

ASPICON 2026 OPAT Workshop Proposal

Title: OPAT as a Low-Hanging Fruit: Decanting Hospitals & Preventing HAIs

Description

Outpatient parenteral antimicrobial therapy (OPAT), often delivered via hospital-in-the-home [HITH] services, is the management of infections outside the hospital setting in the community or at home by administration of more than one dose of parenteral antimicrobials on different days. It is a safe and cost-effective alternative that reduces hospital stay, minimizes nosocomial infections, and optimizes healthcare resources. This workshop translates pioneering work from AIIMS Rishikesh into actionable strategies for Indian tertiary care settings. Participants will engage in simulations and hands-on training focusing on patient safety, antimicrobial stewardship, and implementation of OPAT programs in resource-constrained settings.

Workshop Structure with Bloom's Taxonomy and Outcomes

SessionTitle	Format	Bloom's	KeyActivities	LearningOutcomes	Expected duration
1. Clinical Core: Safety, Efficacy & Patient Selection	Expert talk + interactive discussion	Remember→ Understand	OPAT concept, AIIMS study, OUTPATIENT model	Analyze safety & apply selection criteria	30min
2. Operationalizing OPAT ("Home Ward")	Hands-on + demonstration	Understand→Apply	Line care, infusion techniques, caregiver training	Demonstrate procedural skills	75min
Tea break (15min)					
3. Case-Based Simulation	Group work + role-play	Apply→Analyze	OUTPATIENT checklist use	Analyze patient suitability	75min
Lunch break (60min)					

4. Program Implementation in own setting	Interactive session	Analyze→Create	Stepwise OPAT setup	Develop implementation plan	30min
5. Barriers & Facilitators	Discussion + activity	Analyze→Evaluate	Discuss challenges faced, and the catalysts	Evaluate feasibility	75min
Tea break (15min)					
6. Economics	Discussion	Analyze	Tele-OPAT and cost analysis	Evaluate cost effectiveness and way forward	15min
7. Protocol Development	Team-based activity	Create	Draft OPAT protocol for own setting	Create pilot protocol	60min

OUTPATIENT Model

O – OPAT selection

U – Urgent red flags identification

T – Tools & equipment

P – PK/PD stewardship

A – Attendant (caregiver) training

T – Tele-monitoring

I – Infection prevention and control practices

E – Emergency backup plan

N – Norms & ethics

T – Treatment sustainability

Detailed Session Breakdown

Session 1: Clinical Core – Safety, Efficacy & Patient Selection

Format: Expert talk + interactive discussion

Bloom's Level: Understand → Analyze

Learning Objectives/Outcomes:

1. Analyze safety and efficacy of OPAT
2. Apply the OUTPATIENT 10-point model for patient selection
3. Identify suitable candidates for home-based IV therapy

Session 2: Operationalizing the “Home Ward”

Format: Hands-on training + demonstration

Bloom’s Level: Apply → Demonstrate

Learning Objectives/Outcomes:

1. Demonstrate vascular access care (PICC/midline)
2. Perform aseptic infusion techniques
3. Train caregivers for OPAT delivery
4. Monitor patients using Tele-OPAT logs

Session 3: Case-Based Simulation – “Vetting the Candidate”

Format: Group work + role-play

Bloom’s Level: Apply → Analyze

Learning Objectives/Outcomes:

1. Apply OUTPATIENT checklist in real scenarios
2. Identify red flags and exclusion criteria
3. Decide suitability for OPAT

Session 4: Program Implementation

Format: Interactive session

Bloom’s Level: Apply → Evaluate

Learning Outcomes:

1. Develop stepwise OPAT setup strategy

2. Implement consent, antibiotic delivery, and monitoring systems

Session 5: Barriers and Facilitators

Format: Interactive discussion + Fishbone diagram

Bloom's Level: Analyze → Evaluate

Learning Objectives/Outcomes:

1. Identify barriers in Indian context
2. Evaluate the advantages and facilitators

Session 6: Cost analysis & effectiveness (economical aspect of OPAT)

Format: Interactive Discussion

Bloom's Level: Analyze → Evaluate

Learning Objectives / Outcomes

1. Analyze cost components of OPAT vs inpatient care in the Indian context
2. Evaluate cost-effectiveness and economic benefits of OPAT
3. Identify key drivers of cost savings and hidden expenditures
4. Assess real-world feasibility in low-resource settings
5. Tele -OPAT

Session 7: PROTOCOL DEVELOPMENT

Format: Team-based activity

Bloom's Level: Create

Outcomes:

1. Develop a department-specific OPAT protocol
2. Plan a 5-patient pilot implementation

Expected Outcomes

1. Reduced hospital stay and nosocomial infections

2. Improved antimicrobial stewardship
3. Feasible OPAT implementation models
4. Ready-to-use departmental protocols

AIIMS Rishikesh Team Members

Dr. Prasan Kumar Panda

Dr. Bhupinder Solanki

Dr. Amit Kumar

Dr. Pradip Raut

Dr. Gagan Harnathka

Mr. Dharmendra Jadaun (AMSP Nursing Officer)

Participant Assessment Plan (Pre–Post Evaluation)

Pre-Assessment:

1. Knowledge of OPAT principles
2. Understanding of patient selection

Post-Assessment:

1. Ability to apply OUTPATIENT model
2. Design of OPAT implementation protocol in own setting

