V NYU RORY MEYERS COLLEGE OF NURSING

Background

 Hemodialysis diet is a complex regimen
 Geared to achieve adequate energy (caloric) and protein intake, while minimizing excess fluid, sodium, potassium and phosphorus
 Hypervolemia associated with excessive sodium intake results in increased need for more intense fluid removal during hemodialysis
 This fluid removal and subsequent fluid and electrolyte shifts lead to an increased prevalence of hemodialysis related symptoms
 Despite this fact, non-adherence to dietary recommendations is well documented¹⁻⁴

 Little data exists, however, to describe barriers to maintaining dietary restrictions in vulnerable US hemodialysis patients

> In particular insights into barriers experienced by African Americans are needed

Purpose

Therefore, we sought to explore barriers experienced by North American minority and nonminority hemodialysis patients in a Northeastern metropolitan area when attempting to follow the hemodialysis dietary restrictions.

References

¹Kugler, C., Maeding, I., & Russell, C. L. (2011). Non-adherence in patients on chronic hemodialysis: an international con ²Kara, B., Caglar, K., & Kilic S. (2007). Nonadherence with diet and fluid restrictions and perceived social support in patie 3Kugler, C., Vlaminck, H., Haverich, A., & Maes, B. (2005). Nonadherence with diet and fluid restrictions among adults f ⁴Denhaerynck, K., Manhaeve, D., Dobbels, F., Garzoni, D., Nolte, C., & De Geest, S. (2007). Prevalence and consequence 235.

⁵Saran, R., Bragg-Gresham, J. L., Rayner, H. C., Goodkin, D. A., Keen, M. L., Van Dijk, P. C., Kurokawa, K., Piera, L., Saito, A Nonadherence in hemodialysis: Associations with mortality, hospitalization, and practice patterns in the DOPPS. Kidney

Acknowledgements

This study was supported through grants from NIH-R01-NR010135, NIH-K24-NR012226 received by Mary Ann Sevick, and 1F31NR013410 received by Maya N. Clark-Cutaia. I would like to acknowledge the individual contributions of: Lin Hough, MPH, Ann Steenkiste, MS; Susan Stark, RD, MS, Beth Hall, RD, and Tienna Luster.

We conducted digitally recorded, semi-structured, telephone interviews with 30 hemodialysis patients.

Purposive
 (NR01013
 Inclusion Crite

✤ ≥ 18 year

- Receiving
- least 3 m

Exclusion Crite

- Inability
- Plan to m
- dialysis e
- Terminal
- 12 mont
- Residence
- Institutio
- Inability
 - accessor
 - interven

Perceived Barriers to Adherence to Hemodialysis Dietary Recommendations

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Methods

Participants

ve sample from parent R01 L35) zeria:
rs of age
g maintenance hemodialysis for at nonths teria:
to read, write or speak English
nove out of the area or change enters
l illness or life expectancy less than
hs
ce with another study participant
onalization or incarceration
to see or use hand-held device and
ries required for parent R01
tion
mparison study. <i>J Nephrol.,</i> 24(3), 366-75. ients receiving hemodialysis. <i>J Nurs Scholarsh.,</i> 39(3), 243-8. having hemodialysis. <i>J Nurs Scholarsh.,</i> 37(1), 25-9. es of nonadherence to hemodialysis regimens. <i>AJCC</i> , 16(3), 222-
A., Fukuhara, S., Young, E. W., Held, P. J., & Port, F. K. (2003). y International, 64, 254–262.

Variable	n (%)
Race Caucasian African American	16 (53 14 (47
Age <65 Years ≥65 Years	14 (47 16 (53
Gender Male Female	19 (63 11 (37
Martial Status Single Married or Coupled	20 (67 10 (33
Income Adequacy Income Adequate Income Inadequate Other	12 (40 15 (50 3 (10
Education High School > High School	20 (67 10 (33
Employment Status Employed Unemployed	5 (17 25 (83
History of CVD	18 (60
Variable	Mean
Mean Age, Years	63.2 (2
Dialysis Vintage (months)	45.7 (4

	Results
	 Interview duration was approximately 20 minutes (mean 13.7, range 8 to 34 minutes) Themes identified by study participants included barriers associated with: Time and Convenience Financial Constraints Experience of Routine Dietary Counseling
3) .7)	
.7) 3)	
53) 57)	"If you don't eat before you get up and get out,
57) 53)	and then you're hungry when you get out, and there really isn't a place where you can get sor regular food. You might go to McDonald's and that fast food really isn't good for you."
-0) -0) 0)	
57) 3)	"We live on SSB [social security benefits], and combined, after we pay utilities and everything, i hurts. We are down to \$200 in the bank, and that ain't crap to have, you know what I mean?"
7) 3)	
i0) n (SD)	
(13.3)	
(42.7)	

"Try to specialize with certain people. I know there are those who are really sickly and need to follow [the hemodialysis diet] to the "t" because they have other systemic problems. But try to tailor it a little more for that person."

Limitations

- All hemodialysis centers were in one geographical area
- Sample predominately male, unemployed, and African American or Caucasian
- Little variation within or between groups
- Statements not cross-referenced with actual dietary sodium intake
- Participants had extensive hemodialysis experience

Conclusions

- Cost and time limitations were identified by ESRD patients as important barriers to dietary adherence.
- Participants satisfied with dietary counseling efforts made, but perceived difficulty individualizing recommendations and desired greater customization
- Results can potentially inform interventions
 geared to reduce impact of identified barriers