



# The HiLo Trial

Myles Wolf, MD, MMSc





# **Overview of study design: An 'A' vs. 'B' trial in dialysis**

Pragmatic, multicenter, cluster-randomized, open-label, superiority, outcomes trial

- Compare effects of two different phosphate management strategies
  - Liberal P control, targeting 6–7 mg/dl, or
  - Strict P control, targeting <5.0 mg/dl
  - Individual-level randomization
  - N = ~4000 patients being treated with hemodialysis at >100 facilities
- Partners
  - 1. Large national for-profit dialysis corporation: DaVita, Inc.



Dialysis Clinic, Inc. A Non-Profit Corporation

DaVita.





### **Outcomes**

#### 1. Primary

 Composite of all-cause mortality and all-cause hospitalization: total counts per personyears of follow-up (continuous)

#### 2. Secondary

- All-cause mortality, time-to-event
- Total inpatient hospital days per person-years of follow-up
- Cause-specific hospitalizations in Medicare beneficiaries based on merging clinical data from HiLo with claims data from the CMS Virtual Research Data Center as in PROVEN
- Diet & nutrition: serum albumin, protein catabolic rate (PCR)
- Patient-reported outcomes (PROs) related to gastrointestinal symptoms





### **Current Status**

- 1. 31 dialysis units activated under individual randomization design since February, 2022.
- 2. 140 participants enrolled in the study (40% consent rate)
- 3. Currently activating the Woodlands and Voyager divisions (northeastern US).
- 4. Additional 6 divisions in the queue for activation
- 5. Implementing dietitian champions to support efficient activation and enrollment
- 6. Providing dietitians rewards for reaching study milestones

# **Barriers Scorecard**

Barrier	Level of Difficulty*				
	1	2	3	4	5
Enrollment and engagement of patients/subjects			X		
Engagement of clinicians and health systems			X		
Data collection and merging datasets		X			
Regulatory issues (IRBs and consent)	Х				
Stability of control intervention		X			
Implementing/delivering intervention across healthcare organizations		Х			

\*Your best guess! 1 = little difficulty 5 = extreme difficulty







### **Top Challenges**

- 1. Dietitian availability to perform activation and enrollment activities
- 2. Medical director and/or rounding nephrologist adoption of the protocol





### **Recent Generalizable Lesson Learned**

1. Patient care is team-centric. Need to ensure all staff members and medical providers are informed about the study





# **Current Data Sharing Plan & Obstacles**

- 1. NIDDK Repository private archive managed by the NIDDK
- 2. Patient level: de-identified
- 3. Facility level: de-identified
- 4. Provider level: de-identified





## **Data We're Planning to Share**

- 1. Trial data
- 2. De-identified data set for all eligible patients in cluster-randomized sites (will be receiving soon)



Duke Nephrology

# **Questions & Comments**