### TRAMM Tool (Medication Adherence) Pocket Guide

A quick and easy reference to the Transplant Recipient Adherence Monitoring and Management (TRAMM) Tool for transplant professionals to use within their post-transplant clinical practice

## Medication Adherence

## **MONITORING**

- Refer to these key steps to help define your process for medication adherence monitoring
- Individualize to fit your practice model
- Refer to the TRAMM tool for additional details (scan QR code)



### 1. Select monitoring **STRATEGY**

2. Select patient **POPULATION** 

- Proactive: monitoring occurs as part of the standard of care follow up
- Reactive: monitoring occurs once adherence issue is identified
- Hybrid: monitoring combines mix of proactive and reactive strategies
- All: monitoring occurs for every recipient
- Subset: monitoring occurs for a specific recipient group(s) (i.e. those with risk factors or identified medication non-adherence)

### 3. Select monitoring TOOL(s)

**Self Report**: questions directly investigate medication adherence or other variables via patient response

Scan the QR codes for links to validated self-report questions

**BAASIS** 



ITAS





Immunosuppressant Levels: adherence is defined according to drug level measured and quantification method Examples

Intrapatient variability (IPV)

range (TTR)

- Fluctuation in drug concentrations (e.g., tacrolimus trough) within an individual over a
- Usually calculated via standard deviation (SD) or coefficient of variation (CV)
  - SD: measures extent of deviation amongst a group of drug levels
  - CV: calculated as SD/sample mean x 100
- Undetectable Drug levels (e.g., tacrolimus) that are too low to be trough levels detected by laboratory tests Time in therapeutic
  - Percentage of time the patient's drug level (e.g., tacrolimus) was within the target range

of time patient had enough medication to take as prescribed MDD (modication possession ratio)

**Medication Refill Records**: review of refill history to estimate percent

inita (ilieulcation possession fatio)		PDC (proportion of days covered)	
Calculation	Bays supply for all fills in period # of days in period x 100%	# of days covered during period # of days in period x 100	
Considerations	Often overestimates     adherence     More likely to be affected     by early refills	Addresses stockpiling and early refills by moving forward additional supply to the next period     Better equipped to accurately estimate adherence when considering all drugs in a regimen together	

### **Visit Completion Frequency:**

- Compare ACTUAL to EXPECTED number of visits completed within a defined time period
- Quantify the number of no-show visits
- The number of visits can be calculated separately (i.e. lab or appointment visits) or combined (i.e., lab plus appointment visits)

Pill Count: objective measure to count the actual number of dosage units (e.g., pill, tablet) at a specified time point

# of dosage units dispensed - # of dosage units remained

Prescribed # of dosage units per day x # of days between 2 timepoints x 100

- 4. Select FREQUENCY and define process for DOCUMENTATION
- All: at every time point or patient interaction (i.e., every clinic visit)
- Subset: only at specific timepoints (i.e., every 6 month visit (clinic or virtual))

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**Effects** 

# Medication Adherence MANAGEMENT

- Refer to these key steps to help define a patient specific adherence management plan
- Individualize to fit your practice model
- Refer to the TRAMM tool for additional details (scan QR code)



### 1. Identify CAUSE(S) of non-adherence

- Use motivational interviewing
- Practice active listening
- Identify potential barriers

Issues

#### Barriers to adherence

Cognitive	Forgetfulness	Language	Low Health
Impairment		Barriers	Literacy
Age	Insurance	Visual	Side

Impairment

Utilize strategies aimed to address identified barriers

### **Barrier-specific strategies**

Cognitive impairment, forgetfulness, daily routine interruption	Involve family and adequate support for medication management.  Consider a simplified regimen (e.g., once-daily dosing, monotherapy). Encourage counseling/behavioral intervention (e.g. reminders, alarms, use of pillbox, motivational interview)
Language barriers	Ensure teaching tools in native language. Use teach back method. Use an interpreter service. Establish effective communication plans for longitudinal care.
Low health	Involve family and adequate support for medication management.
literacy	Use a pillbox with visual aid (e.g., numbering system)
Age	Consider different learning strategies for pediatrics versus adults. Identify vulnerable populations (e.g., transition to adult, elderly). Peer group mentorship or support groups may be helpful, especially for pediatric populations
Visual	Consider > 16 font print on prescription labels, braille labels, blister
Impairment	cards

2. Select TOOL(s) aimed to improve medication adherence most appropriate for patient/situation

- Patient education
- Medications simplify/organize regimens
- Technology
- Self-action plan
- Family/caregiver involvement

### 3. Include MULTIDISCIPLINARY TEAM(s) in management based on identified causes

- Transplant team (e.g., pharmacist, social worker, financial counselor, physicians, advanced practice providers, nurses, psychologists, dieticians)
- Medical teams (e.g., cardiology, endocrinology, primary care)
- Other (e.g., pharmacy technician, home health aide)

# 4. Involve PATIENT to establish a management plan

- Schedule frequent patient meetings (e.g., inperson, telephone or video visit)
- Shared decision making is key

### 5. Establish FOLLOW-UP

- Define frequency of follow-up / adherence assessments
- Develop process to ensure management plan and follow up is documented and shared with patient and involved teams