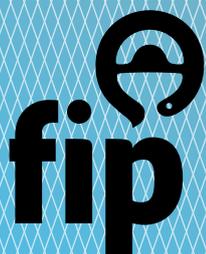


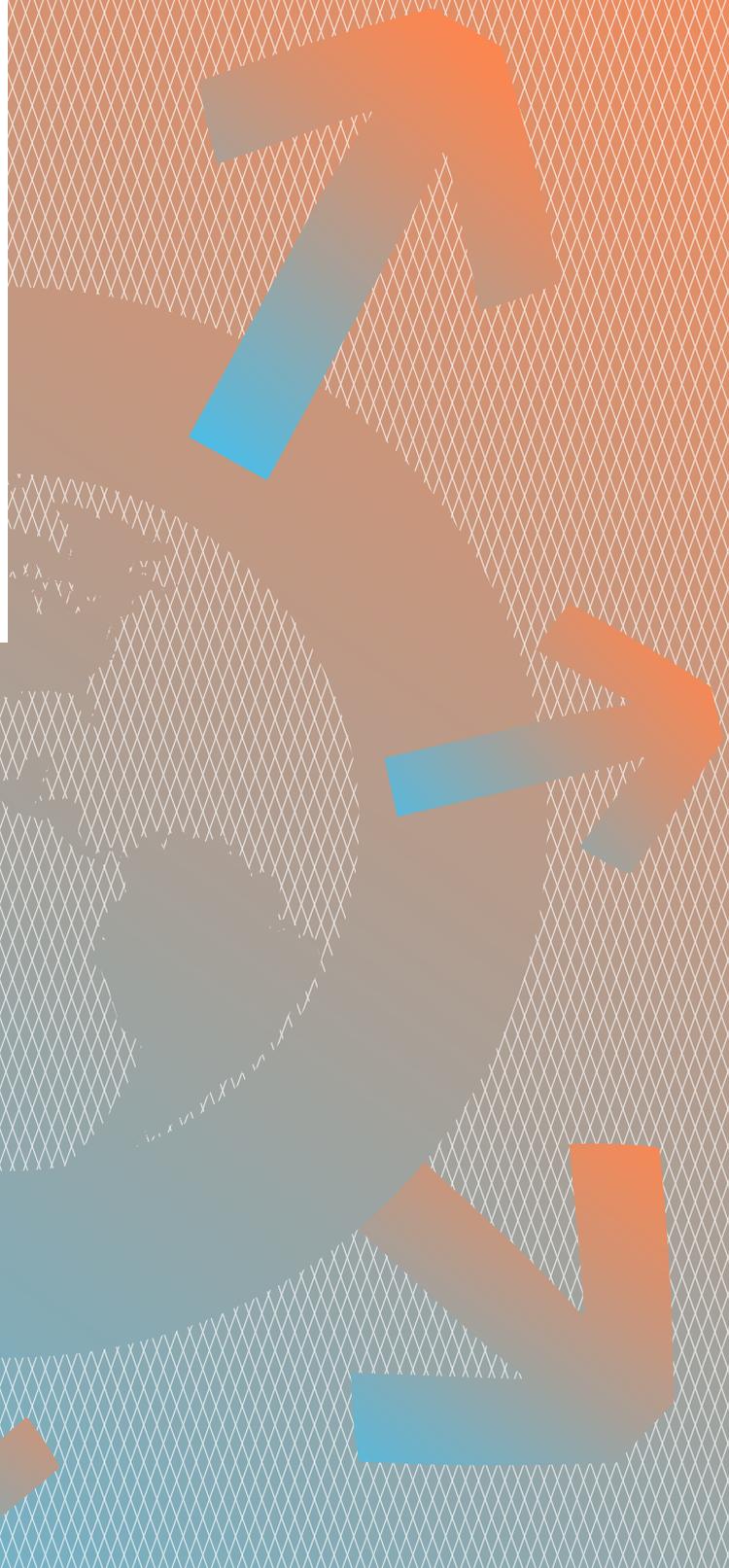
One FIP

Taking action

International
Pharmaceutical
Federation
Annual report 2021



ADVANCING
PHARMACY
WORLDWIDE



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Foreword

2021 — A year of strategic actions

As our pharmacy profession around the world continued to provide care, develop medicines and nurture a new generation of pharmacists in a second year of the COVID-19 pandemic, FIP continued in its mission to support global health by enabling the advancement of pharmaceutical practice, science and education. As we entered 2021, we reflected on our learning during the first year of the pandemic and used it to refine our plans and priority actions.

One of our top strategic priorities in another year when face-to-face meetings were inadvisable was a renewed programme of membership engagement (p13). This work comprised a variety of carefully designed online events involving our member organisations, observer organisations, academic institutional members and regional pharmaceutical forums throughout the year. Indeed, we continued to communicate with all our members weekly and accelerated our digital offering to provide over 160 webinars, symposia and global summits (p31). A “One FIP” approach is evident in these events — with many different groups coming together from across our federation to make them happen.

With our consolidated digital approach, first established in 2020, we progressed the FIP Development Goals (p11), running a series of events to provide insight into each goal and to identify the priorities of nations and regions in the decade ahead to 2030, aligned with the United Nations Sustainable Development Goals. Through our extensive digital programme we also acted on our commitment to the Declaration of Astana (p12), ensuring the profession measurably contributes to primary health care and, therefore, universal health coverage.

Our profession has persevered to deliver to our populations through the variant and asynchronous waves of COVID in different countries. Although we are seeing pharmacists and pharmacies everywhere becoming more central to care, FIP worked hard in 2021 to advocate greater support, calling on governments and policymakers to improve protection for pharmacists and other health workers and invest more in health systems for care that is sustainable so that we are better prepared for future pandemics.

FIP has continued to support the profession across its wide spectrum of practice in tackling COVID and more. A large number of projects, aligned with our strategic plan, came to fruition last year and I invite you to find out more about our actions in the pages of this report. Just one example is our World Pharmacists Day campaign (p25), which saw the message of trust in pharmacy communicated in 195 countries — a record participation and a massive demonstration of solidarity led by FIP.

We have proven that by taking action as One FIP we can achieve many more goals. With trust, solidarity and actions, we will move our profession forward globally and I thank all our members for being part of this exciting journey to advance our profession and health for all.

All this remarkable work could not have been carried out successfully without the commitment and skills of the staff at FIP headquarters under the lead of our CEO Dr Catherine Duggan, and of all our volunteers, including FIP officers and their committees, who give their time, skills and expertise to make our One FIP strategy successful. On behalf of the entire FIP community and myself, I thank all these wonderful people for their support.

Long live pharmacy!

Long live FIP!



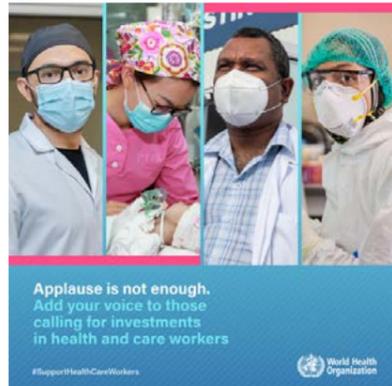
Dominique Jordan

A blue ink signature of Dominique Jordan, written in a cursive style.

President, International Pharmaceutical Federation

Snapshots 2021

Quarter 1: January to March



The International Year of Health and Care Workers demanded action from all stakeholders.

Campaign supports health workers

The World Health Organization designated 2021 as the International Year of Health and Care Workers. This was in appreciation of the dedication of health workers during the COVID-19 pandemic, and also to campaign for investment in, support for and protection of the health workforce. In a [video message](#) to mark the start of the campaign, FIP president Dominique Jordan and the presidents of the other four international organisations that make up the World Health Professions Alliance asked the public to help safeguard underfunded COVID-affected health systems by: requesting lawmakers to better invest in healthcare, healthcare education and careers, and pandemic preparedness; following government advice to avoid close contact with others, wash hands, wear a mask and ventilate rooms; and getting vaccinated. “Protect yourself and your family, and support your community and the health professionals serving you by getting vaccinated,” was Mr Jordan’s message.

New FIP data and intelligence commission meets

Twenty pharmacists from around the world were appointed to the [One FIP Data and Intelligence Commission](#) in January. This commission is tasked with supporting FIP’s Global Pharmaceutical Observatory (GPO) to achieve its vision of becoming the most comprehensive and respected source of pharmacy data and intelligence. The commission was set up so that the GPO has regional applicability and sectoral relevance, with members coming from across FIP and contributing a breadth of experience globally. It provides strategic advice to FIP and validates the integration of GPO activities across the federation and with stakeholders. At its inaugural meeting, the commission’s terms of reference were agreed and success measures for the observatory in the short, medium and longer term were discussed. The GPO continues to inform the advocacy work of FIP’s members and partners based on evidence and intelligence, and is fundamental to delivering the wider FIP vision.

FIP’s Global Pharmaceutical Observatory will become the most comprehensive and respected source of pharmacy data and intelligence.



A new resource from FIP highlighted the value of pharmacist-led medicines reconciliation.

New toolkit to augment patient safety

A [toolkit](#) for medicines reconciliation, launched in February, was the latest in a series of resources produced by FIP to support pharmacists in improving patient safety and contribute to the World Health Organization’s (WHO’s) third Global Patient Safety Challenge — “Medication without harm”. Under this programme of change, the WHO lists care transitions as one of three priority areas that need effective action in order to protect patients, and the new FIP toolkit highlights the value of pharmacist-led medicines reconciliation as a mode of such action. “Medicines reconciliation represents a key service across all transitions of care and, when led by pharmacists, is effective in reducing medication-related harm to patients. With this service, pharmacists can apply their medicines expertise to minimise errors and optimise medicines use, resulting in positive impacts on patient, clinical and economic outcomes,” said FIP CEO Catherine Duggan.

Quarter 2: April to June

Voice at the World Health Assembly

FIP represented the profession at the 74th World Health Assembly in May and June. FIP described to ministers pharmacy’s commitment to preventing antimicrobial resistance (AMR), highlighting the contribution to national AMR action plans by pharmacy associations, and the activities of the FIP Commission on AMR. FIP also urged governments to act for positive practice environments on behalf of the World Health Professions Alliance. Furthermore, advocacy on patient safety, eliminating substandard and falsified medical products, and better emergency preparedness saw FIP collaborate on statements with the Fight the Fakes Alliance, the Health Stakeholders Network, the International Alliance of Patients’ Organizations, the International Council of Nurses, the International Federation of Pharmaceutical Manufacturers and Associations, the International Hospital Federation, the International Pharmaceutical Students’ Federation, the Medicines for Malaria Venture, the World Heart Federation and the World Medical Association.

FIP’s full World Health Assembly statements/joint statements are available at <https://tinyurl.com/338t7zjj>



WHO / Christopher Black.



New resource from FIP helps pharmacists with nutrition and weight management services in order to prevent diseases.

Toolkit encourages bigger role in disease prevention

Poor diets are responsible for more deaths than any other behavioural risk factor, including smoking tobacco, and up to five million deaths per year could be prevented if populations were more physically active, FIP said as it released “[Nutrition and weight management services: A toolkit for pharmacists](#)” in May. Disease prevention is one of three FIP global priorities (along with patient safety and non-communicable diseases) geared to deliver universal health coverage through primary health care (see p12). The toolkit explains the impacts of nutrition in a range of diseases, describes supplementation with micronutrients and weight management strategies (including pharmacological), and presents pharmacist interventions such as education and health coaching. It aims to support pharmacists to be proactive in having conversations on diet and weight with their patients, and to encourage more of the profession to adopt services to tackle poor nutrition and obesity.

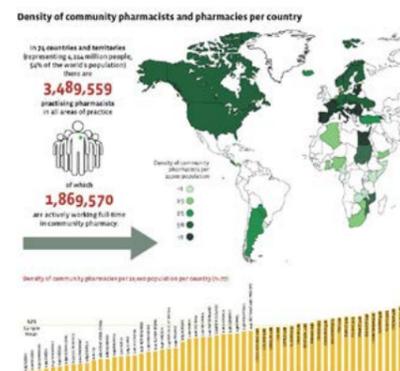
Health professions brought together on vaccination coverage

Leaders of global associations of nurses, doctors, dentists, physiotherapists and pharmacists gathered at a high-level [round table](#) organised by FIP in June. On the agenda was COVID-19, vaccinations against it and other diseases, tackling vaccine hesitancy and inequities of access, and drivers and barriers to diversifying vaccination pathways and providers. “Vaccination coverage rates for several diseases are suboptimal and remain below World Health Organization targets in many countries of all income levels. FIP believes that it is essential to promote dialogue and collaboration around vaccination among healthcare professionals’ organisations at the international level, so that these can be cascaded to the regional, country and local levels,” said FIP CEO Catherine Duggan. “None of us wants to get into a territorial game in health care. . . . Healthcare is a team game and we need to look at how roles function and operate,” said Howard Catton, CEO, International Council of Nurses.

FIP considers it essential to promote dialogue on vaccination coverage among healthcare professionals’ organisations at the international level.



Quarter 3: July to September



FIP's "Community pharmacy global report 2021" gives the most up-to-date snapshot of the state of community pharmacy around the world.

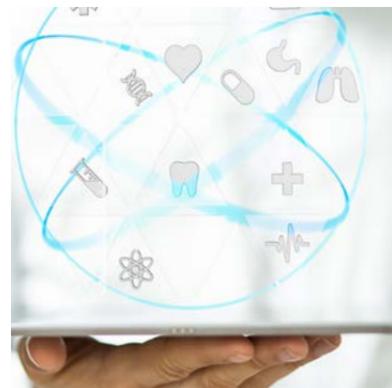
FIP shares research on community pharmacy

July saw the publication of FIP's latest global report on community pharmacy, presenting data from 79 countries. Its findings raised concerns over access to community pharmacies and pharmacists, and patient safety in some regions, which can translate into difficulties in having timely access to medicines and ensuring responsible use of medicines. "The global community pharmacy landscape is in constant evolution. This continued research and sharing of knowledge by FIP is important in order for us to ensure that community pharmacy is well-prepared to serve our populations in the future, to indicate what and where the shortfalls are, and to set directions for work," said Lars-Åke Söderlund, then president, FIP Community Pharmacy Section. FIP's "Community pharmacy global report 2021" gives focus to scope of practice and regulation, distribution of medicines and remuneration. The full report is available to FIP member organisations only but a summary is accessible to all.

Call for action on air pollution

September saw FIP issue a call to action describing the expansion of pharmacists' roles in mitigating the health threats of air pollution. The call was based on priorities identified by a round table of experts organised by FIP in collaboration with The Clean Breathing Institute. It recommends pharmacy services that identify and reduce risk factors (e.g. smoking cessation), educate on nasal hygiene, optimise inhaler technique, and screen for vaccine hesitancy and social vulnerability. However, FIP acknowledged that policies are needed in order to increase public awareness of air pollution and pharmacists' related roles, and to scale up pharmacy education in this field, and described how these can be facilitated. Air pollution is one of the top 10 threats to global health and this call made clear FIP's commitment to advocating air pollution reduction as a health measure and to supporting the profession to provide better respiratory primary healthcare services.

To mobilise pharmacists, FIP also invited individual pharmacists to pledge to become a respiratory health advocate in their community #BreatheBetter.



A new FIP policy statement described actions needed from policymakers, educators, pharmacy organisations and individuals to advance digital health.

FIP leads action on digital health transformation

Recommendations to allow the full potential of digital and technology-enabled solutions to be achieved were made in a new Statement of Policy adopted by the FIP Council in September. This urged pharmacists to be a "driving force" in incorporating evidence-based digital technologies into daily practice and to facilitate patients' digital literacy. To encourage progress, the statement described actions needed by academic institutions, government and policymakers, FIP member organisations and pharmacists. In addition, it pointed out that interoperability is key to successful digital health and committed FIP to advocating the adoption of common digital standards, terminology and taxonomy. "We expect the impact of digital advances, such as predictive and personalised medicine, facial recognition, natural language processing and augmented reality, to gain even greater significance. We must be prepared to tackle the challenges to usher pharmacy into its digitally supported future," said Jacqueline Surugue, chair of the FIP Technology Forum.

Quarter 4: October to December

Toolkit published to improve work environments for women

A toolkit to improve practice environments for women in pharmaceutical science and pharmacy education was launched by FIP in October. The toolkit was developed by the FIP Women in Science and Education (FIPWiSE) Enabling Workplaces Working Group, building on FIP's work with the World Health Professions Alliance to ensure positive practice environments for healthcare professionals (see p24). It raises awareness of five domains that need attention: equal incentives for equal work; work-life balance; creating supportive and safe working environments; opportunities for professional development, recognition and empowerment; and women in leadership. The toolkit presents solutions that can be implemented by professionals, employers and policymakers to generate and maintain supportive working environments. Although women comprise the majority of the health and care workforce, they are underrepresented in science, technology and education and there are significant differences between genders in career progression. FIPWiSE is part of FIP's EquityRx programme.

The FIPWiSE initiative aspires to champion women in pharmaceutical sciences and education and enable them to achieve their fullest potential.



Pharmacy's role in cleaner air and water and greener medicines use was explained to leaders attending the United Nations Climate Change Conference.

Pharmacy speaks up for sustainability

Around the world, health workers are witnessing the impacts of climate change on patients. As two weeks of negotiations by world leaders at the United Nations Climate Change Conference 2021 (COP26) began, FIP sent a letter to national delegations setting out pharmacy's role in cleaner air and water and greener medicines use, and the benefit of sustainable pharmaceutical services. FIP also supported the Healthy Climate Prescription, an open letter from organisations representing more than 45 million healthcare workers coming together to call for action on the climate crisis, including building climate resilient, low-carbon, sustainable health systems and ensuring that pandemic recovery investments support climate action and reduce social and health inequities. The letter was delivered at an official COP26 event. These actions were followed by the announcement of a new FIP programme of work — SustainabilityRx — covering three areas: responding to disasters and pandemics; environment and planetary health; and sustainable services.

Eighteen urgent actions to avoid health worker shortfall

A global call to action issued by FIP in December set out urgent actions needed from academic institutions, professional organisations and policymakers to prevent the shortfall of 18 million health workers by 2030 predicted by the World Health Organization, through advancing pharmacy and pharmaceutical sciences education. These actions were presented at the FIP-UNITWIN Global Summit on Pharmaceutical Education, where participants learnt about regions' roadmaps developed by key stakeholders at FIP-UNITWIN workshops in October, and include enhancing interdisciplinary and interprofessional education and generating pharmaceutical education intelligence to measure educational outcomes and inform investments. "As we draw closer to 2030, we are urging all stakeholders to take our recommended actions to advance pharmaceutical education now if we are to have any prospect of meeting the United Nations Sustainable Development Goals," said FIP CEO Catherine Duggan.

Increasing academic capacity is one of the recommendations FIP made to provide a competent pharmaceutical workforce.



About FIP*

Who we are

The International Pharmaceutical Federation (FIP) is the global federation of national associations of pharmacists and pharmaceutical scientists, with 146 member organisations of which 13 are predominantly scientific organisations, and academic institutions (173 members).

FIP is a non-governmental organisation that has been in official relations with the World Health Organization since 1948. FIP is one of five health professional organisations that form the World Health Professions Alliance (WHPA). Bringing together medicine, nursing, dentistry, physical therapy and pharmacy, the WHPA represents more than 41 million healthcare professionals.

What we do

FIP's vision is a world where everyone benefits from access to safe, effective, quality and affordable medicines and health technologies, as well as from pharmaceutical care services provided by pharmacists, in collaboration with other healthcare professionals.

Our mission is to support global health by enabling the advancement of pharmaceutical practice, sciences and education. This mission is articulated to members and key stakeholders through FIP's [Strategic Plan 2019–2024](#). Examples of what we do can be found throughout this annual report.

“A world where everyone benefits from access to safe, effective, quality and affordable medicines and health technologies.”

How we work

FIP's activities can be divided into three main areas — science, practice and education — although these areas are working increasingly more closely as “One FIP”. FIP forums ([technology](#) and [regulators](#)) and commissions ([antimicrobial resistance](#) and [data and intelligence](#)) cut across all three areas to influence our One FIP thinking and gather ideas and projects. We also have the FIP Consortium, which advises on the provision through partnerships programme.

Science

Work to advance the pharmaceutical sciences globally is primarily done through six special interest groups (SIGs) led by the Board of Pharmaceutical Sciences. There are SIGs for:

- > [Drug delivery and manufacturing](#)
- > [New generation of pharmaceutical scientists](#)
- > [New medicines](#)
- > [Personalised and precision medicine](#)
- > [Pharmacy practice research](#)
- > [Regulatory sciences and quality](#)

Practice

A priority for FIP is to advance pharmacy practice in all settings, and this is led through the projects and initiatives of eight pharmacy practice sections (led by the Board of Pharmaceutical Practice). There are sections for:

- > [Academic pharmacy](#)
- > [Clinical biology](#)
- > [Community pharmacy](#)
- > [Health and medicines information](#)
- > [Hospital pharmacy](#)
- > [Industrial pharmacy](#)
- > [Military and emergency pharmacy](#)
- > [Social and administrative pharmacy](#)

Education

The reform of pharmacy education in the context of pharmaceutical workforce development is a third objective, and this is the purpose of FIP Education (FIPeD), which includes:

- > [Academic Pharmacy Section](#) members (faculty members and educators);
- > [Academic institutional members](#) (deans of schools of pharmacy and pharmaceutical sciences);
- > A [Workforce Development Hub](#) of experts focused on academic capacity, early career training strategy, quality assurance, advances and specialist development, competency development, leadership development, advancing integrated services, working with others, continuing professional development strategies, equity and equality, impact and outcomes, pharmacy intelligence and policy development;
- > A [Pharmacy Technicians and Support Workforce Strategic Platform](#) and its advisory committee; and
- > The [FIP-UNESCO UNITWIN programme](#) (regional university networks to advance pharmaceutical education), which is a global partnership between FIP and UNESCO.

FIP directs particular effort towards young pharmacists and the preparation of congresses through its Young Pharmacists Group and Congress Programme Committee, respectively. In addition, among the boards, sections, SIGs and committees are ad hoc working and focus groups with the forums and commissions as described above.

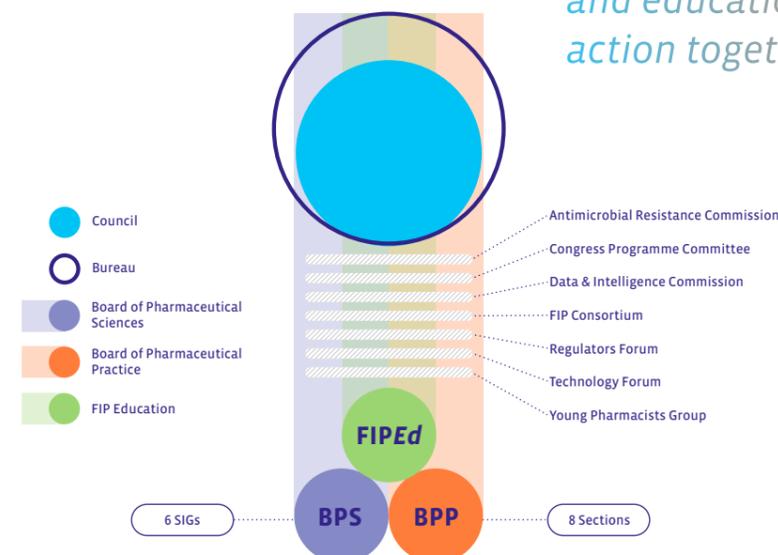
FIP is governed by the FIP Council and the FIP Bureau (the organisation's governing board). The Council is comprised of representatives of our member organisations. Our observer organisations participate in the Council but may not vote. Vice presidents are elected from the Council to make up the Bureau. A president is elected to chair the Bureau and preside over FIP for a four-year term. The Bureau consists of 14 elected officers,

plus the FIP chief executive officer, *ex officio*. FIP's day-to-day activities are managed by an executive committee and a team of staff at our headquarters in the Netherlands, supported by an extensive global pharmacy and pharmaceutical sciences network and our partnerships. Individual annual reports of the SIGs and sections are available at www.fip.org.

The FIP Bureau

	President Mr Dominique Jordan (Switzerland)		Vice president Prof. Parisa Aslani (Australia)
	Chief executive officer Dr Catherine Duggan (Netherlands)		Vice president Ms Manjiri Sandeep Gharat (India)
	Immediate past president Dr Carmen Peña (Spain)		Vice president Mr Carlos Lacava (Uruguay)
	Scientific secretary Prof. Giovanni Pauletti (USA)		Vice president Ms Samira Shammam (Jordan)
	Professional secretary Mr Luís Miguel Lourenço (Portugal)		Vice president Mr Lars-Åke Söderlund (Sweden)
	Chair of FIP Education Prof. Ralph Altieri (USA)		Vice president Prof. Ashok Soni (UK)
	Chair of the Board of Pharmaceutical Sciences Prof. Ross McKinnon (Australia)		Vice president Prof. Hiroshi Suzuki (Japan)
	Chair of the Board of Pharmaceutical Practice Mr Paul Sinclair (Australia)		

“As ‘One FIP,’ science, practice and education are taking action together.”



Our members — The global pharmacy family

Through our membership, FIP has presence in **153 countries** and territories, representing around four million pharmacists, pharmaceutical scientists and pharmacy educators. This covers an estimated **7.41 billion** people.



FIP membership is as follows:



New member organisations

At its meeting in September 2021, the FIP Council admitted the following as new member organisations:

- Egyptian Organisation of Pharmacy, Development and Training
- National Academy of Pharmaceutical Sciences of Mexico
- National Institute of Public Health, Clinical Epidemiology and Toxicology, Lebanon
- Nigeria Association of Foreign Trained Pharmacists
- Pharmaceutical Society of South Sudan
- Somali Pharmacists Association

Member organisations can be found at: www.fip.org/member-organisations

"FIP is a cornerstone of pharmacy around the world. We believe that we can always trust FIP to support the profession. FIP keeps us regularly updated in pharmacy practice and pharmaceutical sciences and we're proud to be a member. Thank you, FIP!"



Dr Wael Ali, president,
Egyptian Organisation of Pharmacy,
Development and Training

"We represent pharmaceutical science professionals in Mexico, with the intention of promoting the study, teaching, research, development and innovation of pharmacy, to contribute to the solution of health problems. We consider that FIP is an arm that will support us to achieve these ideals."



Dr Gerardo Aparicio-Ozores, president,
National Academy of Pharmaceutical Sciences
of Mexico

"I'm really delighted that we are finally part of the great FIP. ... We are looking forward to collaborating with FIP and benefiting from technical resources to improve pharmaceutical services in our beloved country, South Sudan."



Mr Achwanyo Ezekiel Kutjok, chairperson,
Pharmaceutical Society of South Sudan

New academic institutional members

FIP welcomed the following schools of pharmacy to academic institutional membership (AIM) in 2021:

- Universitas Sumatera Utara (Indonesia)
- Hamadan University of Medical Sciences (Iran, Islamic Republic)
- Arab American University (Occupied Palestinian Territory)
- University of Palestine (Occupied Palestinian Territory)
- Salim Habib University (Pakistan)
- Emilio Aguinaldo College, Cavite and Manila Campuses (Philippines)
- "Carol Davila" Medicine and Pharmacy University of Bucharest (Romania)
- The RUDN University (Russian Federation)
- Kyiv National University of Technologies and Design (Ukraine)
- PHEE "Kyiv Medical University" (Ukraine)
- Ukrainian National University of Pharmacy (Ukraine)
- Florida A&M University (USA)
- Palm Beach Atlantic University (USA)
- University of South Carolina (USA)

A full list of FIP academic institutional members can be found at: www.fip.org/member-organisations

"FIP allows access to innovative and latest practices in pharmacy that can easily be incorporated to teaching instruction and research through their webinars and special courses. FIP also provides an opportunity for academic exchange with other pharmacy programmes globally. I am looking forward to continue to gain these benefits from FIP."



Mr Romeo C. Ongpoy Jr, dean,
Emilio Aguinaldo College, Philippines

FIP Development Goals 2021: The first year of a decade of action

In September 2020, FIP published a set of 21 development goals for transforming the pharmacy profession globally, regionally and nationally, building on FIP's 13 Pharmaceutical Workforce Development Goals launched in 2016. The **21 FIP Development Goals** bring together workforce and education, practice and science under a transformative framework, and define an improved and more advanced pharmacy profession for the next decade in alignment with FIP's mission and with wider global imperatives such as the United Nations **Sustainable Development Goals**.

Having a set of "One FIP" development goals provides a consistent way to identify commonalities across FIP, as well as enabling needs assessment and mapping of priorities. The FIP Development Goals are accompanied by a growing set of FIP global tools, structures, indicators and programmes to facilitate and support the process of transformation. FIP aims to facilitate monitoring progress and sharing best practice development with evidence generated and displayed through the FIP Global Pharmaceutical Observatory and the FIP Atlas.

Priorities identified

During 2021, FIP ran a **digital programme** to identify the priority goals of regions and members for the decade ahead to 2030. The programme, launched in March 2021, comprised a series of 21 online events providing insight into each of the global goals.

In order to identify priorities, FIP implemented an engagement strategy that included regional meetings (including with the five FIP regional pharmaceutical forums), one-to-one high-level meetings with member organisations and observer organisations, and interviews.

Data were analysed in order to develop regional action plans in a needs-based and tailored manner. In addition, analysis enabled the construction of a global snapshot of development goals as first level, second level and third level priorities (see Figure).

The digital programme concluded in December 2021 with the promise of a status report, regional action plans and a global roadmap to be delivered in 2022.



Snapshot of global FIP Development Goal priorities categorised into three levels.

Primary health care and the Declaration of Astana — Acting on our commitment

FIP marked the third anniversary of the World Health Organization's Declaration of Astana on Primary Health Care in 2021 (see Box for history) with a Global Summit on Primary Health Care held online. This event:

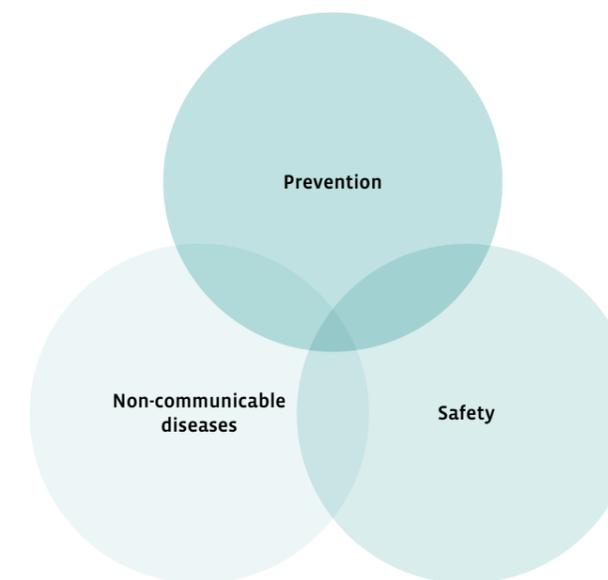
- Premiered a video describing FIP's primary health care journey since the launch of the Declaration of Alma-Ata and towards the 2030 UN Sustainable Development Goal targets;
- Showcased how pharmacists organisations in Indonesia, Jordan, Kenya, Netherlands, Singapore and the USA have been contributing to the WHO Operational Framework for Primary Health Care to translate the vision of the Astana Declaration into actions;
- Hosted a high-level discussion with the WHO to explore the strategic levers needed for pharmacists to strengthen primary health care in order to accelerate progress; and
- Launched a new **Global Commitment to Action on Primary Health Care** and a **dedicated webpage** and **hub of resources** to help progress work in this area.

FIP actions since 2018 have built on the principles of the declaration, the WHO/UNICEF operational framework for primary health care, and the FIP Development Goals,

aiming to strengthen pharmacy's role in primary health care and, therefore, its contribution to achieving universal health coverage and the United Nations Sustainable Development Goals. It is doing this through three key programmes of work, namely, the FIP Astana imperative areas of non-communicable diseases, prevention and patient safety.



FIP plans to host a health ministers' summit in 2023 at which evidence of impact and change in the three priority areas across all six regions and delivery based on FIP's commitment to the Astana Declaration will be demonstrated.



The three FIP Astana imperative areas

Astana declaration history

In 2018, the world came together at the Global Conference on Primary Health Care in Nur-Sultan (previously Astana), Kazakhstan, where heads of state and government and ministers pledged to recommit to strengthening primary health care to achieve universal health coverage and the United Nations Sustainable Development Goals in the Declaration of Astana. The conference took place on the 40th anniversary of the Declaration of Alma-Ata, a major milestone in public health which identified primary health care as key to health for all. FIP was part of the global community in Nur-Sultan that renewed political focus on primary health care at this historic meeting, contributing to and signing the declaration. Since that time, the federation has worked to strengthen pharmacy's contribution to, and impact on, primary health care, with events to garner commitment from the profession and action to advance pharmacists' roles.

Member engagement

Through strategies to consult, engage and involve members and other key stakeholders, FIP forges relationships to ensure the advancement of health care in all parts of the world. In a second year of no face-to-face meetings due to the COVID-19 pandemic, 2021 saw FIP renew its member engagement strategy, building on learnings and adapted technology that emerged in 2020 to connect and maintain rapport with members, and to engage purposefully. This strategy focused on identifying member needs and priorities to advance pharmacy on national and regional level. This has been implemented through a variety of online events carefully designed to be interactive, purposeful and targeted.

Activities to engage

In April 2021, a set of regional meetings was held to gather data on members' priority development goals and national needs, and to identify commonalities between organisations. This was followed by further regional meetings in July and September to consolidate members' needs to reflect regional challenges, and to align priorities with the FIP Development Goals and to group these globally, regionally and nationally. In November, FIP then conducted one-on-one interviews with member organisations, collecting reflections and suggestions for a final set of regional meetings where members could discuss common priorities in smaller groups and success stories and experiences under selected themes were shared.

FIP also held high-level meetings to discuss specific issues and challenges raised by member organisations and, towards the end of 2021, FIP invited a sample of member and observer organisations to participate in tailored interviews to validate their FIP Development Goal priorities, to track progress, and capture their feedback on the 2021 engagement strategy.

Throughout 2021, members were invited to participate in a number of surveys to gather views on a range of areas, such as education and training with particular focus on FIP's global priorities of prevention, patient safety, non-communicable diseases and workforce capacity.

Aims

These events allowed the federation to fulfil a number of aims, including to:

- Learn about members' priorities, needs, challenges, preferences, achievements and accomplishments;
- Find out which member needs FIP met and which FIP benefits are valued;
- Gain insight into specific needs related to education and training;
- Align members' priorities with the 21 FIP Development Goals;
- Identify and implement effective methods that aid better understanding of needs and wishes and that also provide member benefits;
- Capture the voice of members in order to provide an authentic report that can be used as a tool for customising support;
- Identify how members can support each other and share lessons learnt;
- Connect members with comparable needs across nations and regions;
- Provide added value to members through the engagement work, creating a platform for collaboration and opportunities for partnerships and service provision;
- Continue to learn how to combine digital and face-to-face interactions in a sustainable, consistent and equitable way; and
- Rethink member engagement and take it forward in years to come.

Achieving these aims is imperative for FIP's strategies and mission, and for the profession at large. The findings from this broad body of work were recently published — [“FIP engagement with our membership 2021: Capturing the voice of FIP members globally, to advance pharmacy worldwide”](#) features the voices of member organisations, observer organisations, academic institutional members, regional pharmaceutical forums, and FIP's internal constituencies and informs the federation's engagement activities in 2022.

FIP can only deliver its mission and realise its vision in solidarity with members and stakeholders everywhere. By capturing members' voices, FIP has listened not only to learn but to contribute and deliver to transform pharmacy where needed. Investing in member engagement continues to be a top strategic priority.



“As a member organisation of FIP, we appreciate the kind of specific and focused meetings especially for one of the most important topics, the FIP Development Goals. . . . It is a great opportunity to have specific discussions related to the different regions as there are different needs from one region to another. It is really important for us to learn from countries where we have similar issues and challenges.”



Dr Redouane Soualmi, chair of external relations, Algerian Pharmaceutical Federation

“The FIP Development Goals are a very good beacon to adapt to individual needs, at their own pace, but with a clear objective to reach a high, unifying standard of practice and diversity in role evolution. The regional platforms are a very good forum for discussion of this and gauging the level at which the DGs could in fact be attained.”



Ms Mary Ann Sant Fournier, president, Malta Chamber of Pharmacists

“FIP is making great efforts to support the global agenda and to demonstrate the transformative efforts of FIP member organisations around the world. By participating in the regional meetings . . . members can gain alignment and collaboration with other countries.”



Mr Mahmoud Abderlahman, president, Egyptian Foundation of Clinical Pharmacy

“The FIP Academic Institutional Membership (AIM) aims to advance leadership in pharmacy education and is a global network connecting all pharmacy schools. The 2021 Global Academic Leaders Forum fulfilled all the objectives of FIP AIM by bringing educators from around the world in one platform and finding solutions not only for continuing but also enhancing pharmacy education in adverse situations.”



Dr Rajani Shakya, head of department of pharmacy, Kathmandu University, Nepal

“Advancing pharmacy worldwide requires a strong knowledge of region specificity through information and data collection. The Global Pharmaceutical Observatory has a key role for this achievement and should be empowered.”



Dr Prosper Hiag, president, African Pharmaceutical Forum

FIP's “Transforming vaccination globally, regionally and nationally” programme of virtual events “brought out several local and regional issues related to the roles of pharmacists in transforming vaccinations, leading to advocacy measures to promote the importance of pharmacists in the supply chain and delivery of vaccines, as well as dampening vaccine hesitancy among people in the region.”



Dr Rao Vadlamudi, professional secretary, South East Asian Regional Pharmaceutical Forum

Taking action in a second year of COVID-19



Throughout 2021, FIP continued its work to support the pharmacy profession and pharmacy services during the pandemic, leading a wide-ranging programme of action. During 2021, FIP also gathered evidence of pharmacy activities within 100-day milestones since the start of the COVID-19 pandemic.

15 January

Video message from the presidents of all five international organisations making up the World Health Professions Alliance calls for continued support for health and care workers and asks the public to help safeguard underfunded COVID-affected health systems. In particular, the FIP president urges people to protect themselves with the newly available vaccines.

18 January

Special issue of FIP's journal brings together the world's largest collection of peer-reviewed COVID-19 related pharmaceutical education research manuscripts, editorials and case studies reflecting global responses to teaching, learning and delivery in pharmacy education during the pandemic.

19 January

FIP statement to 148th World Health Organization Executive Board session tells policymakers they must enact legislation to enable pharmacists to help end the pandemic via vaccination and testing.

3 February

FIP works with the International Federation of Pharmaceutical Manufacturers and Associations on #TeamVaccines, a campaign that publicises the safety of COVID-19 vaccines.



28 January

FIP publishes **answers** to frequently asked questions from pharmacists on Moderna, Pfizer/BioNTech and the University of Oxford/AstraZeneca COVID-19 vaccines.

22 January

Governments must support in-pharmacy COVID-19 testing to help bring pandemic under control — new **FIP Holding Statement** points out ethical and public health priority to expand access to testing.

4 February 2021

Regulators supported in implementing pandemic pharmacy-based vaccination programmes with new **tool** developed by the FIP Forum of Professional Regulators.

1 March

FIP president describes new and valued pharmacy services and how pharmacists are becoming more integrated into health systems during the pandemic at Turkish Pharmacists' Association congress entitled "Health and medicines under the shadow of the pandemic".

15 March

Access to quality-assured COVID vaccines for all advocated by FIP CEO at a US Pharmacopeia, Sabin Vaccine Institute and World Health Organization webinar on "Quality, speed & equity: Delivering quality COVID-19 vaccines to the world", representing pharmacy as a vital part of the supply chain.

18 March

How COVID-19 has impacted the role of pharmacists is shared in an **article** by FIP published in the *Farmacia Hospitalaria* journal.

22 March

Pharmacists' stories revealing a variety of equity issues under the pandemic, from higher risk of COVID-19 related morbidity among African Americans to inequitable vaccine rollouts published by FIP in its second **EquityRx Collection**, entitled "Inequities unmasked".

22 March

Ensuring early access of the pharmacy workforce to safe and effective COVID-19 vaccines will contribute to accelerating access to vaccines for all, FIP says in **Statement of Principle**.

8 May

FIP COVID-19 Expert Advisory Group reviews evidence for use of DARPins (designed ankyrin repeat proteins) in COVID-19 and concludes there is not enough evidence for use as treatment.

20 April

New FIP Digital Event series on COVID-19 begins under the banner "**Collaborating through the pandemic — working and learning together**", with 13 webinars spread throughout the year.

25 March

FIP signs the World Health Organization's **Vaccine Equity Declaration**, calling for worldwide action to accelerate early access to vaccines for healthcare workers on the front line, including pharmacy teams.

25 May

Actions to protect people from substandard and falsified medicines and vaccines for COVID is the topic tackled by the FIP CEO, who joins experts from the Pharmaceutical Security Institute, the UN Office on Drugs and Crime and the Centre for Tropical Medicine and Global Health at a Fight the Fakes Alliance side event at the 74th World Health Assembly.

27 May

COVID-19 should be recognised as an occupational disease, the World Health Professions Alliance says as it gathers experts at a webinar to discuss the challenges faced by health professionals and the importance of providing positive practice environments to safeguard the health and well-being of workers.

30 June

FIP CEO represents pharmacy profession, discussing country-level COVID-19 pandemic response analysis and lessons learnt on an Economist Intelligence Unit advisory panel with the aim of strengthening future pandemic responses. [More here.](#)

ECONOMIST INTELLIGENCE

25 October

FIP CEO speaks for pharmacy and all health professions at the **World Health Summit** during discussions on preparedness for the next pandemic. The World Health Summit is one of the world's leading strategic forums for global health, bringing together leaders from politics, science and medicine, the private sector and civil society.



21 October

FIP, the WHO and partners issue **urgent call** for concrete action to better protect health and care workers worldwide from COVID-19, following new estimation in a WHO working paper that puts the number of health and care worker deaths due to COVID-19 at between 80,000 and 180,000 as at May 2021.

6 July

World Health Professions Alliance reminds policymakers at the 2021 United Nations High-Level Political Forum on Sustainable Development that health and care professionals were and continue to be severely affected by COVID-19, both personally and professionally, calling for "concrete action and ambitious financial commitments" to help safeguard underfunded, COVID-affected health systems and make significant improvements to working conditions.

29 November

Special session of the World Health Assembly considers a single agenda item: the benefits of developing a WHO convention, agreement or other international instrument on pandemic preparedness. In a **statement** the World Health Professions Alliance draws attention to a deterioration of working conditions and desperate shortages of health professionals which negatively impact people's health outcomes and health professionals' well-being due to under-investment.

Focus on our profession and practice

Strengthening pharmacy's role in self-care

Self-care is a tool for empowering patients, improving health outcomes and reducing health system costs. For a number of years FIP has been espousing the place of self-care in health care and promoting pharmacists as the central health professional in supporting self-care behaviours, and this work continued in 2021. In July, against the backdrop of more people taking responsibility for managing their own health and seeking information in order to do so during the COVID-19 pandemic, FIP issued a [statement](#) recommending community pharmacists as the key health professionals to go to for advice on self-management of pain. The statement described the many ways in which pharmacists oversee the responsible use of analgesics, and highlighted that this role is of particular value during transitions of care. In May, FIP began a series of [17 digital events](#) under the theme "Shaping the future of self-care through pharmacy" with eight events focused on global policy drivers and nine events focusing on how pharmacy teams can support self-care of a range of ailments, from women's health issues (delivered in several languages) to gastrointestinal complaints. This wide range of resources was supplemented in December, when FIP gave special focus to the potential for self-care of common upper respiratory tract infections with the publication of a [handbook](#) for pharmacists. This new resource defines various roles for pharmacists, from advice on the use of non-prescription medicines and preventing infection and supporting respiratory well-being to assessing symptoms and care via minor ailment schemes. In 2019, FIP and the Global Self-Care Federation (GSCF) issued a [joint Statement of Policy](#) on responsible and effective self-care and our collaborative work continued in 2021 with FIP support for the launch of the GSCF's first [Self-Care Readiness Index](#), a policy tool aimed at assisting regulators and policy-makers in evaluating their self-care systems. Indeed, the fostering of self-care is wider than pharmacy and FIP further championed an inclusive approach in an [opinion piece](#) by FIP CEO Catherine Duggan for Devex in June, promoting the role of all healthcare professionals in self-care.

"The GSCF regards pharmacists as the vital cog in the self-care continuum and our collaboration on the Self-Care Readiness Index and other key policy items will help us drive self-care onto the agendas of global policy makers. We look forward to a continuing and fruitful partnership with FIP."



Ms Judy Stenmark, director general, Global Self-Care Federation

Inspiring and supporting younger colleagues

A strong voice of the future is important for both FIP and the profession and our pharmacy youth must be stimulated and supported to play a dynamic role in defining the profession for the coming years. Several FIP constituencies acted on this agenda in 2021. Both FIP's New Generation of Pharmaceutical Scientists Special Interest Group and Young Pharmacists Group (YPG) organised digital events throughout the year to help young pharmaceutical scientists and young pharmacists, respectively, to develop their careers. Through these events, young colleagues from around the world were able to gain insights on career opportunities in government, the pharmaceutical industry and academia, as well as core skills for career progression and switching areas of practice. In August, the YPG also published a [report](#) showcasing the impact of young pharmacists and pharmaceutical scientists on global health, with case studies from early-career pharmaceutical groups in Indonesia, Lebanon, Nigeria, Malaysia and Portugal on emergency practice, advocacy and COVID-19 response. Furthermore, 13 young pharmacists benefited from the 2020/21 YPG Mentorship Programme. Mentors came from throughout the FIP network but the programme had special support from the FIP Women in Science and Education initiative and FIP's scientific special interest groups. 2021 also saw the YPG celebrate its 20th anniversary. This vibrant and dynamic group has grown to be an essential part of FIP and the federation was delighted to be able to mark the event with so many YPG leaders from the entire 20 years.

"The FIP YPG mentorship programme was an extremely valuable experience and one that has benefited my professional progression immensely. Even beyond the mentorship programme, I still keep in touch with my mentor and intend to meet in person during a FIP annual congress in the future. The mentorship programme was rewarding for both myself and my mentor and I believe it is an excellent opportunity for any young pharmacist looking for guidance in their respective field."



Ms Shania Liu, hospital pharmacist, Australia, mentee, YPG Mentorship Programme



The pharmacy team at Engela District Hospital, Namibia, was pleased to use the FIP Hospital Pharmacy Section self-assessment tool to evaluate their practice against the Basel Statements to improve treatment outcomes and patient safety.

Investigating the operation of online pharmacies

The practice of online pharmacy was the subject of a new report from FIP in December, which suggested that increased cooperation between countries in developing regulation of online pharmacies is needed. "[Online pharmacy operations and distribution of medicines](#)", produced by FIP's Community Pharmacy Section, was part of FIP's programme of work on digital pharmacy practice. The report presents the findings of a global survey of pharmacy organisations on a wide variety of aspects of online pharmacy, including the types of medicines these pharmacies supply in different countries, how the authenticity of online pharmacies can be verified, and the usage of e-prescriptions and shared patient health records. Of the 79 countries responding to the survey, 51% said that no regulation of online pharmacies exists. Although online pharmacies offer convenience of increased access to medicines and services, a lack of regulation or lack of enforcement of regulation creates an avenue for illegal pharmacies and may impact the overall quality of medicines and services offered to consumers, the authors point out. Online pharmacies have now been around for over 20 years, but the COVID-19 pandemic has rapidly shifted the e-commerce landscape, including in the pharmacy sector. It is likely that changed preferences for online services will remain and the importance of online pharmacies will continue to grow, making this FIP report particularly relevant for the pharmacy profession to continue providing quality health care in an evolving landscape.

"Digital systems and telehealth can provide convenience, accessibility and economy which, to varying degrees, are important to users of medicines and pharmacists' services. These tools are both an opportunity and a challenge to conventional pharmacy service models, and issues that need to be addressed include ensuring the quality of medicines and ensuring people have access to professional advice. This valuable study indicates some countries in the Western Pacific Region are at the cutting edge in these developments but many need to do more to regulate this emerging area of practice."



Mr John Jackson, president, Western Pacific Pharmaceutical Forum

Optimising hospital pharmacists' contributions to care

[Findings](#) of a survey of hospital pharmacy practice in Namibia using FIP's [Basel Statements](#) self-assessment tool were published in the *International Journal of Pharmacy Practice* in May. The survey indicated that hospital pharmacists can help improve health outcomes (while also managing costs) in non-communicable and communicable diseases. FIP's Basel Statements are a set of 65 statements reflecting the vision for hospital pharmacy practice and covering all areas of the medicine use process in hospitals, from procurement to monitoring: The Hospital Pharmacy Section also worked to map the Basel Statements to the FIP Development Goals and, as a result prioritised work on antimicrobial stewardship. Another FIP Hospital Pharmacy Section project published this year was a [survey](#) on opioid stewardship practices in hospitals.

Health benefits for patients and communities

Widening access to vaccinations

Vaccination is the most effective public health intervention available, ranking second only to clean water for disease prevention. Although pharmacists have administered vaccines in several countries for years, this role is new in many parts of the world. FIP's work on vaccination is based on the conviction that improving vaccination coverage and promoting a life-course approach to vaccination are global imperatives to which pharmacists can greatly contribute. In 2021, this work was varied and wide ranging, involving many collaborations within One FIP and beyond, and included:

- Participating in the International Federation of Pharmaceutical Manufacturers and Associations #TeamVaccines campaign, launched in January and continued throughout the year, to build confidence in vaccines, including for COVID-19, and to encourage people to get vaccinated against influenza;
- Providing regulators with a **tool** developed by the FIP Forum of Professional Regulators to implement pandemic pharmacy-based vaccination programmes through regulatory reform;
- Supporting the International Federation on Ageing's consensus **statement** "Mobilising patient groups to change vaccine policy through cooperation, collaboration, solidarity and accountability" in February;
- Inspiring colleagues with stories of progress in pharmacy vaccination with a World Immunization Week campaign in April. Examples were contributed from the following FIP member and observer organisations, ensuring that every region of the world was represented: Federfarma (Italy), the Indian Pharmaceutical Association, the Jordanian Pharmacist Association, the National Association of Boards of Pharmacy (USA), the Pharmaceutical Society of Ghana, and the Philippine Pharmacists Association;
- Launching in June the "**Transforming vaccination globally, regionally, nationally 2021**" series of 13 digital events and concluding with a leadership summit on pharmacy on pharmacy-based vaccination policy and advocacy in November;

- Urging pharmacists to make every contact count to maximise their disease prevention role through vaccination with the launch in July of a new **handbook** addressing vaccination procedures, safety aspects, common risk points and frequently asked questions;
- Releasing a **toolkit** in October to help pharmacists tackle vaccines hesitancy;
- Publishing "**Pharmaceutical services in immunisation: Contributions, experiences and implementation in the Americas region**", produced by the Pharmaceutical Forum of the Americas, in November; and
- Garnering in November a new **global commitment** from the profession to accelerate vaccination equity and sustainability.

Vaccination is a large part of FIP's programme of work on disease prevention. In October, FIP also launched a new **online hub** to support the pharmacy profession in its disease prevention role, covering vaccination, vector-borne diseases, and the promotion of informed and pharmacist-supported self-care towards better health and well-being.

"Best strategies, team effort and strong collaboration with stakeholders helped us overcome the challenges around the legal, regulatory and liability issues in offering the pharmacy-based immunisation programme in the Philippines. Finally we are now one of the countries and territories that will be involved in immunisation activities through adult vaccine administration by pharmacists. Now Filipino pharmacists will be recognised as an essential pool of competent human resource of the immunisation deployment plan of the government especially."



Ms Gilda Sebuja-Saljay, president,
Philippine Pharmacists Association

Beating antimicrobial resistance together

The World Health Organization calls antimicrobial resistance (AMR) a "slow tsunami that threatens to wipe out a century of medical progress". Without effective tools for the prevention and treatment of infections the number of people who die will increase and medical procedures will become more risky. In addition to speaking on AMR at the World Health Assembly (see p4), FIP continued to build on the work done to tackle the inappropriate use of antibiotics. In November, the FIP AMR Commission and the Global Respiratory Infection Partnership hosted six regional workshops to gather best practices in antimicrobial stewardship, with cases presented to bring to life the Pharmacy AMR Roadmap developed at FIP Virtual 2020 (FIP's online congress in 2020). The **workshops** were moderated by members of the FIP AMR Commission for each region and the best practices were then shared at a global symposium attended by colleagues from over 70 countries who were encouraged to make a commitment to accelerate the ideas in their home countries. November also saw FIP join forces with the International Federation of Pharmaceutical Manufacturers and Associations, the International Alliance of Patients' Organizations, the IAPO P4PS Observatory, the AMR Patient Alliance, the International Council of Nurses and the Union for International Cancer Control to make a **statement** calling on government and policymakers to act on AMR. The joint statement made clear that patients, healthcare providers and the life science industries all have a role to play to beat AMR.

"The implementation of programmes to optimise the use of antimicrobials is a key area of work for the Pharmaceutical Forum of the Americas. Three cases from the Americas Region showing how pharmacists' interventions can help tackle AMR were shared at the FIP AMR workshop for the Americas: one from community pharmacy in Argentina, one from a Costa Rican hospital, and a US public health intervention, in order to inspire action."



Dr Eduardo Savio, president,
Pharmaceutical Forum of the Americas
and FIP AMR Commission member

Preventing the projected rise in diabetes

Reducing the global and individual burden of diabetes was a focus of FIP's practice transformation programme on non-communicable diseases initiated in 2021. In April, FIP supported the launch of the World Health Organization's **Global Diabetes Compact**, a collaborative arrangement uniting stakeholders in order to increase the capacity of

health systems to detect, diagnose and manage diabetes as well as to report on the global price of insulin and other diabetes medicines. In November, FIP supported the role that pharmacists can play in preventing diabetes with the release of FIP's "**Diabetes prevention, screening and management: A handbook for pharmacists**". In addition to prevention, screening and referral, the resource covers medicines management, non-pharmacological management and advice, and prevention and management of complications such as diabetic neuropathy and retinopathy. It also addresses barriers to providing diabetes services. In the same month, FIP also launch a **hub** of online resources on non-communicable diseases.

"Pharmacists are active members of the healthcare team, providing trusted advice to a community to which, more often than not, they also belong. From a diabetes care perspective, it is a key role. . . . ["Diabetes prevention, screening and management: A handbook for pharmacists"] provides pharmacists with everything they need to know to help guide community members to make healthy choices and adopt healthy habits."



Prof. Andrew Boulton, president,
International Diabetes Federation

Standing in solidarity with patients for safety

Patient safety is one of three key FIP programmes of work (along with disease prevention and non-communicable diseases) to advance pharmacy's primary health care role. On Patient Solidarity Day (3 December), FIP, alongside the International Alliance of Patients' Organizations, the International Federation of Pharmaceutical Manufacturers and Associations, the International Hospital Federation and the International Council of Nurses, called for governments and all health stakeholders to collaborate in the implementation of the WHO flagship **Global Patient Safety Action Plan 2021-2030**. This plan, adopted at the 74th World Health Assembly, provides strategic direction towards a vision of safe and respectful care for every patient, every time, everywhere. In supporting the **joint statement** FIP made sure that pharmacists' commitment to provide the highest quality health care and health products to patients as key actors in health systems was represented and gave emphasis to the importance of maintaining patient and family engagement and securing health worker education, skills and safety.

Education and workforce

Boosting action on substandard and fake medicines

Pharmacists are key in detecting and reporting poor quality or fake medical products that have penetrated supply chains, as well as educating and advising patients who have been exposed to them. However, they have cited a lack of awareness of substandard or falsified (SF) medicines and overcomplicated reporting systems as barriers to action. A solution proposed by the World Health Organization (WHO) was the production of a modular educational curriculum to improve reporting and interventions, and FIP took on the challenge to develop this for future pharmacists.

A **curriculum guide** to support educators in ensuring that pharmacists are better able to prevent SF medicines from reaching patients was published in January in partnership with the WHO. The guide contains a competency framework and practical tips and is supplemented with six university modules that align with the WHO prevention-detection-response strategy. Its development was thanks to a One FIP approach, bringing together experts from practice and education via FIP's Board of Pharmaceutical Practice and FIP Education, two FIP observer organisations (the International Conference of French-Speaking Chambers of Pharmacists and the Commonwealth Pharmacists Association) and five universities in sub-Saharan Africa — a region particularly affected by SF medicines — via FIP's academic institutional membership and the FIP UNESCO-UNITWIN network. It has been piloted by universities in Cameroon, Senegal, Tanzania and Uganda. Preliminary findings indicate that the course has been well received by students and lecturers, and that it can be adapted for different audiences. It is hoped that other users in Africa and around the world will find the resources useful.

"SF medical products are a constant, pervasive and unacceptable public health threat. ... The unique position of pharmacists as guardians of the supply chain's integrity allows them to safeguard the quality and safety of medical products before distribution and their vigilance is indispensable. ... [The curriculum guide] project addresses the training gap in teaching institutions and advances the essential role of pharmacists."



Ms Pernette Bourdillon-Estève, team lead (a.i.)
Incidents and Substandard/Falsified Medical Products, WHO

Laying foundations for digital health literacy

A large proportion of pharmacy schools and faculties do not yet offer digital health education and lack the experts and resources needed to do so, said a report — **"FIP digital health in pharmacy education: Developing a digitally enabled pharmaceutical workforce"** — published in January by FIP's Academic Pharmacy Section, the FIP Technology Forum and the Young Pharmacists Group. The survey, completed by 1,060 pharmacy schools, faculty members, students and practitioner groups from 91 countries, found that many practitioners are lacking familiarity with emerging digital health technologies such as blockchain, bots, digital medicines and artificial intelligence, and only a small fraction of respondents had received continuous educational development on digital health. With increased complexity of health conditions and ageing populations, digital health can be the key to many unmet needs in health services, but full use of this potential can only be made if the pharmaceutical workforce is digitally enabled. The report proposes a number of ways forward as well as describing digital health education initiatives in pharmacy faculties from around the world. Work in this area continued with FIP's Workforce Development Hub reviewing FIP's Global Competency Framework, which defines behavioural competencies that can contribute towards supporting foundation level practitioner development. The **framework** was updated in March to include four digital literacy behaviours.

"Pharmacy education is at the centre of accelerating the uptake of digital health technologies. ... [The "FIP digital health in pharmacy education: Developing a digitally enabled pharmaceutical workforce" report] lays the foundation of our current status in pharmacy education for us to build upon."



Prof. Aukje Mantel-Teeuwisse, chair,
FIP Digital Health in Pharmacy Education Report Working Group

Highlighting the value of pharmacy technicians

FIP recognises that pharmacy technicians play a critical role in the delivery of healthcare and patient care services. October 2021 saw the 9th FIP Pharmacy Technicians' Symposium, a digital event offering two days of sessions showcasing diverse global roles among the pharmacy technician workforce and also celebrating World Pharmacy Technician Day. FIP's support for technician colleagues in 2021 also included a focus on pharmacy technician research at a webinar in April organised by the FIP Pharmacy Technician Advisory Committee.

Establishing regional education networks

A **pathfinder toolkit** to aid the global expansion of centres of excellence for pharmaceutical education institutions was launched by FIP in July. The toolkit builds on successes achieved over a decade of the **FIP-UNESCO UNITWIN programme** in sub-Saharan Africa, which has advanced pharmaceutical education research, training and curriculum development by establishing university networks and encouraging inter-university cooperation worldwide. The pathfinder toolkit provides guidance for establishing further networks in regions around the world, contains case studies from Centre of Excellence for Africa (CfEA) experts and shares experiences on topics including legislative steps, strategic planning, decision-making, leadership, membership and marketing. With the leadership of the African Pharmaceutical Forum, the toolkit also aims to facilitate the establishment of an Africa-wide pharmacy schools association to expand the successes of the CfEA across the continent.

Enhancing academic leadership in trying times

In 2020, FIP, in collaboration with the American Association of Colleges of Pharmacy launched the **"Enhancing academic leadership horizons in trying times"** course as part of the Global Academic Leadership Fellow Programme to equip academic pharmacy leaders with the skills to navigate through the COVID-19 pandemic and similar crises. The course, offered on FIP's online learning platform, FIPx, was updated with new content in September 2021 and by the end of the year 175 academic leaders had applied to take the course, and 48 had completed all four modules and received their certificates. The digital transformation of learning throughout the COVID-19 pandemic has supported the success of this online course and feedback from learners has indicated their satisfaction with it. The course is continuing to run in 2022 (apply [here](#)).

"I completed the online leadership development programme and think all academicians who want to achieve their personal and institutional goals during the pandemic should also join this course."



Dr Reenu Yadav, Indian Association of Colleges of Pharmacy, India



The FIP UNITWIN pathfinder toolkit supports academic institutions to engage in the FIP-UNESCO UNITWIN programme in order to deliver education that addresses national, regional and international needs in pharmacy and pharmaceutical sciences.

Guiding pharmacists working in the humanitarian arena

Pharmacists practising or wishing to practise in the humanitarian field, providing pharmaceutical expertise and services during disasters and to people affected by armed conflict, were provided with an international competency framework to guide their development in October. The "FIP Global Humanitarian Competency Framework — Supporting pharmacists and the pharmaceutical workforce in a humanitarian arena" was developed by an FIP working group comprising practitioners in areas of conflict or emergency, including in disaster response and refugee camps, advisors to United Nations and other non-governmental international agencies, and experts in the development of competency frameworks. This FIP framework fills a gap in support for the development of pharmacists working in a humanitarian arena, against a backdrop of growing demand for pharmacists with humanitarian sector skills. Since its publication in 2021, the framework has been endorsed by the International Committee on Military Medicine, the International Federation of Red Cross and Red Crescent Societies and Pharmacists Without Borders Canada, and FIP was invited by the Oman Directorate General of Medical Supplies to present it at the 10th Pharmaceutical Care Conference in Muscat in December.

"FIP's internationally recognised competency framework can be used by individuals, mentors and employers to identify learning gaps and development needs and to monitor or assess performance. It supports pharmacists practising in the critically important field of humanitarian work."



Cdr Dr Sylvain Grenier, president, FIP Military and Emergency Pharmacy Section and chair of the FIP Global Humanitarian Competency Framework Working Group

Collaborations and partnerships

Giving focus to healthcare professionals' mental well-being

FIP is a founding member of the World Health Professions Alliance (WHPA). In 2021, the WHPA's long-running Positive Practice Environments campaign put a spotlight on mental health. Health professionals' mental well-being is important because poor mental health can affect the quality of care they are able to provide, said the WHPA in July as it released a new campaign poster and factsheet. This was supplemented with a webinar entitled "Safeguarding health professionals' mental health" in September. Another aspect of positive practice environments addressed during the year with new campaign resources was workplace violence, particularly as evidence gathered during the COVID pandemic began to point to mounting attacks on health professionals. Indeed, throughout the year FIP, as a part of the WHPA, made several statements on the need to reverse a deterioration of working conditions and desperate shortages of health professionals during the COVID pandemic, which negatively impact people's health outcomes and health professionals' well-being, calling for investment in the health workforce and health systems (see p3).

"The continuation of the pandemic during 2021 kept the health and well-being of all healthcare staff firmly at the centre of the global health agenda. The centrality of safe working environments for healthcare professionals to the security of healthcare delivery has never been more apparent. That is why the members of WHPA have put so much focus on developing and promoting the Positive Practice Environments campaign, because everyone regardless of job title, profession or pay grade is entitled to have their rights respected and their safety assured, and as WHPA we know that by achieving that we also protect the patients and populations to whom we provide health care."



Mr Howard Catton, CEO, International Council of Nurses and 2021 chair, World Health Professions Alliance

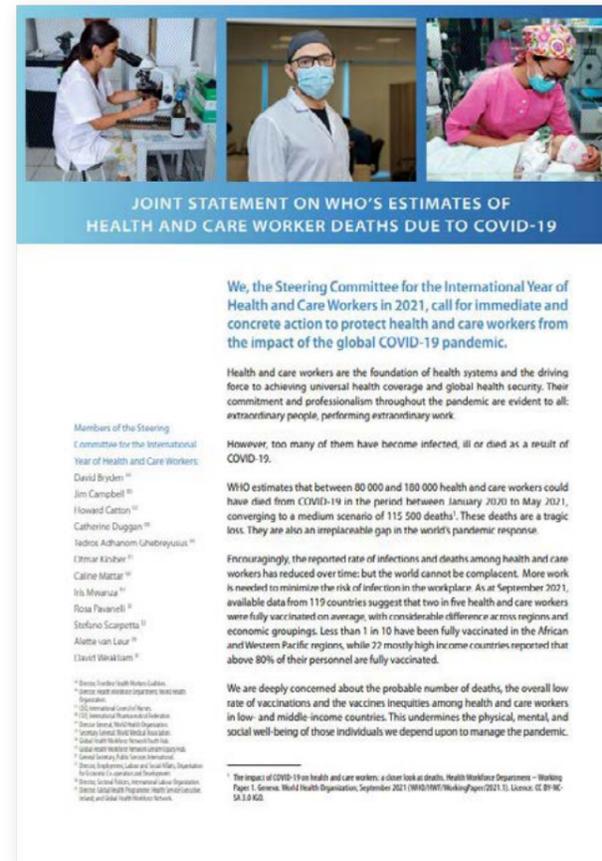
Improving conditions for women

FIP's partnership with Women in Global Health was evident in a number of ways in 2021. FIP made a commitment to the Gender Equal Health and Care Workforce Initiative (GEHCWI) launched by Women in Global Health, the government of France and the World Health Organization in February 2021. The GEHCWI aims to inspire action in the health and care sectors on safe and decent work for women, fair and equal pay, equal opportunities in health and care occupations, ending informal work, ending violence and harassment and promoting equal participation of men and women in the sector in leadership and decision making. In June, in alignment with its EquityRx programme of work, FIP supported the organisation's new project tackling inequities around the fit, design and use of personal protective equipment (PPE) for women. FIP encouraged its members' input on work to gather experiences with and recommendations on how to improve PPE to meet women's needs in order to produce a report for advocacy at the UN General Assembly. The report "Fit for women?", was published and shared by FIP in November. Tackling gender-based violence was another area of joint activism with Women in Global Health in 2021. In December, FIP co-signed a letter to the WHO on ending sexual exploitation, abuse and harassment in global health. Together with FEMNET, the International Council of Nurses and others, FIP also called for gender parity in leadership within WHO country offices and emergency response teams: "The presence of a critical mass of women will reduce the risk of sexual exploitation, abuse and harassment," the letter said.

"Women are the majority in the pharmacy profession and, as we enter the third year of a global pandemic, Women in Global Health recognises the exceptional contribution made by pharmacists in the response to COVID-19. We have been pleased to work in close partnership with FIP in 2021 and together we have campaigned for safe, decent and equal working conditions for all health workers. We thank FIP for its leadership in the sector and unfailing commitment to equity in the pharmacy workforce."



Dr Magda Robalo, global managing director, Women in Global Health



A joint statement called for urgent, concrete action to better protect health and care workers worldwide.

Joining forces to better protect health workers from COVID-19

In addition to planned collaborations with the World Health Organization (WHO) in 2021, FIP acted quickly on findings of a WHO working paper that put the number of health and care worker deaths due to COVID-19 at between 80,000 and 180,000 as at May 2021. FIP joined the WHO and other organisations, including the Frontline Health Workers Coalition, the International Council of Nurses and the World Medical Association, in drawing attention to this and data from 119 countries suggesting that by September 2021, on average only two in five health and care workers had been fully vaccinated — less than one in 10 had been fully vaccinated in the African and Western Pacific regions while 22 mostly high-income countries reported that above 80% of their health and care workers were fully vaccinated. A joint statement called for urgent, concrete action to better protect health and care workers worldwide from COVID-19 through ensuring that they were prioritised for vaccination. An increase in other health issues, such as burnout, stress, anxiety and fatigue, was also highlighted. "The WHO working paper provides a stark number to stimulate greater action; we cannot afford to lose more health and care workers and our world will not recover from the pandemic without long-term, sustainable investments in the health workforce," FIP CEO Catherine Duggan told the world's press in October.

Advocating life-course immunisation

FIP is a founding member of Immunisation For All Ages (IFAA), a coalition of organisations advocating life-course immunisation from different angles. The IFAA is supported by Pfizer, through an unrestricted grant. Its goal is to accelerate and advance policies for life-course vaccination by communicating the broader societal value of vaccination for all stages of life at a global and local level, such that governments, policymakers, non-governmental organisations, healthcare providers and citizens will support policies that prioritise vaccinations. In 2021, FIP co-authored and co-published the following with the IFAA:

- IFAA manifesto "Promoting immunisation throughout life";
- IFAA position paper on "Protecting and progressing routine immunisation";
- IFAA position paper on "Restructuring health systems towards prevention"; and
- IFAA position paper on "Expanding capacity for immunisation beyond infancy"

These documents are powerful advocacy tools that support an expanded approach to vaccination throughout life and have a strong emphasis on the role that pharmacy can play in such strategies. Within the coalition, FIP also co-organised three stakeholder round tables to discuss these position papers and how they can be leveraged to advance the immunisation agenda.



FIP co-authored and co-published the IFAA manifesto.

World Pharmacists Day

FIP led the widest reaching World Pharmacists Day (WPD) ever in 2021. At a time when demonstration of global solidarity among the pharmacy profession was more important than ever, a new campaign strategy aimed to spread the message “Pharmacy: Always trusted for your health” and increase FIP’s visibility as the global leader of the profession in every corner of the world.

With this aim in mind, two campaign concepts were developed. First, people were invited to become #WPD2021 champions using a special campaign graphic that would be posted on FIP’s Champions Wall and could be used on their own social media. Secondly, a challenge was issued to have champions in all 193 countries that are members of the United Nations as well as other territories.



FIP’s #WPD2021 challenge, launched 93 days before 25 September, aimed to spread World Pharmacists Day to all 193 country members of the United Nations and beyond.

Campaign materials were made available in 26 languages and WPD was celebrated in 195 countries — 190 of 193 countries on the United Nations list plus five other recognised or partially recognised states and territories. Joining front-line pharmacists from all sectors as champions were leaders of national organisations, pharmacists at ministries of health, high-ranking academics, pharmacy regulators and other healthcare professionals.

On 25 September, the message of trust in pharmacy was carried by the world’s media, including television channels. Thousands engaged with WPD activities and messages, including governments, health authorities, regulators, hospitals and public health organisations and the public, with the hashtag #thankyoupharmacists circulating on social media.

People also told FIP that they loved the campaign:

“Thank you for always coming up with unique ideas.” — Pakistan

“This is a brilliant initiative taken by FIP and I applaud your hard work and creativity.” — Malaysia

“Very proud to be part of it.” — Kiribati

“I’d like to be part of this stunning initiative.” — Iraq

“Very impressive. Well done to you and the team to have put all of this together.” — Australia

The message of trust in pharmacy was shared . . .



. . . on pharmacy counters



. . . on white coats



. . . on dispensed medicine bags



. . . by healthcare systems (Northern Trust social media, UK)



. . . at outreach initiatives (Pharmaceutical society outreach to children, Cameroon)



. . . at conferences (Kalinga Institute of Industrial Technology Hospital, India)



. . . at Zoom events



. . . in hospitals (Aga Khan Hospital, Tanzania)



World Pharmacy Week 2021

In 2021, FIP held its second World Pharmacy Week from 19 to 25 September. During this week, the truly global network of FIP was evident as pharmacists from across the globe became #WPD2021 champions. In addition, FIP held a number of digital events highlighting the varied work of the pharmacy profession:

- “Policy development” explored workforce and education, science and practice elements of FIP Development Goal 14.
- “The role of the pharmacists in the prevention and management of vector-borne diseases” identified the most relevant roles pharmacists can play in the prevention, management and optimal treatment of the most prevalent vector-borne diseases.
- “Trusted for health: Pharmacy and counterfeit medicines worldwide” highlighted regional and global strengths and success stories in the fight against counterfeit medicines.
- “Working together across systems to transform vaccination policy” focused on how pharmacists are forming intra- and interprofessional alliances to deliver areas of policy.
- “Pharmacy intelligence” looked at approaches to community pharmacy data collection and taking forward FIP Development Goal 12 (Pharmacy intelligence).



Over 1,200 colleagues championed World Pharmacists Day in 2021.

Awards*

Recognising achievements in health promotion and pharmacy practice

FIP granted two awards to its member organisations for the best health promotion and best pharmacy practice improvement work.

FIP's 2021 Health Promotion Campaign Award went to the Pharmaceutical Society of Singapore. With an overarching theme of "Digitising health care: Your health at your fingertips", a "virtual carnival" of events was organised focusing on medication management made easy, access to medicines, digital health care, health literacy and the roles and expertise of pharmacists. Campaign tools included livestream talks, educational videos (e.g., on how to use self-care diagnostic devices), infographics, quizzes, a national Pharmacy Week webpage, social media content and Singapore's first virtual pharmacy tours, which allowed the public to take a virtual walk around a community pharmacy and a hospital pharmacy.

FIP's 2021 Pharmacy Practice Improvement Award went to the National Association of Pharmacies (ANF) in Portugal for its "1400 Service" a freephone service created by a pharmacy COVID-19 "crisis cabinet" to maintain care and help ensure safety of citizens and pharmacy teams following a declaration of a state of emergency. It guaranteed that all patients could access their medicines. Open 24 hours a day, it allowed callers to find the closest pharmacy to them that could respond to their need for a medicine and advice. Shortly after launch, its scope was extended to support new pandemic measures for hospital medicines to be dispensed

by community pharmacies and for home deliveries in partnership with the Portuguese postal service. By December 2020, the 1400 number had received over 61,000 calls and 9,200 deliveries of medicines had been organised via the freephone service.

"We are honoured to receive this international award for our initiative, involving the entire pharmacy community in Singapore, which is a strong recognition of our perseverance towards contributing to public health and safety. The topics were relevant and provided much needed guidance for the public to navigate healthcare services. Over 2,000 visits were clocked during the two-day event and the site continued to see repeated patronage subsequently, which is a strong indication of the value of the information provided."



Ms Yong Pei Chean, president, Pharmaceutical Society of Singapore

"People have been highly satisfied with [1400 Service], which reinforced the trust placed in community pharmacists. The service has also helped with the challenges pharmacists faced under COVID-19. It provided a reliable source of advice amid a flood of information, it helped tackle medicines hoarding, and it helped reduce the burden on pharmaceutical teams. The ANF is very proud that its work with partners and community pharmacists to implement this service has been recognised with this award."



Dr Sonia Queiros, ANF head of institutional affairs



Other awards

FIP also made the following awards in 2021:

Distinguished Practice Award

(given to an individual or group who has made an outstanding contribution to pharmaceutical practice)



Prof. James Stevenson (USA)

FIP Fellowship Award

(recognising individual members of FIP for service to the profession and the federation)



Prof. Patricia Acuña-Johnson (Chile)



Dr Dalia Bajis (Bahrain)



Dr Mariet Eksteen (South Africa)



Dr Ian Larson (Australia)



Prof. Don Mager (USA)



Dr Jonathan Penm (Australia)



Dr Bernard Poggi (France)



Mr Olusola Solarin (Nigeria)

Champion for Change

Dr Odhiambo David (Kenya) was selected by the FIP Community Pharmacy Section as its 2021 national champion for change.

COVID-19 support grants

FIP's Academic Pharmacy Section awarded COVID-19 support grants aligned with FIP Development Goal 1 (Academic capacity) for low- and middle-income countries in 2021 to:

- **Dr Mohamed Hassan Elnaem**, kulliyah of pharmacy, International Islamic University Malaysia, for "Telepharmacy practice module for students".
- **Dr Arinola Joda**, associate professor, University of Lagos, Nigeria, for "The psychological impact of COVID-19 on the mental health of staff and students in the faculties of pharmacy and education in two universities in Nigeria".
- **Ms Anisha Kaur**, assistant lecturer, Monash Malaysia, for "Building a pilot module to cultivate resilience in the future pharmacy workforce in Malaysia".

IPS Medal

FIP's Industrial Pharmacy Section (IPS) announced two medalists in 2021:

- **Mr Jude Nwokike** (USA), vice president at the United States Pharmacopeia and director of the Promoting the Quality of Medicines Plus Programme
- **Prof. Sarah Gilbert**, professor of vaccinology, University of Oxford, who co-developed the Oxford–AstraZeneca COVID-19 vaccine with the Oxford Vaccine Group

Prof. Olivier Bugnon Award

The Pharmacy Practice Research Special Interest Group's Prof. Olivier Bugnon Award went to **Ms Denise Hope**, lecturer, School of Pharmacy and Medical Sciences, Griffith University, Australia, for the presentation "Gamification of pharmacy education".

Social and Administrative Pharmacy research grant

Two research grants were awarded by the FIP Social and Administrative Pharmacy Section:

- **Dr Nebojša Pavlović** (Serbia) for a project on "Overcoming barriers to the involvement of community pharmacists in smoking cessation programmes in Serbia: Time for action".
- **Dr Certina Ho** (Canada) for a project on "Quality improvement community of practice for pharmacy professionals".

* FIP awards were reviewed by a working group during 2021 and a new cycle of awards will be established in 2022. More information [here](#).

Elections and Council decisions

The FIP Council, through which all member organisations have voting rights, usually meets once a year. However, an extraordinary meeting was held in March 2021.

At the extraordinary meeting, the Council voted that the current FIP president and immediate past president should serve for an additional year, with their terms of office ending in 2023. An amendment to the [FIP Statutes](#) to enable the terms of office of the FIP president and the immediate past president to be extended in exceptional cases and uncertainties regarding the continuity of FIP due to global crises, such as wars and pandemics, for a minimum of one year and no longer than four years was agreed by the Council at an extraordinary meeting in November 2020.

The FIP Council meeting was held online in September 2021, with over 100 pharmacy leaders in attendance, and the following decisions were made.

Elections and ratifications

The FIP Council ratified:



Mr Luís Lourenço (Portugal), as the new FIP professional secretary

One new FIP vice president was elected:



Mr Lars-Åke Söderlund (Sweden)

Policies

The FIP Council adopted a [Statement of Policy](#) on digital health (see p35).

Summary of vote Results

Votes	N eligible votes	N votes for	N votes against	abstentions	% YES
Vote 1. The Council Members are asked to vote on the reconfirmation of the vote that took place at the Council meeting on 30 November 2020 on the extension of the terms of the FIP President and FIP Immediate Past President.	217	200	2	15	92.2
Vote 2 The Council Members are asked to vote on duration of the extension of the terms of the President and Immediate Past President, which is one year upon the proposal of the Bureau, and the consequent delay of the election of President-elect from 2021 to 2022.	214	194	5	15	90.7

The FIP Council voted that the current FIP president and immediate past president should serve for an additional year.

Bureau members retire

In 2021, two FIP Bureau members ended their terms of service. We acknowledge their work and dedication to our federation, and asked them for their views on taking action as “One FIP”.

“Over the centuries, the pharmaceutical profession has always been part of the solution to demographic changes, the shift in the burden of disease, and the technological development that accompanies the restlessness of a society that is not satisfied with the status quo. Since 1912, FIP has been supporting and leading this adaptation to global needs. During 2021, amid a global health crisis, FIP again took action and inspired, developed and disseminated good practice, science and education resources to better equip the pharmaceutical workforce to live up to people’s and health systems’ expectations. I have never been prouder to be a pharmacist. I have served FIP in the past 20 years, and I thank the organisation and all the friends I have made throughout the years for this incredible honour. I will be forever grateful for your companionship and for having been able to contribute.”



Ema Paulino (Portugal), professional secretary, 2013–21

“For a big federation like FIP, taking action is the best attitude to go forward. In this, FIP performs with excellence. Buoyed by the momentum brought in by experts and colleagues from all parts of the world producing voluntary work and being enthusiastic to serve, FIP is the receptacle of ideas, plans, projects and all sorts of initiatives. It becomes the repository of collaborative documents, reports, operating procedures, guidance and roadmaps that FIP dedicated staff diligently circulate among all member organisations. Here is another strength of FIP: its wide ranging network of contacts with prominent experts sharing, in solidarity, their knowledge and expertise with those able to build on them. An important action during my vice presidency was the creation of the FIP Pharmaceutical Technology Forum, which I had the honour to launch and chair. A major milestone of the forum during my term as chair was the Statement of Policy on digital health developed in the ‘One FIP’ spirit, with representatives from all FIP sections and experts from FIP member organisations. And a significant landmark is in already fulfilling part of FIP’s first commitment in the statement: advocacy. These are outcomes we can be proud of. This is what action gives us. I am grateful to all wonderful colleagues I have worked with who made these achievements possible.”



Jacqueline Surugue (France), vice president, 2017–21



FIP Digital Events

A total of **164 digital events** were developed and delivered by FIP in 2021 — an average of three every week. These comprised 11 series covering the priority FIP programmes of work and over 40 individual events, including a **FIP Global Summit on Primary Health Care** (see p12), a **leadership summit on pharmacy-based vaccination policy and advocacy**, the **FIP-UNITWIN Global Summit on Pharmaceutical Education**, FIP's **Pharmacy Practice Research Virtual Summer Meeting**, FIP's 9th FIP Global Pharmacy Technicians' Symposium, and various topics from FIP's Industrial Pharmacy Section (e.g., generic medicine approvals).

The digital event programme also included the federation's first One FIP live Twitter chat in July, with the support of FIP's Academic Pharmacy Section, where the topic of discussion was how the profession was contributing to universal health coverage and how COVID-19 has impacted contributions.

"Since the decision was taken to postpone our Seville 2021 congress and not to run a specific FIP Virtual congress, we got to work on an extensive programme of online events, which had the support of the FIP Congress Programme Committee. We have been delighted with the good attendance these events achieved from all over the world," said FIP chief operating officer and congress director, Carola van der Hoeft. Areas of "One FIP" importance that were covered included: vaccination, non-communicable diseases, communicable diseases, digital health, primary health care, antimicrobial resistance, COVID-19 and the FIP Development Goals to name but a few.

This vast digital events programme brought many constituencies of FIP together to develop different events. Examples include the joint work of FIP member organisation the Academy of Pharmaceutical Sciences and the FIP Drug Delivery and Manufacturing Special Interest Group on a webinar on manufacturing classification systems, and collaboration from FIP Academic Institutional Membership to organise a webinar entitled "Increasing enrolment in higher education to strengthen and improve the pharmacy profession", and the JoPPP-EMRO Pharm (*Journal of Pharmaceutical Policy and Practice* and Eastern Mediterranean Pharmaceutical Forum) conference.

"In June, the Regulatory Sciences and Quality Special Interest Group (SIG) organised a webinar on dissolution testing, which is an important concept within the pharmaceutical life cycle. We also collaborated with several sections and other SIGs in the preparation of other webinars for 2021, with the One FIP goal of increasing the benefit of FIP for members, partners and society."



Dr Horst-Dieter Friedel, chair,
FIP Regulatory Sciences and Quality
Special Interest Group

"The New Generation of Pharmaceutical Scientists SIG contributed to the FIP COVID-19 series with a webinar entitled 'Drugs to tackle a pandemic — Something old and something new', presenting remdesivir and the new mRNA vaccines. This contribution aligned with our goal of promoting pharmaceutical sciences and highlighting the scientific efforts during the pandemic."



Dr Rebecka Isaksson, chair,
FIP New Generation of Pharmaceutical
Scientists Special Interest Group

"It was an honour to represent the special interest group on new medicines at a webinar on headaches. I was happy to share the science on therapeutic approaches and advancements with practitioners in community pharmacy."



Prof. Takuya Kumamoto, chair,
FIP New Medicines Special Interest Group

"Industrial Pharmacy Section webinars now regularly attract more than 1,000 participants. They've proven to be a great way of promoting IPS and FIP, demonstrated by a significant increase in membership."



Mr Ulf Janson, executive committee member,
FIP Industrial Pharmacy Section

"Our research groups at the Utrecht University and the University of Applied Sciences Utrecht were very excited to collaborate with the Pharmacy Practice Research SIG in a summer meeting event in 2021. It allowed the dissemination of the latest findings in pharmacy practice research and supported the advancement of the pharmacy profession."



Prof. Marcel Bouvy, Utrecht University,
Netherlands

"I attended many FIP webinars during 2021, both scientific and community-oriented. I found them all to be useful in empowering pharmacy professionals with the knowledge to deliver better healthcare services for the welfare and wellness of global society."



Prof. Appiakrishnan Gnanachandran,
dean, Faculty of Pharmacy, Pranav
Institute of Pharmaceutical Sciences
and Research, Gwalior, India

"Attending FIP webinars provides a unique opportunity to learn from our colleagues from around the world about the best practices, new roles and other achievements in pharmaceutical practice, education and science. Participants gain knowledge about new trends and resources. This new knowledge can be used to contribute to transforming the pharmacy profession in our countries. I share the information received with students and plan to use it for developing educational materials."



Dr Irina Kazaryan, associate professor,
Department of Pharmaceutical
Management, Yerevan State Medical
University, Republic of Armenia



Publications in 2021



Curriculum for pharmacy students on substandard and falsified medicines: Curriculum guide and competency framework Supports educators in ensuring that pharmacists are better able to prevent substandard or falsified medicines from reaching patients.



FIP digital health in pharmacy education: Developing a digitally enabled pharmaceutical workforce Presents findings of a survey completed by 1,060 pharmacy schools, faculty members, students and practitioner groups from 91 countries and lays foundation for advancement of digital health through education.

COVID-19 vaccines: Frequently asked questions Information on Moderna, Pfizer/BioNTech and the University of Oxford/AstraZeneca COVID-19 vaccines.



Pharmacy based pandemic vaccination programme: Regulatory self-assessment tool Support for regulators to implement pandemic pharmacy-based vaccination programmes.



Transforming vaccination collection Key outcomes of the FIP Transforming Vaccination Programme 2020, supporting implementation of the commitment that pharmacy professionals around the world made at the end of the programme.



Medicines reconciliation. A toolkit for pharmacists Definitions, impact and procedures for the implementation of pharmacist-led medicines reconciliation, and tools to support practice.

Inequities unmasked FIP's second EquityRx collection contains articles by pharmacists revealing a variety of equity issues under the COVID-19 pandemic.



Nutrition and weight management services: A toolkit for pharmacists Encourages a bigger role in preventing disease and deaths from poor nutrition and obesity.



FIP-UNITWIN Pathfinder toolkit Supports the establishment of regional pharmacy education networks around the world.



FIP Vaccination handbook for pharmacists Details the many ways in which pharmacists can contribute to improving vaccination coverage.



Community pharmacy global report 2021 Presents data from 79 countries, giving the most up-to-date snapshot (exclusive to FIP member organisations) of the state of community pharmacy around the world. Supplemented by **Community pharmacy at a glance 2021**, a summary available to all.



Role of early-career pharmaceutical groups in global health FIP's Young Pharmacists Group highlights the impact of young pharmacists and pharmaceutical scientists on global health.



The global threat of air pollution and its impact on patient care Summary of a round table on empowering pharmacy teams to optimise patient care in the face of air pollution.



Global pharmacists and pharmaceutical scientists: Twenty years of FIP YPG Stories Stories from YPG leaders.



FIPWISE toolkit for positive practice environments for women in science and education Raises awareness of five key domains that require attention.



Building vaccine confidence and communicating vaccine value: A toolkit for pharmacists Approaches for communicating, eliciting change and addressing misinformation.



FIP Global Humanitarian Competency Framework Guides the development of pharmacists practising or wishing to practise in the humanitarian field, providing pharmaceutical expertise and services during disasters, including wars.



FIP primary health care digital toolkit A resource hub of FIP's materials developed around the Declaration of Astana.



Diabetes prevention, screening and management: A handbook for pharmacists Information on the wide range of pharmaceutical services that pharmacists can provide to reduce the global burden of diabetes.



Pharmaceutical services in immunisation: Contributions, experiences and implementation in the Americas region A technical document produced by the Pharmaceutical Forum of the Americas citing cases of successful participation of pharmacists in immunisation. Available in English, Portuguese and Spanish.



Online pharmacy operations and distribution of medicines Produced by FIP's Community Pharmacy Section. Findings of a global survey of pharmacy organisations on aspects of online pharmacy, including the types of medicines supplied, how the authenticity of online pharmacies can be verified, and the use of e-prescriptions and shared health records.



Cold, flu and sinusitis: Managing symptoms and supporting self-care — A handbook for pharmacists Describes pharmacists' roles in supporting appropriate management of common upper respiratory tract infections.

Biowaiver monographs

For **carbamazepine** and **sitagliptin**, developed by the Regulatory Sciences and Quality Special Interest Group's Bioclassification/Biowaiver Focus Group.

EquityRx blogs

Seven stories and views about gender equity championing women in global pharmacy and health.

Statements and commitments

In-pharmacy COVID-19 testing (FIP Holding Statement).

Accelerating vaccine equity for pharmacy teams on the front line (FIP Statement of Principle).

Digital health (FIP Statement of Policy).

FIP Global commitment to action on primary health care.

FIPWiSE podcasts

Featuring **Vibhuti Arya**, FIP global lead for gender equity and diversity workforce development; **Sini Eskola**, regulatory drug development and manufacturing director, European Federation of Pharmaceutical Industries and Associations; **Reenu Yadav**, vice president human rights and social justice committee and dean and scientist, Bhabha University, India; and **Christina Chai**, head of department and professor, Department of Pharmacy, Faculty of Sciences, National University of Singapore.

FIPWiSE Words

Videos featuring: **Charlotte Rossing**, director of research and development, Pharmakon; **Lilian Azzopardi**, head of Pharmacy Department, University of Malta, and **Shania Liu**, PhD student, University of Sydney, (**on mentorship**); **Patricia Acuña-Johnson**, School of Chemistry and Pharmacy, Valparaíso, Chile, and **Andreia Bruno-Tomé**, global lead for FIP Development Goal 5 (**on motivating others**); and **Louise Brown**, professor at UCL School of Pharmacy.



International Pharmacy Journal (Seven monthly issues).

Medicinal plants

Twenty videos describing plants grown in the Experimental Station for Medicinal Plants, Kyoto University, Japan, produced by the FIP Focus Group on Natural Products and Traditional Medicines chair.



Pharmacy Education journal (74 research articles).

Translations

“Responding to disasters: Guidelines for pharmacy” in **Chinese**, thanks to senior colonel Chen Zheng-Yu, FIP China Envoy.

“An overview of pharmacy’s impact on immunisation coverage. A global survey” in **Turkish**, thanks to the Turkish Pharmacists Association.

“Give it a shot: Expanding immunisation coverage through pharmacists” in **Spanish**, thanks to the Venezuelan Pharmaceutical Federation.

“Pharmacy based pandemic vaccination programme: regulatory self-assessment tool” in **French**, **Portuguese** and **Spanish**.

“Vector-borne diseases: A handbook for pharmacists” in **French**, thanks to the African Pharmaceutical Forum, in **Portuguese**, thanks to the Association of Pharmacists of Portuguese Speaking Countries, and in **Spanish**, thanks to the Forum of the Americas.

“Community Pharmacy at a glance 2021” in **Turkish**, thanks to the Turkish Pharmacists Association.

“FIP vaccination handbook for pharmacists” in **Spanish**, thanks to the General Pharmaceutical Council of Spain.

“Patient safety: Pharmacists’ role in “Medication without harm” in **Portuguese**, thanks to the Brazilian Federal Council of Pharmacy.

FIP call to action: Mobilising pharmacists across our communities to mitigate the impact of air pollution on health in **Arabic**, **Chinese**, **French**, **Portuguese**, **Russian** and **Spanish**.

FIP Hospital Pharmacy Section **Basel Statement Self-Assessment Tool** in **Indonesian** and **Spanish**.

Work in progress

During 2021, FIP’s activities also included:

Discharge information

FIP’s Health and Medicines Information Section created written discharge medication information templates in English, Vietnamese and Chinese, being tested.

Education and digital health

FIP developed a “**Train the trainer online course on digital health in pharmacy education**”, launched in January 2022.

Evidence to advance practice

FIP conducted surveys in 2021 (findings to be published in 2022) to assess multinational education and training needs, competency-based education for pharmacy/pharmaceutical science, postgraduate training for pharmaceutical scientists, and global leadership needs.

FIP Development Goals

FIP evaluated the work delivered in 2021. The “**FIP Development Goals report 2021**”, released in January 2022, presents a global status update on the goals.

FIP congresses

FIP’s **80th annual world congress** will be held in Seville, Spain, in 2022. Dates and the location for FIP’s 8th Pharmaceutical Sciences World Congress will be announced soon.

FIP Global Platform for Provision and Partnerships

FIP developed quality criteria to award providers of training programmes and professional development and accreditation agencies of pharmacy education with the FIP Seal. Handbooks for **providers** and **accreditors** were published in February 2022.

FIP-UNESCO UNITWIN programme

FIP sought renewal of its agreement with UNESCO to continue the UNITWIN programme. Regional roadmaps developed at FIP-UNITWIN workshops will be published in 2022.

Global Pharmaceutical Observatory (GPO) and FIP Atlas

FIP started work on a visualisation platform called the FIP Atlas which displays impactful pharmaceutical data in an innovative way. Links will be made between the atlas and the GPO. FIP has summarised its publications from 2012 to 2022 in order to identify gaps and inform FIP’s Health Ministers Summit in 2023.

Industrial pharmacy

FIP’s Industrial Pharmacy Section is developing a survey on what value-added roles pharmacists can play in the pharmaceutical industry.

Medicines and driving

FIP’s Health and Medicines Information Section is measuring the impact of the FIP policy paper on medicines and driving.

Medicines for children

FIP’s Paediatric Formulations Focus Group launched a survey to identify current oral extemporaneous compounding practices for children’s medicines.

Non-communicable diseases

Development started on a new handbook for mental health.

Official status with the WHO

FIP worked to renew its status as a non-governmental organisation in official relations with the World Health Organization. Successful renewal was announced in February 2022.

Patient safety

FIP worked to update its 2020 medicines use review toolkit in order to reflect a wider scope of practice for pharmacists in reducing medication risks and errors.

Self-care

FIP worked on **guidance** for pharmacists on supporting self-care in six areas, published in February 2022.

Substandard or falsified medicines

FIP continued work with the World Health Organization to encourage teaching on substandard or falsified medicines. A WHO-FIP round table to share the outcomes of universities adopting the WHO-FIP SF medicines curriculum guide was held in March 2022.

Sustainability

A new programme, SustainabilityRx, will support FIP Development Goal 21. Plans for 2022 include a FIP declaration on climate change.

Women in Science and Education

The FIP Women in Science and Education initiative created an annual list of “**FIPWiSE Rising Stars**” to champion early career women in pharmaceutical sciences or pharmacy education.

Finances

Balance sheet at 31 December 2021

After appropriation of the results for 2021
(Expressed in EURO)

	31 December 2021	31 December 2020
Intangible fixed assets	13 746	40 683
Tangible fixed assets	570 594	617 212
Current assets		
Debtors, prepayments and accrued income	323 068	104 160
Cash at bank and in hand	3 065 712	3 102 378
Total current assets	3 388 780	3 206 538
Total assets	3 973 120	3 864 433
Capital and reserves		
FIP capital	1 294 282	1 150 082
Sections capital	784 537	712 685
Congress reserve	650 000	650 000
Board of Pharmaceutical Practice reserve	41 703	41 703
Board of Pharmaceutical Sciences reserve	58 705	58 705
Reserve FIPeD	125 959	125 959
One FIP Project Fund	255 272	272 500
Total capital and reserves	3 210 458	3 011 634
Provisions	41 836	40 871
Current liabilities	720 826	811 928
Total capital and reserves and liabilities	3 973 120	3 864 433

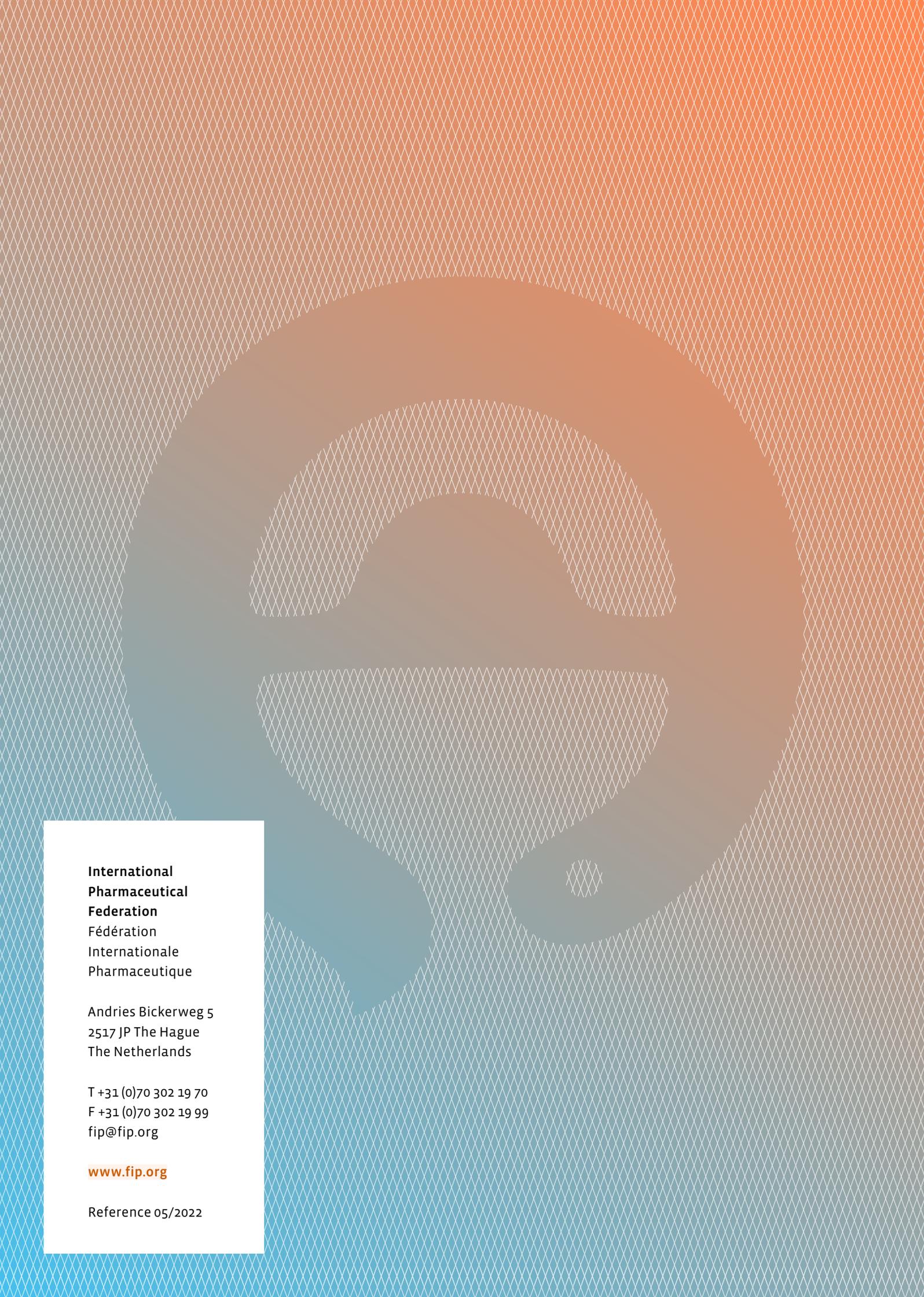
	Actuals 2021	Budget 2021	Budget vs actuals	Actuals 2020
Income				
Membership fees FIP (excl. sections)	1 048 504	1 067 501	(18 997)	1 105 012
Congress revenues (incl. regional congresses)	(1 109)	1 700 000	(1 701 109)	152 721
Other income BPS	-	-	-	-
Sections income	86 744	85 040	1 704	101 117
External partnerships, support and other	1 124 621	500 000	624 621	851 827
Membership fees of prior years	4 038	20 000	(15 962)	20 981
Total income	2 262 798	3 372 541	(1 109 743)	2 231 658

Expenses				
Membership costs	28 748	30 000	(1 252)	17 042
Personnel costs	1 101 422	1 300 000	(198 578)	1 067 472
Office costs	119 117	150 000	(30 883)	151 386
Executive Committee and Bureau meeting costs	9 838	120 000	(110 162)	22 942
Travel expenses & external representation	986	50 000	(49 014)	7 088
Website and IT	190 747	135 000	55 747	147 296
GPO & Atlas	147 746	100 000	47 746	67 333
Depreciation of fixed assets	46 618	40 000	6 618	41 519
FIP Provision	55 660	-	55 660	-
ONE FIP Projects	17 228	-	17 228	-
Other (Special) Projects	118 228	80 000	38 228	110 044
FIP congress costs (incl. regional congresses)	2 534	1 200 000	(1 197 466)	321 090
Publication and communication costs	42 946	65 000	(22 054)	48 136
FIP Subventions	25 000	25 000	-	25 000
BPP Expenses	36 136	74 500	(38 364)	29 815
BPS Expenses	117	40 000	(39 883)	9 155
Sections' operating costs	14 892	129 336	(114 444)	55 535
Academic Institutional Membership	13 865	15 000	(1 135)	35 605
Pharmacy Education journal & FIP Hub	59 330	-	59 330	-
Other FIPeD expenses	30 371	60 000	(29 629)	34 456
Building Maintenance Fund	15 000	15 000	-	15 000
Members & Regional engagement (Business Dev.)	26 204	20 000	6 204	5 497
Total expenses	2 102 733	3 648 836	(1 546 103)	2 211 411

Operating result	160 065	(276 295)	436 360	20 247
Financial result	38 759	5 000	33 759	30 940
Net result before appropriation	198 824	(271 295)	470 119	51 187

Appropriation of the result, (from)/to:

BPP general reserves	-	(30 500)	30 500	(50 000)
BPS general reserves	-	(26 500)	26 500	(50 000)
Sections capital	71 852	10 000	61 852	45 582
Reserve FIPeD	-	(60 000)	60 000	(50 000)
One FIP Project Fund	(17 228)	-	(17 228)	150 000
FIP capital	144 200	(164 295)	291 267	5 605
Total appropriated	198 824	(271 295)	452 891	51 187



**International
Pharmaceutical
Federation**
Fédération
Internationale
Pharmaceutique

Andries Bickerweg 5
2517 JP The Hague
The Netherlands

T +31 (0)70 302 19 70
F +31 (0)70 302 19 99
fip@fip.org

www.fip.org

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