competency areas) are considered:

1. Selection and Quantification of correct supplies in the right quantities
2. Procurement of supplies needed
3. Storage and Distribution of supplies needed
4. Use of the suppliers in their work situation where patients are treated
5. Resource Management of money/people to ensure the system works efficiently

Thank you.

FIP Pharmacists in Supply Chain Working Group

Please contact Dr. Andrew Brown, Working Group co-chair, anbrown.hss@gmail.com for further information

Demographics

This section looks at your location and role in the medicines supply chain.

* 1. In what country do you work?

Other (please specify)

* 2. What is your job role?

- Pharmacist
- Pharmacist assistant, technician, or other pharmacist workforce cadre (para-professional)
- Supply chain professional (non-pharmacist)
- Other Health Professional (e.g., doctor, nurse, midwife)
- Other (please specify)

* 3. In what type of organization do you currently work?

Other (please specify)

4. Do you have any qualifications from any of the following supply chain certification programs? *Please check all that apply.*

- Supply Chain Management Association (SCMA, SCMP)
- International Institute for Procurement and Market Research (IIPMR)
- Certified Supply Chain Specialist (CSCS)
- Certified Procurement Professional (CPP)
- Institute for Supply Management (ISM)
- Certified Professional in Supply Management (CPSM)
- The Association for Operations Management (APICS)
- Certified Supply Chain Professional (CSCP)
- International Supply Chain Education Alliance (ISCEA)
- Certified Supply Chain Manager (CSCM)
- American Society of Transportation and Logistics (AST&L)
- Certification in Transportation and Logistics (CTL)
- Certified Production and Inventory Management (CPIM)
- Certified Supply Chain Analyst (CSCA)
- Institute of Supply Chain Management (IOSCM)
- Certified Purchasing Manager (CPM)
- Certified Demand Driven Planner (CDDP)
- Chartered Supply Chain Management Professional (CSCMP)
- Pharmacy Technician Certification (CPhT)

Other (please specify)

Pharmacist ONLY Competencies: (1) Selection and Quantification

Technical domain 1: Selection and Quantification

1.1 Select the appropriate product (questions 5-8)

5. Do you agree that a pharmacist is the most suitable professional to 'describe the broad concepts of National Medication Policy, Essential Medicines Lists, Essential Equipment Lists, Standard Treatment Guidelines and "Dangerous Drug" (DDA) or narcotics policy?'

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

6. Do you agree that a pharmacist is the most suitable professional to 'use the processes required to add and subtract items from the Essential Medicines List and the Essential Equipment List?'

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree (pharmacist takes some responsibility), why?

7. Do you agree that a pharmacist is the most suitable professional to 'follow the processes required to alter standard treatment guidelines, dangerous drug policy (i.e. DDA, narcotics), and national medicine policy?'

Agree (pharmacist is the most suitable professional)

Disagree

If partially agree/disagree, please explain why?

8. Do you agree that a pharmacist is the most suitable professional to 'confirm the type of medical supplies that are required to be kept?'

Agree (pharmacist is the most suitable professional)

Disagree

If partially agree/disagree, please explain why?

Technical domain 1: Selection and Quantification

1.2 Define the specifications and quality of the product (question 9)

9. Do you agree that a pharmacist is the most suitable professional to 'advise on product specifications (e.g. active ingredient, form, pharmacopeia standard) for the procurement of medicines?'

Agree (pharmacist is the most suitable professional)

Disagree

If partially agree/disagree, please explain why?

Technical domain 1: Selection and Quantification

1.3 Take into account any special considerations for the product (e.g., temperature requirements, size, implications for infrastructure) (questions 10-12)

10. Do you agree that a pharmacist is the most suitable professional to 'describe the principles and processes of category management for medicines (i.e. medicines categorized by similar *use* or *storage* needs, such as cold chain, anti-retroviral medicines, controlled substances such as narcotics and psychotropics), including market segmentation principles for common needs and interests?'

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

11. Do you agree that a pharmacist is the most suitable professional to 'demonstrate the required knowledge for the quantification (determining the quantities required to order) of health program-specific medicines (e.g. antiretrovirals, family planning commodities, vaccines, etc)?'

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

12. Do you agree that a pharmacist is the most suitable professional to have 'a working knowledge of the handling requirements for medicines?'

Agree (pharmacist is the most suitable professional)

Disagree

If partially agree/disagree, please explain why?

Technical domain 1: Selection and Quantification

1.4 Forecast and quantify product needs (questions 13-15)

13. Do you agree that a pharmacist is the most suitable professional to 'identify the factors that affect usage patterns for medication (e.g. disease outbreaks, seasonal variation, expanding clinical need), and identify how this affects ordering'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

14. Do you agree that a pharmacist is the most suitable professional to have 'a working knowledge of the critical requirements for effective forecasting of medicines (i.e., predicting future needs)'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

15. Do you agree that a pharmacist is the most suitable professional to 'establish policies and procedures for forecasting control for medicines (i.e., predicting control for medicines)'?

Agree (pharmacist is the most suitable professional)

Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (2) Procurement

Technical domain 2: Procurement

2.5 Assure quality of products (questions 16-18)

16. Do you agree that a pharmacist is the most suitable professional to 'use and monitor the process for pre-qualification of suppliers who are used to purchase medicines from (i.e. selecting appropriate quality approved suppliers.)'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

17. Do you agree that a pharmacist is the most suitable professional to 'ensure that medicines are not counterfeit, and meet quality standards'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

18. Do you agree that a pharmacist is the most suitable professional to 'implement, conduct, and maintain a reporting system of pharmacovigilance (e.g. adverse drug reactions and medicine incident reporting)'?

Agree (pharmacist is the most suitable professional)

Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (2) Procurement

Technical domain 2: Procurement

2.8 Prepare for product supply during disasters and emergencies (questions 19-20)

19. Do you agree that a pharmacist is the most suitable professional to 'describe the procurement and logistic requirements for the emergency supply of medicines in a disaster'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

20. Do you agree that a pharmacist is the most suitable professional to 'undertake the assessment of local capacity before the supply of medicines in an emergency or disaster'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (2) Procurement

Technical domain 2: Procurement

2.9 Undertake or manage manufacturing or compounding products (question 21)

21. Do you agree that a pharmacist is the most suitable professional to 'compound (make a pharmaceutical from base components) under the code of good manufacturing practice (GMP) for the production of medicines'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (3) Storage and Distribution

Technical domain 3: Storage and Distribution

3.4 Manage disposal of products (e.g., expired, damaged, redundant products) (questions 22-23)

22. Do you agree that a pharmacist is the most suitable professional to 'describe and demonstrate the recall procedures to be used in response to a medicine product recall notice'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

23. Do you agree that a pharmacist is the most suitable professional to 'dispose of expired medicines according to national policy'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (3) Storage and Distribution

The following question refer to the *Health Supply Chain Competency Framework for Managers and Leaders* created by People that Deliver. Please consider if you think that a 'pharmacist' is the most suitable professional to complete the following.

Technical domain 3: Storage and Distribution

3.5 Dispense or provide commodities to patients/users (i.e., ensuring the product goes "the last meter" appropriately") (question 24)

24. Do you agree that a pharmacist is the most suitable professional to 'list which medicines are allowed to be prescribed by different prescribers, and monitor this'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (4) Use

Technical domain 4: Use

4.1 Understand use of medical products including medicines and equipment (e.g., safety, dispensing protocols, standard treatment/testing guidelines) (question 25)

25. Do you agree that a pharmacist is the most suitable professional to 'identify medicines by their generic name, and have a general understanding of what medicines are used for'?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

Pharmacist ONLY competencies: (5) Resource Management

Technical domain 5: Resource Management

5.4 Implement quality assurance and risk management activities (question 26)

26. Do you agree that a pharmacist is the most suitable professional to 'implement key security systems and appropriate levels of access for the workplace where medicines are stored (e.g. including, narcotics, other controlled substances and investigational medicines etc' ?

- Agree (pharmacist is the most suitable professional)
- Disagree

If partially agree/disagree, please explain why?

Additional pharmacist ONLY competencies

27. Please list any other competencies or behaviors in the health supply chain where you would consider that a pharmacist is the most suitable professional to complete those competencies or behaviors.

Additional pharmacist ONLY competencies

28. How should any competencies considered to be most appropriately dealt with by **apharmacist**, be addressed in circumstances where pharmacists are NOT available?

29. What other comments would you like to make regarding the work of pharmacists in health supply chains?

The End

Thank you for participating in this survey. We appreciate your time and input very much.

For more questions or comments, please contact Dr. Andrew Brown, FIP Working Group Co-Chair, at anbrown.hss@gmail.com.