2021-2022 IMPACT REPORT

ashp Foundation

COLLABORATING TO ADVANCE THE FUTURE OF PHARMACY

A NOTE FROM ASHP FOUNDATION LEADERS



With the pandemic still a factor in our lives, pharmacists and those in the pharmacy workforce have continued to demonstrate their agility and resilience as critical members of an interprofessional team, working to optimize patient outcomes and prepare for the challenges of tomorrow.

To that end, the ASHP Foundation continues its commitment to supporting research and education programs that focus on change, innovation, and, ultimately, improving patient outcomes.

We are excited to share the accomplishments of the ASHP Foundation in support of ASHP and ASHP members over the last fiscal year (June 1, 2021–May 31, 2022). Here are just a few highlights of the Foundation's far-reaching impact over the last year:

- The ASHP Foundation published two research reports one on radio frequency identification (RFID) technology (page 3) and one on the adoption of biosimilars (page 3) — which demonstrate pharmacy's leadership in technology and treatment innovations.
- In partnership with the American Nurses Foundation, we awarded our first \$75,000 Collaborative Care Research Grant for Nurses and Pharmacists to the University of Pittsburgh Medical Center for a medication management project that shows the positive outcomes of team-based care. | Page 4
- As a follow-up to ASHP's highly successful summit on specialty pharmacy, the ASHP Foundation partnered with the ASHP Section of Specialty Pharmacy Practitioners to offer a new competitive research grant program. The Specialty Pharmacy Care in Rheumatoid Arthritis Research Grant awarded five grants of \$5,000 each to projects that assess patient and

organizational outcomes, demonstrating the value of integrated health-system specialty pharmacy services. | Page 7

 To enhance leadership skills and build a community of researchers, we augmented existing grant programs such as the Pharmacy Leadership Scholars and the Specialty Pharmacy Care in Rheumatoid Arthritis Research Grant, to include mentoring opportunities with seasoned researchers and leaders in the field.

Through your generous contributions, the Foundation is able to fund important research that advances pharmacy practice, education that prepares the pharmacy workforce to assume leadership roles, and awards that foster innovation by recognizing cutting-edge research and excellence in practice.

Thank you for your support of the ASHP Foundation. Thank you for investing in the future of pharmacy.



John T. Tighe, III Chair, ASHP Foundation Board of Directors



Steven A. Rubloff Chief Executive Officer

Advancing Science, Pharmacy Practice, and Health Outcome

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2022 PHARMACY FORECAST™ REPORT

The Pharmacy Forecast Report is supported by a donation from Omnicell to the ASHP Foundation David A. Zilz Leaders for the Future Fund.

2022 Pharmacy Forecast[™] is a must-read resource and important strategic planning tool for pharmacy leaders. Consistently the top-read article in *AJHP*, the *Pharmacy Forecast* provides perspectives and insights into emerging trends that impact the practice of pharmacy and the health of patients.

The themes and insights of the 2022 Pharmacy Forecast acknowledge lessons learned from the COVID-19 pandemic and disparities brought to light by social injustices and inequality. These key themes — value, access, disparity, equity, resilience, agility, and preparedness — consider the social environment in which pharmacists practice and lead.

In the 2022 Pharmacy Forecast, editor Joseph T. DiPiro, PharmD, and co-authors elaborate on the annual survey findings. Most of the Forecast Panelists agreed that pharmacists play a critical role in establishing and maintaining a health system's agility and resilience. This was demonstrated throughout the COVID-19 pandemic. Collaborations with manufacturers, community organizations, and in small integrated teams were deemed very likely strategies to handle challenges in the drug supply chain, access to care, and optimizing outcomes, respectively.

Read the 2022 Pharmacy Forecast Report

DONATION DOLLARS AT WORK

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The *Pharmacy Forecast* is widely used for strategic planning, and it is placed in the **top 5% of all research outputs scored by Altmetrics.** Altmetrics measures the impact that a research publication has on its intended audience.

Foundation

FOUNDATION-SUPPORTED RESEARCH DRIVES PHARMACY INNOVATION

Advancing Medication Safety Through Technology Innovations: Focus on Radio-Frequency Identification (RFID) Technology

This project is sponsored by Fresenius Kabi.

This report, produced in collaboration with the ASHP Innovation Center summarizes the ASHP Foundation's research on the current state of RFID technology in healthcare and the challenges and opportunities of full implementation of RFID technology in medication management. The report examines factors that stimulate and hinder the adoption of RFID technology and its potential impact on patient care. In addition to the report, the Foundation held two companion webinars to highlight trends and explore the report in depth.

Read the Report





Accelerating Adoption of Biosimilars

This initiative is sponsored by Amgen.

Biosimilars are an important innovation with the potential to expand patient access to therapies. However, the adoption of biosimilars has been slow in the United States. To further understand the use of biosimilars and to enhance adoption, ASHP and the ASHP Foundation engaged a group of stakeholders to develop a deeper understanding of current trends, understand health-system challenges and opportunities, and identify best practices learned from early adopters of biosimilars. The results of this research were published in the *"Accelerating the Adoption of Biosimilars"* report, companion webinar, and podcast.

Read the Report

COLLABORATIVE CARE GRANT FOR NURSES AND PHARMACISTS

Created in partnership with the American Nurses Foundation, this grant program aims to stimulate patient-centered interprofessional health services research that demonstrates meaningful outcomes.

James C. Coons, PharmD, FACC, FCCP, BCCP, and Jennifer Kliner, CRNP, ACNP-BC, both pictured below, from the University of Pittsburgh, received the first \$75,000 Collaborative Care Grant for Nurses and Pharmacists for their proposal, "Achieving Medication Optimization for Patients With Heart Failure Through an Innovative Nurse Practitioner-Pharmacist Collaboration."

The project pilots a telemedicine-based model of care to enhance optimal medical therapy using an innovative nurse practitioner-pharmacist collaboration. The project will also determine scalability and if this practice model decreases hospitalizations and mortality due to heart failure.





Learn More About Their Research

DONATION DOLLARS AT WORK

The Foundation has awarded over **\$4.7 million in research funding** since 2004 to advance pharmacy practice, increase access to medications, and enhance patient outcomes.

OPTIMIZING TECHNOLOGY SOLUTIONS INNOVATION GRANT

This program is supported by a grant from Omnicell.

Created in partnership with the ASHP Innovation Center, the Optimizing Technology Solutions Innovation Grant program supports projects demonstrating how new and emerging technologies can aid in the safe and effective use of medications. In 2022, the Foundation awarded \$60,000 in grants to two recipients:



"Evaluating the Impact Of a Pharmacist-Led Comprehensive Diabetes Management Program In a Federally Qualified Health Center Utilizing Telehealth"

Bethanne Brown, PharmD University of Cincinnati Winkle College of Pharmacy



"Use Of Rule-Based Automation In Order Verification"

Susan Flaker, PharmD, MBA, DPLA Mayo Clinic Health System

Learn More About These Grantees

DONATION DOLLARS AT WORK

In FY 2022, the **Foundation awarded \$60,000 in grants** to support research projects focused on using technology to improve medication management and safety.



DONATION DOLLARS AT WORK

The Foundation awards up to **eight Pharmacy Resident Research Grants of \$5,000 each year** to advance pharmacy practice and develop research skills.

PHARMACY RESIDENT RESEARCH GRANTS

The Pharmacy Resident Research Grant program, funded through the Joseph A. Oddis Endowment Fund, supports quality health services research focused on practice advancement conducted by pharmacy residents in ASHP-accredited pharmacy residency programs. Resident researchers partner with a senior investigator who mentors them throughout the project.

GRANTEE SPOTLIGHT: Courtney Paetznick, PharmD Children's Minnesota

Principal investigator Courtney Paetznick, PharmD, and senior investigator Jacob Brown, PharmD, MS, received a Pharmacy Resident Research Grant for the study, "Assessing The Impact Of Integrating a Pharmacogenomics-Trained Pharmacist Into the Care Team Serving Pediatric Patients With Sickle Cell Disease."

This project integrates a pharmacist trained in clinical pharmacogenomics (PGx) into the care

team, providing comprehensive medication management (CMM) and PGx clinical services. The project's primary objective is to assess the satisfaction of providers, patients, and caregivers with respect to having a PGx-trained pharmacist involved in the CMM of pediatric patients with sickle cell disease.

Learn About Our Other Grantees



SPECIALTY PHARMACY CARE IN RHEUMATOID ARTHRITIS RESEARCH GRANTS

The new Specialty Pharmacy Care in Rheumatoid Arthritis (RA) Research Grants, offered in partnership with the ASHP Section of Specialty Pharmacy Practitioners, support projects that assess patient and organizational outcomes and demonstrate the value of team-based, integrated specialty pharmacy services.



GRANTEE SPOTLIGHT: Jeffrey Lew, PharmD, BCPS MultiCare Health System

Dr. Lew received a \$5,000 grant for his project, "*Evaluation Of an Embedded Rheumatology Specialty Clinical Pharmacists Within an Integrated Health System*," which will evaluate clinical, operational, and financial outcomes of applying elements of health-system specialty pharmacies workflow to RA patients.

Learn More About the Projects Funded

DONATION DOLLARS AT WORK

The **Foundation awarded a total of \$25,000** through the new Specialty Pharmacy Care in Rheumatoid Arthritis Research Grant.

DONATION DOLLARS AT WORK

Since 2006, the **Pharmacy Residency Excellence Awards have recognized nearly 50 awardees**

who have demonstrated innovation and leadership in the training and mentoring of pharmacy residents, which is crucial to the development of future leaders and raising the level of practice.

PHARMACY RESIDENCY EXCELLENCE AWARDS

The 2021 Pharmacy Residency Excellence Awards were supported by Amgen and Samson Medical Technologies.

The Pharmacy Residency Excellence Awards honor residency programs and preceptors who have demonstrated excellence in training pharmacy residents. Award recipients are honored for their innovative methods to train, motivate, and mentor residents in their residency programs and the early years of their careers.

* Preceptor Award

Pharmacv

James C. Coons, PharmD, FACC, FCCP, BCCP University of Pittsburgh School of

* Program Award

Postgraduate Year Two Infectious Diseases Pharmacy Residency Program Henry Ford Hospital

NEW PRECEPTOR AWARD Ami Shah, PharmD, BCCCP Mount Sinai Morningside Medical Center

"I believe my passion for research and project management really stems from my commitment to generate and disseminate new knowledge. I believe that once one has mastered the ability to apply, analyze, and evaluate, I feel that the best way to really advance the profession is then to create new knowledge to further patient care and medical therapy."



Learn About the Award Recipients

ASHP FOUNDATION LITERATURE AWARDS

For over 50 years, the ASHP Foundation's Literature Awards have honored pharmacists who have advanced pharmacy practice by contributing to biomedical literature. Recognizing such excellence inspires research and innovation, ultimately improving patient care.

The Literature Awards recognize research articles in the following categories: Innovation in Pharmacy Practice, Drug Therapy Research, Pharmacy Practice Research, Student Research, and Sustained Contributions, which recognizes a pharmacist with a 20-year record of publishing high-quality biomedical literature.

The 2021 Literature Award Recipients are:

* Drug Therapy Research

Jason Hecht, PharmD, BCPS, BCCCP

"Association Of Timing Of Initiation Of Pharmacologic Venous Thromboembolism Prophylaxis With Outcomes In Trauma Patients," Journal of Trauma and Acute Care Surgery

Innovation in Pharmacy Practice

Bruce Chaffee, PharmD, FASHP

"A Compounding Compliance Team At an Academic Medical Center," AJHP

Pharmacy Practice Research

Joseph Herges, PharmD, BCPS

"Impact Of Collaborative Clinician Visits On Postdischarge Total Cost Of Care In a Polypharmacy Population," AJHP

* Student Research

Neda Kazerouni, PharmD

"Pharmacy-Related Buprenorphine Access Barriers: an Audit Of Pharmacies In Counties With a High Opioid Overdose Burden," Drug and Alcohol Dependence

2021 Literature Award for Sustained Contributions

Sandra Kane-Gill, PharmD, MSc University of Pittsburgh School of Pharmacy



Dr. Kane-Gill's research focuses on detecting, preventing, and managing medication errors and adverse drug events. In addition, Dr. Kane-Gill has successfully incorporated health information technology, including clinical decision support and telemedicine to promote better safety and quality of care for patients.

To Dr. Kane-Gill, "Research is a team sport. Finding that great team is really important because you cannot do it alone."

Read About the Literature Awards

DONATION DOLLARS AT WORK

The Literature Awards have recognized innovative research in **more than 180 articles** since 1971.

THE PHARMACY LEADERSHIP ACADEMY®

Supported in part by an educational grant from Apexus.

The Pharmacy Leadership Academy[®] (PLA) is one of the profession's top leadership development programs, consisting of seven courses woven into one integrated online program. The stellar faculty leads participants in challenging readings and activities that come together to form this transformational leadership program. After completing the program, PLA graduates can use the unique designation of Diplomate, Pharmacy Leadership Academy (DPLA). In 2022, the Foundation was thrilled to welcome 110 new graduates into the PLA's network of global pharmacy leaders.

PLA GRADUATE SPOTLIGHT:



Leila Tibi-Scherl, PharmD, MBA, DPLA Pharmacy Leadership Academy Class of 2016-2017

"The PLA impressed upon me valuable learnings of meaningful change that I continue to utilize in my personal and professional life. I continue to thirst for more growth opportunities in my leadership journey. I am excited to be a part of the faculty for the ASHP Pharmacy Leaders Impactive Collaborative and have recently been invited to be a part of the faculty for the PLA. I am grateful and humbled to be on this leadership path with hopes to impress upon valuable learnings the PLA has provided me to others."

Learn More About the PLA

DONATION DOLLARS

Over 1,000 pharmacy leaders have graduated from the PLA since 2008 with the skills to direct innovation and change in pharmacy practice.

INSPIRING FUTURE PHARMACY

LEADERS

MEDICATION SAFETY SCHOLARS

This program is offered by the ASHP Foundation in collaboration with the Emily Jerry Foundation and the ASHP Student Forum.

The first five Medication Safety Scholars (pictured below the ASHP Foundation's Vice President for Research and Education Barbara Nussbaum, BSPharm, PhD) completed the inaugural program designed to develop future leaders in medication safety.

Over the academic year, the Scholars completed the ASHP Medication Safety Certificate, participated in leadership mentoring, and worked with a faculty coach to develop the Medication Safety Toolkit to raise medication safety awareness among pharmacy students.

View the Toolkit

VISITING LEADERS PROGRAM

Supported by the ASHP Foundation Sara J. White Leadership Fund and the David A. Zilz Leaders for the Future Fund.

In FY 2022, the Visiting Leaders Program sent a distinguished healthsystem pharmacy leader to 25 residency programs to engage with residents and preceptors to explore emerging leadership topics.

Sabrina Romean, JD, RPh, MTM-C, Director of Pharmacy at Inspira Health Network, had this to say about their experience hosting Visiting Leader Sara White:

"Inspira's PGY1 Pharmacy Residency program had the honor of hosting ASHP Visiting Leader Sara White. Together with our colleagues from Atlanticare, Cape Regional, and Shore Memorial, our residents learned leadership skills from a renowned pharmacy leader!"

Find Out More About the Visiting Leaders

DONATION DOLLARS AT WORK

The ASHP Foundation helps prepare new pharmacists for practice by **supporting over 200 residency program visits** by pharmacy leaders through the Visiting Leaders Program since 2012, **reaching more than 1,600 residents**.

PHARMACY RESIDENCY EXPANSION GRANTS

The Pharmacy Residency Expansion Grant Program is supported by Merck.

Increasing the number of residency opportunities for pharmacists is a priority for ASHP. The ASHP Foundation is directly addressing this priority through the Residency Expansion Grants program, which awards \$25,000 in matching grants to assist institutions with offering new or expanded residency positions to address the shortage.

In 2022, three institutions were each awarded a \$25,000 Pharmacy Residency Expansion Grant:

- University of California Davis Medical Center
 Postgraduate Year Two Pediatrics Residency Program
 Residency Program Director: Brent Hall, PharmD
 Director of Pharmacy: Chad Hatfield, PharmD, MHA
- Lehigh Valley Health Network
 Postgraduate Year One Residency Program
 Residency Program Director: Kristin Held Wheatley, PharmD
 Director of Pharmacy: AnnMarie Higgins, PharmD, MBA
- University of Mississippi Medical Center

Postgraduate Year Two Infectious Diseases Residency Program Residency Program Director: Kayla Stover Hielscher, PharmD Director of Pharmacy: Zachery Somers, PharmD

Read About This Grant

DONATION DOLLARS AT WORK

Since 2011, the Foundation has been addressing the shortage of pharmacy residency positions by providing more than **\$3.5 million in match funding to establish 105 new residency positions** through the Pharmacy Residency Expansion Grant Program.

ASHP CLINICAL SKILLS COMPETITION

The ASHP Clinical Skills Competition is supported by a grant from the ASHP Foundation to ASHP.

The ASHP Clinical Skills Competition is an interactive, team-based analysis of clinical scenarios for hospital and health-system pharmacists. The competition is held annually at ASHP's Midyear Clinical Meeting and provides pharmacy students the opportunity to enhance their skills in providing direct patient care.

2021's winning teams were:

- First Place
 Lauren Campisi and Yumi Oh
 Auburn University
 Harrison School of Pharmacy
- Second Place
 Jonathan Little and Allison Middernacht
 Wilkes University
 Nesbitt School of Pharmacy

* Third Place

Zoe Adjei and Abby Leisure University of Cincinnati James L. Winkle College of Pharmacy

DONATION DOLLARS AT WORK

The ASHP Foundation provides pharmacy students with the opportunity to enhance their patient care skills by **providing nearly \$400,000 in support of the Clinical Skills Competition** since 2009.

Learn More About the Competition

ASHP STUDENT LEADERSHIP AWARDS

The ASHP Student Leadership Awards are supported by a grant from the ASHP Foundation to ASHP.

The ASHP Student Leadership Award Program recognizes leadership abilities in students interested in a career in health-system pharmacy. Up to twelve students per year are honored as future leaders in the field.

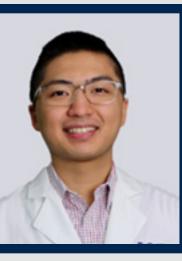


AWARDEE SPOTLIGHT: Aliyah Cruz University of North Carolina Eshelman School of Pharmacy

Aliyah's motivation for entering pharmacy school stems from growing up as a Latinx female in a predominately white, southern, rural town. She wanted to help the underserved in her community, positively impact the well-being of her community, and promote more diversity amongst healthcare providers. Aliyah's interests include population health, informatics, policy, and 340B.

AWARDEE SPOTLIGHT: Brian Kam Binghamton University School of Pharmacy and Pharmaceutical Sciences

Before starting pharmacy school, Brian hit the ground running by launching Binghamton University's Pre-Pharmacy Association, from which experience he discovered his passion for leadership. Brian has since taken on many leadership roles under the umbrella of ASHP. Following graduation, he hopes to continue to develop his leadership skills and advocate for the pharmacy profession.



DONATION DOLLARS AT WORK

ASHP Student Leadership Awards recognize up to 12 students each year (through awards of \$2,000 each) with an interest in health-system pharmacy practice who have demonstrated leadership ability. **Since 2009, the Foundation has provided over \$300,000 in funding to ASHP** for the awards.



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THANK YOU, DONORS

The ASHP Foundation's supporters form the cornerstone of everything we do.

It is only through your generous gifts that the ASHP Foundation can continue to fund vital programs that support ASHP member priorities, advance pharmacy practice, and improve patient outcomes.

DONOR

"I support ASHP's Foundation because ASHP has been quite impactful in my leadership career journey. From being recognized as a recipient of ASHP's 1998 Student Leadership Award to serving in 2020 as Chair of the Specialty Pharmacy State of Practice in Hospital and Health Systems Summit Steering Committee, my service to ASHP has afforded me



immeasurable growth. It is simply a pleasure to give back through the Foundation. I feel obligated to do my part and make certain that opportunities and programs offered by the ASHP Foundation are sustained for years to come."

— Udobi Campbell, PharmD, MBA

We are grateful for our donors and supporters

VOLUNTEER

"Volunteering for the ASHP Foundation's Donor Outreach Committee has been a rewarding experience for me. As a past Executive Committee Member of the ASHP Pharmacy Technician Forum, donating my time is my contribution to impacting fellow and future ASHP members. The volunteer commitment is perfect for me as it usually occurs during my winter breaks in



college when I have more free time, and **it's my way of giving back to a great organization that has momentously advanced my career as an Advanced Pharmacy Technician**."

- Tiffany Kofroth, CPhT-Adv, CSPT, PhTR

CORPORATE SUPPORTER

"Chiesi is proud to be an ASHP Foundation Corporate Sponsor. We are a B Corp™ committed to actionable progress towards health equity. **The**



opportunity to support the ASHP Foundation's Pharmacy Leadership Scholars program allows us to do so in partnership and collaboration with pharmacy leaders of today and tomorrow. We have applied new knowledge from the scholars' progress reports to our own DE&I efforts. Together we are learning how to promote diversity, equity, and inclusion in healthcare."

> Jon Zwinski, CEO and General Manager, Chiesi USA, Inc.

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Our four lifetime giving societies, Diamond, Emerald, Sapphire, and Pearl, are the ASHP Foundation's most prestigious donor recognition societies that honor donors who have given specific levels of contributions over their lifetime.

We are extraordinarily grateful for these donors' commitment, involvement, cumulative giving, and continued support and collaboration. **Diamond** \$100.000 or more

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"For me, supporting the ASHP Foundation is a commitment to the profession I believe in and supports the pharmacist oath I committed to when I became a pharmacist."

— Kathy Pawlicki, BSPharm, MS, RPh, FASHP, Past President, ASHP, Pearl Society Donor Emily Alexander Daniel M. Ashby Minnie Baylor-Henry Cynthia Brennan Malcolm J. Broussard Susan A. Cantrell Jannet M. Carmichael Harold Chappelear Deanna M. Dimmitt David J. Edwards Ronald P. Evens Michael S. Flagstad Christopher Fortier Lisa M. Gersema Diane B. Ginsburg

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THE ODDIS SOCIETY

The Oddis Society recognizes all donors who generously donate \$1,000 or more to the ASHP Foundation on an annual basis.

The Oddis Society's namesake, ASHP CEO Emeritus Dr. Joseph A. Oddis, was a visionary leader and a founder of the ASHP Foundation. We honor his profound and lasting impact on modern clinical pharmacy, patient care, and public health by celebrating those donors who support the Foundation's investment in ASHP members and the future of pharmacy.

With the support of the generous donors in the Oddis Society, the Foundation can continue to fund vital research and education that benefit all levels of the pharmacy profession, including pharmacists, students, residents, and technicians.

We are grateful for the generosity of our Oddis Society donors.

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Pictured: Dr. Joseph A. Oddis, ASHP CEO Emeritus, 1960-1997

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THANK YOU, CORPORATE SUPPORTERS

Thanks to our generous corporate supporters, including our Corporate Partners Program participants, Donor Match Campaign contributors, and program supporters, the ASHP Foundation invests in high-impact health-services research grants, awards that stimulate innovation in training and literature, and education programs that prepare pharmacists for leadership roles in pharmacy and healthcare.

The ASHP Foundation Corporate Partners Program is a strategic alliance between the ASHP Foundation, ASHP, and corporate supporters that provides a platform to share ideas and insights that advance the pharmacy profession and improve healthcare.

We are grateful for the generous support we receive from the corporate community.

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Through a diverse range of programs that are generously supported by individual and corporate donors, we fulfill our mission by providing pharmacists and the pharmacy workforce with opportunities to pursue health services research, develop leadership skills, and recognize excellence in practice and research - all in support of improving public health and patient safety.

We are grateful for the support from these generous program supporters.



Medication-Use Evaluation



Research on Stimulation of **Biosimilars Adoption**



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Pharmacy Residency Excellence Awards





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Our annual Impact Report demonstrates how the support of generous donors like you have a significant and direct impact on improving patient care and advancing pharmacy practice.

Thank you!

The ASHP Foundation is 100% donor supported, and we promise to be thoughtful and careful stewards of your gifts. Your contributions will be used efficiently and effectively to fulfill our mission of supporting ASHP members, advancing pharmacy practice, and promoting the safe and effective use of medications.

In addition, because of our commitment to transparency and responsibility, the Foundation has earned the Platinum Seal of Transparency, GuideStar's highest rating for charitable organizations.



To our most valued collaborators — our donors — thank you for your continued support and generosity!

Our Mission

Our mission is to support ASHP by advancing the professional practice of pharmacists and the pharmacy workforce by funding research and education that improves health outcomes through optimal, safe, and effective medication use.

