KDIGO Controversies Conference: Iron Management in CKD

What is the ideal iron and ESA balance in CKD anemia management?
Disclosures (5+ years)

- Board of Directors Satellite Healthcare
- Equal opportunity dialyzer
- Research funding or advisory role in CKD anemia
  - Amgen
  - Keryx
  - Rockwell
50 years ago
Bob Dylan 1964

- Come gather 'round people
  Wherever you roam
  And admit that the waters
  Around you have grown
  And accept it that soon
  You'll be drenched to the bone.
  If your time to you
  Is worth savin'
  Then you better start swimmin'
  Or you'll sink like a stone
  For the times they are a-changin'.
Mean monthly Hgb (HD)

USRDS Annual Data Report 2013
Hemoglobin & EPO dose

Hemoglobin

EPO

Mean monthly EPO dose (1,000 units)
ESA in Advanced CKD

Winkelmayer et al. JAMA Intern Med 2014
Iron in Advanced CKD

Winkelmayer et al. JAMA Intern Med 2014
Hemoglobin in Advanced CKD

Winkelmayer et al. JAMA Intern Med 2014
Transfusion in Advanced CKD

Winkelmayer et al. JAMA Intern Med 2014
Where are we now?

• Accepting lower hemoglobin concentrations in the months/years before and while receiving dialysis
• Utilizing less and lower dose ESAs in the months/years before and while receiving dialysis
• Utilizing considerably more IV iron in the hemodialysis population than pre-bundle
• Accepting much higher ferritin concentrations
• Patients = canaries in the coal mine
50 years later

- Hemoglobin is droppin’, transfusions abound. There’s no EPO delivered, few doses around. But the iron’s a plenty, no matter the vial. Ferritin, TSAT, there’s never a trial!
- If the dollars to you are worth savin’
- Your patient’s emittin’ a magnetic field, for the times, they are a changin’