

Programme Name

National Pharmacy Residency Programme in Infectious Diseases (PGY2)

Introduction / Purpose

This is a formalized, postgraduate residency programme to provide relevant and quality training to experienced and registered hospital pharmacists who are seeking to upgrade their knowledge and clinical skills in the area of infectious diseases (pharmacotherapy).

Programme Overview

- Objectives / Outcomes

National Pharmacy Residency Programme (PGY2) is a 12-month programme. It adopts the *ASHP International Accreditation Standard for Postgraduate Year Two (PGY2) Pharmacy Residencies in Infectious Diseases*.

The Seven Educational Outcomes that the resident will achieve at the end of the residency are as follows:

Outcome R1: Promote health improvement, wellness, and the prevention of infectious diseases.

Outcome R2: Optimize the outcomes of individuals with an infectious disease by providing evidence-based, patient-centered medication therapy as an integral member of an interdisciplinary team or as an independent clinician.

Outcome R3: Manage and improve anti-infective-use processes

Outcome R4: Demonstrate excellence in the provision of educational activities for health care professionals and health care professionals in training centering on optimizing anti-infective pharmacotherapy.

Outcome R5: Serve as an authoritative resource on the optimal use of medications used to treat individuals with an infectious disease.

Outcome R6: Demonstrate leadership and practice management skills.

Outcome R7: Conduct infectious diseases pharmacy practice research.

Programme Structure and Activities

The antimicrobial stewardship program (ASP) will form the backbone of the residency program where the resident will be expected to perform ASP functions on a daily basis when he/she is not rotated to the laboratory or external sites.

A large component of the teaching in this program will involve practical training and patient contact based on a variety of infectious disease conditions. Residents will develop their clinical knowledge and acumen through a variety of learning contexts such as discussion sessions, supervised and independent clinical practice and self-directed learning. They will also have the opportunity to practice clinical report writing and verbal reporting as well as develop basic ability in formulating research questions.

	Residency Activities	Duration
a.	<p>Orientation</p> <p>The new resident will be briefed on the purpose, applicable regulations, expected professional and practice standards. The preceptors will also orient the resident to their learning experiences and evaluation strategy employed in the program.</p> <p>External residents will need to undergo the General Level Framework competency assessment, learn the various SGH IT systems and develop a sound understanding of SGH's medication use process.</p>	1–2 weeks at the start of the residency
b.	<p>Ward Rounds</p> <ul style="list-style-type: none"> • Daily ASP rounds (mid-day meeting with ASP physician and pharmacists) • Speciality rounds with ID physician and ID pharmacist e.g. haematology/oncology, solid-organ transplant, critical care, vascular surgery • Weekly ID consult rounds with ID physician and ID pharmacist 	~ 42 weeks*
c.	<p>Ambulatory care clinic e.g. infectious diseases and travel clinic and OPAT</p> <ul style="list-style-type: none"> • Weekly infectious diseases clinic with infectious diseases physician • Travel clinic with infectious diseases physician and nurses 	16-24 weeks** 4 sessions**
d.	<p>Learning sessions</p> <p>Conducts and/or participates in continuing education sessions at least once every month with ID pharmacists &/or physicians covering infectious diseases topics as well as journal updates.</p>	48 weeks*
e.	<p>Informal Presentations / Discussions</p> <p>Residents will meet with preceptor responsible for that learning experience once or twice a week to discuss the cases managed by the resident and/or clinical infectious diseases topics.</p>	48 weeks*
f.	<p>Research Project</p> <p>The project will be undertaken by the resident as the Principal Investigator, with publication submission at the end of the Residency as the goal. In-house, local and/or international presentation is also expected.</p>	48 weeks*
g.	Teaching of fellow healthcare professionals and students	48 weeks*
h.	Anti-infective Research Laboratory Attachment	2 weeks**
i.	Microbiology Laboratory Attachment	2 weeks**

* Longitudinal

** Stand alone component

Delivery Methods

- Clinical review / rounds / specialist clinics
- Case-based Teaching and Discussion
- Oral presentation
- Teaching and Education
- Personal and Professional Development
- Research

Evaluation

- Formative assessment of each learning experience
 - o Snapshots and sample review of resident's clinical documentation in all medical records
 - o Ongoing / adhoc discussions
 - o Weekly clinical / topical discussion sessions
 - o Regular presentations
 - o Quarterly evaluations
- Summative assessment of each learning experience
- Other Summative components include:
 - o Research Project
 - o MCQ Examination
 - o Viva

Exit Requirements

All Residents are required to complete the 12-month programme according to the PSAB-accredited curriculum.

- a. Meet all PGY2 Residency requirements including making sufficient progress towards all the required goals and objectives as evidenced by either satisfactory progress or achieved being marked for all goals.
- b. Satisfactory completion of all learning experiences as evidenced by all required work assigned being completed to the satisfaction of preceptors.
- c. Completion of residency major project with a manuscript that is approved by the project supervisor and APD/RPD.
- d. Pass all examinations. (MCQ Examination, Viva and Research Project)
- e. Compliance with institutional and departmental policies.

Training Site

Primarily in the Pharmacy Department, Singapore General Hospital, with attachment rotations to Tan Tock Seng Hospital (CDC) and CGH where available.