

Abstract  
INCREASING ADHERENCE TO ORAL TACROLIMUS USING A MEDICATION REPORTING  
INTERVENTION

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## Abstract

**Introduction:** Medication non-adherence can be detrimental for persons who undergo Allogeneic Stem Cell Transplant (allo-SCT). The purpose of this Quality Improvement (QI) project was to increase oral tacrolimus medication adherence by implementing a medication reporting or journaling intervention.

**Methods:** Project included pre-post historical comparison design for tacrolimus level data analysis and pre-post within intervention group design for all other outcomes and analyses. This QI project was implemented over 8-weeks, in an outpatient setting among persons who were between 15- and 90-days status post allo-SCT. Project intervention consisted of using the Electronic Health Record (EHR) medication grid for medication reporting or journaling for participants to document the date and time that each tacrolimus dose was taken.

**Results:** Findings related to the use of the EHR medication grid for medication reporting showed high adherence and high patient satisfaction rates indicating that intervention was well received by participants. However, tacrolimus medication adherence and general patient satisfaction rates pre and post-intervention showed no significant improvement.

**Conclusion:** This QI project is among the first of its kind using an EHR medication grid for medication reporting or journaling; this low technological and low-cost intervention, is easily replicated and causes minimal changes to workflow. Findings highlight that persons undergoing allo-SCT want to adhere to immunosuppressive regimens and are looking to us for an easy tool that they can use and easily integrate into their everyday lives.

**Implication:** The grid was easy to integrate into care, participants used the grid and overall, they were satisfied with it. Future implications include expanding use of EHR medication grid use among all persons who undergo all-SCT. Findings from this project and existing data support using a multimodal approach of reminder, education, and addressing barriers to education

**Keywords:** Medication adherence, tacrolimus, medication journaling, medication reporting, allogeneic stem cell transplant