

Collaboration of Global Faculty to Empower Students and Pharmacists as Future Immunizers

Sandy (Jeong Yeon) Rhie, PharmD, PhD, Professor
Ewha Womans University, College of Pharmacy, Seoul, South Korea

See-Won Seo, PharmD, BCACP, Assistant Professor
Albany College of Pharmacy and Health Sciences, Albany, NY

Hoai-An Truong, PharmD, MPH, FAPhA, FNAP, Professor
University of Maryland Eastern Shore School of Pharmacy and Health Professions,
Princess Anne, MD



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Moderator & Speakers

Moderator:

Nisreen Mourad, PharmD, MSc, Clinical Associate Professor and Chairperson of Pharmaceutical Sciences Department, Lebanese International University, Khyara, Lebanon

Speakers:

Sandy (Jeong Yeon) Rhie, PharmD, PhD, Professor
Ewha Womans University, College of Pharmacy, Seoul, South Korea

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Learning Objectives

- Identify the **benefits** of a global health education partnership on advancing pharmacy practice and education for each partner
- Conduct a **needs assessment** for curricular gap and faculty expertise
- Discuss the **opportunities and challenges** for developing a global education partnership





Impact and Value of Pharmacist Immunizers

Pharmacists are considered the most accessible healthcare professionals.



">90% of US residents live within 5 miles of a pharmacy."¹

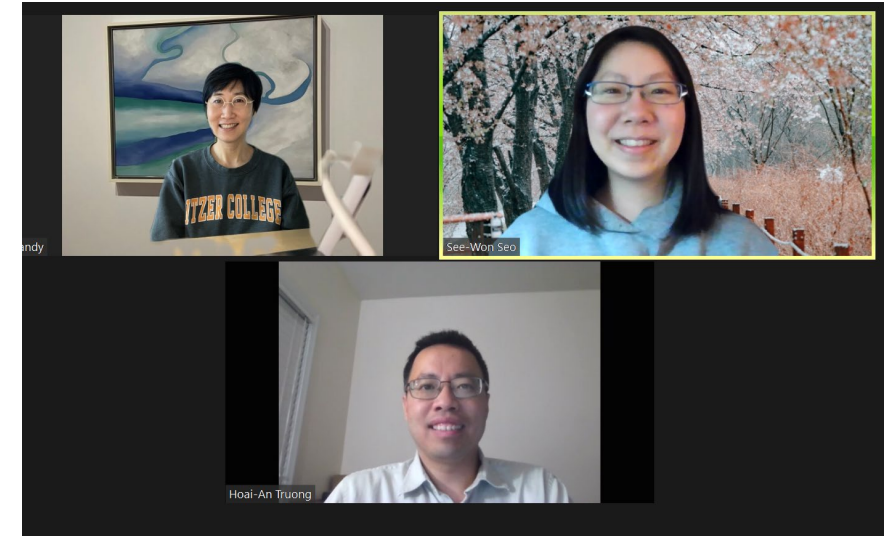


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1.NACDS. Infographic 2 adapted from: Bonner L. Pharmacy Today, 2017; Infographic 3 adapted from: Drozd EM. Clin Ther 2017;39(8)
Infographic 4 adapted from: Schwerzmann J. Disaster Med Public Health Prep 2017;11(5)

Benefits of a Global Partnership

- Exposure of students to new ideas
- Address need for curricular content
- Interchange of ideas
- Opportunities for collaborative research
- Challenges in scope of practice



Steps for Needs Assessment



- **Needs identification** - analyzes the current state and needs; prioritizes
- **Data collection & analysis** - gathers information to understand the gaps between now and desired future
- **Data application** - use findings to evaluate solutions and determine what is best
- **Evaluation** - assesses action plans and/or identifies weak point for improvement

Needs Assessment: Curricular Gap & Expertise

- When developing global partnership, it is important to conduct a needs assessment and identify topics of interest and/or important issues in pharmacy education for faculty and students in both countries.
- Faculty partners can plan for needs assessment by identifying course, faculty instructors, etc.
 - **Global Education** - unmet need with identified partnerships
 - **Pharmacy Education** - unmet need of curricular topic in partner countries
 - **Scope of Practice** - unmet need - authority for pharmacist-provided immunization
 - **Immunization Trainer** - unmet need - lack of faculty expertise to teach immunization
 - **Advocacy** - unmet need - pharmacist's ability to advocate

Needs Assessment: Curricular Gap & Expertise

In South Korea:

- No current law allowing pharmacists to immunize
 - No current billing and reimbursement for pharmacists to immunize
 - Immunization is a topic of curricular need in pharmacy education
 - There is a lack of pharmacist educator to teach immunization
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- Thus, global collaboration of pharmacy faculty of two schools in the U.S. and a faculty member in South Korea can address curricular gap and expertise need to advance pharmacy education and practice in South Korea

Teaching Experience & Partnership



Logistics

- Meetings to prepare in advance
- Time zone, daylight savings (4am ET on 5/27/21)
- Online conference call platform
- Lighting

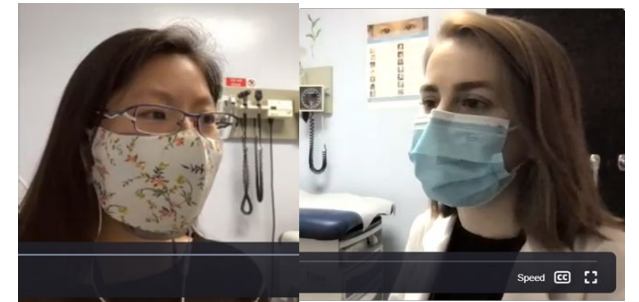
Tips and Lessons Learned

- Pace of presentation due to language
- Class culture and expected engagement level
- Varying familiarity with learning activities

Teaching Experience & Partnership



- Ewha Womans University's course for P3 students, "*Pharmaceutical Experiment Laboratory VI*"
- Online platform (Zoom) Pre-registration
- Duration ~75 min
- n= >100 pre-registered attendees
 - Mostly Ewha students, faculty, external students and faculty, pharmacists from the local pharmacists association in South Korea



Patient Counseling on COVID-19 Vaccines

67 years old female presents for COVID-19 vaccine clinic.

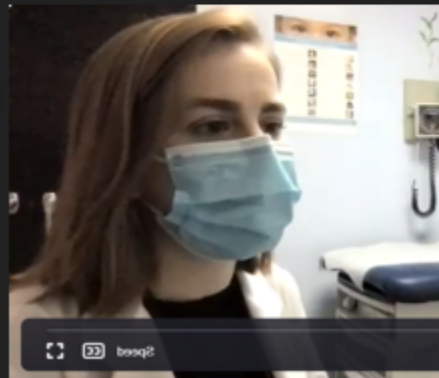
Allergies: eggs, latex, seasonal allergies, pet dander

Past Medical History: Hypertension, dyslipidemia, chronic obstructive pulmonary disease (COPD), rheumatoid arthritis, GERD

Social History: Retired school bus driver, lives with her husband; Denies drinking/illicit drugs, past smoker (1 PPD x25 years, quit at age 56)

Current medications:

- Lisinopril (Zestril) 20 mg; take 1 tablet by mouth once daily
- Hydrochlorothiazide (Microzide) 25 mg; take 1 tablet by mouth in the morning
- Rosuvastatin (Crestor) 10 mg; take 1 tablet by mouth once daily
- Albuterol HFA (ProAir HFA 90 mcg/actuation); take 2 inhalations every 4 to 6 hours as needed for exacerbation
- Salmeterol (Serevent Diskus) 50 mcg; take 1 inhalation twice daily
- Etanercept (Enbrel) 50 mg; inject 50 mg subcutaneously once weekly
- Methotrexate (Trexall) 20 mg; take 20 mg by mouth once weekly
- Folic acid (Folvite) 1 mg; take 1 tablet by mouth once daily
- Famotidine (Pepcid) 20 mg; take 1 tablet by mouth twice daily



Pharmacy student
counsels worried
patient (4.5 min)



Opportunities as Immunizers

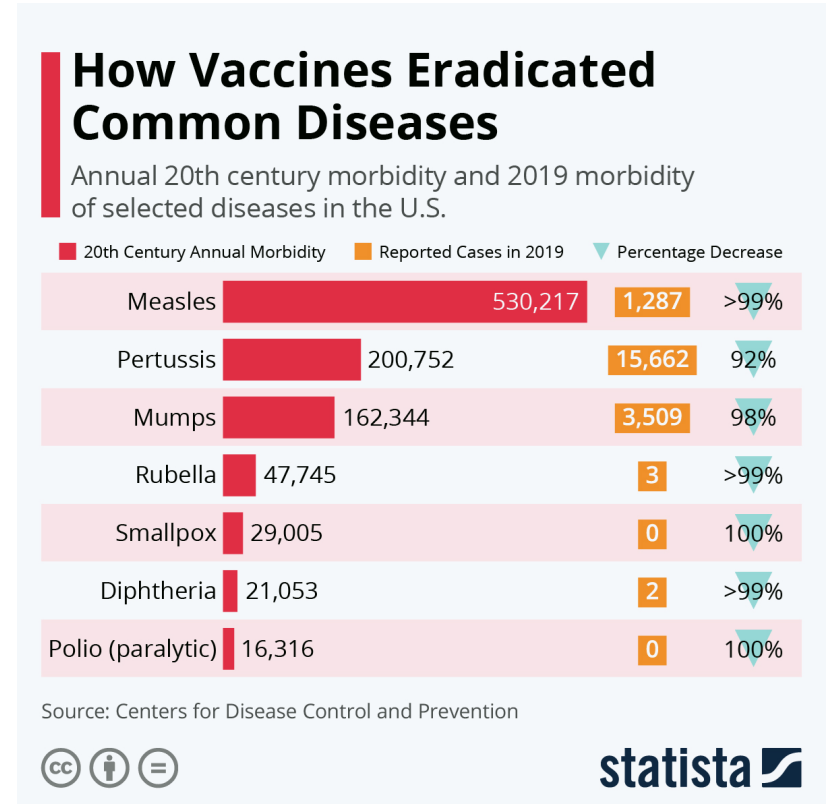


Vaccines are “the single most life-saving innovation ever in the history of medicine.”
-Mark Davis, PhD (Stanford immunologist)

- Aligned perspective among all partners on vaccination potential for public health
- Faculty champion from South Korea, who also completed American Pharmacists Association (APhA) Immunization Certificate program
- Partner certified as train-the-trainer in APhA Immunization Certificate program

Opportunities as Immunizers

- *Vaccines are “the single most life-saving innovation ever in the history of medicine” -Mark Davis, PhD (Stanford immunologist)*
- Strong history and advances in pharmacists and interns as immunizers in the US
- Partners from states in the US with varying levels of scope of practice
- Recent transition to PharmD education in South Korea (6-year)
- South Korea — current advocacy efforts are through professional organizations



Challenges in Developing a Global Education Partnership



Recognize differences

- School program & curriculum
- Social structure & professional culture
- Geographic/physical accessibility

Look at what I have

- Immunization training curriculum
- Pharmacist-vaccination program
- Legislative status
- Evidence of public benefit

Look at what they need

- No immunization training curriculum
- No pharmacist-vaccination program
- No legislative status
- No expectation on public benefit

Opportunities as Educators



to **Students**

- Willing to learn new knowledge
- Open to reflection on their roles and actions
- Need insight as future clinician
- Appreciate global pharmacy community



to **Faculty**

- Availability of new digital technology
- Collaboration potential (education and research)
- Satisfaction



Conducting a SWOT Analysis



Strengths

- Easy access to pharmacists by the public
- PharmD education
- Availability of pharmacy practitioners, faculty, students
- Innovative and entrepreneurial pharmacists
- Active pharmacy organizations

Weaknesses

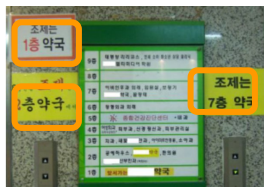
- **No current law allowing pharmacists to immunize in South Korea**
- **No current billing and reimbursement structure**
- Lack of data sharing infrastructure
- Workload and implementation concern
- No legislative advocacy training to change the law

Opportunities

- Need for pandemic response to vaccinate the community
- Preparedness for post-pandemic public health prevention
- Convenience for patients
- Advanced practice change
- Funding and revenue sources
- Pharmacist and student champions

Threats

- Low acceptance by other professions (scope of practice)
- Public perception (not familiar with the idea)
- Limited interest and interaction by legislators



Pharmacies on floors



Closely located



New and old look pharmacies

1. <http://m.pharm21.com/news/articleView.html?idxno=49034>
2. <https://www.yna.co.kr/view/AKR20100713115300017>
3. <https://m.blog.naver.com/skyg12/221296137587>
4. <https://holsee.tistory.com/483>

Conclusion

- Next Steps:
 - **Identify** pharmacist & student **champions** as immunizers in SK
 - Schedule immunization course for champions in SK
 - Consider sports pharmacy as **next topic** for reciprocal educational exchange
 - Advocate for **expansion** of pharmacists' global role through global education partnerships



sandy.rhie@ewha.ac.kr



see-won.seo@acphs.edu



htruong@umes.edu

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