

KidneyX: Redesign Dialysis Phase I Proposal

Title of Submission: “Information Technology Platform for Expanded Comprehensive End-Stage Renal Disease Care”

Abstract:

We are proposing an information technology (IT) platform permits data informing pertinent quality metrics to be gathered, collated and tracked for all end-users. The most recent iteration of Centers for Medicare and Medicaid Services (CMS) Conditions for Coverage includes a transplant-based metric applicable to dialysis facilities, the Percentage of Prevalent Patients Waitlisted (PPPW). The IT platform will allow facilities to track their PPPW rates in real time. In addition to the PPPW, the IT platform will offer a novel tool dialysis facility can use to design and implement quality improvement projects around all steps of transplantation. Transplant centers can also make use of the IT platform to inform quality improvement projects around waitlist criteria and waitlist management. Nephrology practices can make use of the IT platform to actualize population-health level tracking the transplant education, referral, evaluation and listing of prevalent patients with advanced chronic kidney disease (CKD) and/or end-stage renal disease (ESRD).

Technical Requirements:

1. Active on the federally certified Health IT product list.
2. Linked to a patient record with unique patient identifier (UPI).
3. Facilitates instant and bi-directional communication capabilities among the patients, payers, providers, and other Health IT systems:
 - a. Videos/Pictures/Files/Medical Imaging
 - b. Recorded audio and video calls
 - c. Text messaging
 - d. Customizable Notifications
 - e. Delivered/Read receipts
 - f. Acknowledgment emojis
 - g. Patient record data fields (e.g. Seven Steps to Transplant, Labs, order entry, test results, evaluation results)

This proposal includes organ transplant with metrics and IT infrastructure/platform to support the communication and coordination of the patients and providers in the network. The OmniLife platform provides the infrastructure supporting all technical requirements above, including an upcoming interface with BlueButton 2.0. OmniLife leverages existing IT systems partnerships to accelerate implementation throughout the provider network. Existing centers and dialysis units are already customers of OmniLife can be implemented relatively quickly. **Aim 1:** implement the IT platform among an ESRD care provider network. **Aim 2:** reduce the cost of care for the patient population through better coordination of patients among treatment providers.

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