

Establishing a Pharmacist-led CMV Stewardship Program to Reduce Hospital Admissions, Length of Stay, and CMV Resistance

EHR Modifications

This workflow has been adapted from University of Wisconsin who has successfully implemented a CMV Stewardship Initiative through Epic.¹

1. Utilize Phoenix within Apex to create an Episode of Care Encounter to enroll patients in the CMV stewardship clinic. The CMV stewardship clinic will be divided into 4 different subgroups: lung transplant, heart transplant, kidney transplant, and liver transplant. Each subgroup will be managed by the respective pharmacist covering that organ group as there are subtle differences in protocols for CMV management (i.e. duration of prophylaxis).
2. Work with informatics to generate a report that can be run daily within Apex to facilitate pharmacists with daily monitoring of enrolled patients.
3. Daily report to include: MRN, patient name, DOB, last outreach, next scheduled outreach, CMV serostatus, name of CMV antiviral ordered, current dose of antiviral, creatinine clearance, a flag for change in CrCl or Scr by 25%, CMV PCR and date, white blood cell count and date.
4. Create an Apex inbasket alert to respective pharmacist pool in basket if positive CMV VL above the limit of quantification is detected (i.e. LUNG TR PHARMD for lung transplant) to ensure patient is being monitored within the CMV stewardship program and enroll patient if it is a new detectable VL.
5. Within the Episode of Care Encounter, pharmacists will be able to write a brief note with assessment and medication dose changes. DOT phrases can be utilized to facilitate consistent and efficient documentation. Medication dose changes will be sent to the patient via MyChart as well as their nurse coordinator for follow up (something that is already a current standard of practice during lab review) utilizing DOT phrase .TXPCOORD.
6. Pharmacist to assign follow up in Episode of Care based on timing of next scheduled CMV VL or serum creatinine assessment. Pharmacist may also schedule follow up if an expected lab has not resulted or if the lab is resulting from a facility that does not integrate with Apex.