NEPHROLOGY ADVANCED PRACTITIONER SALARY SURVEY

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No financial interests or conflicts of interest to disclose

Background

- CKD and ESRD are on the rise in the United states¹
- The number of medical graduates entering nephrology residencies is declining²
- 43% of US nephrology residency programs don't fill all spots in 2014³
- Nephrology APs work across practice settings
- Reimbursement systems unique to nephrology obscure AP revenue generation
- Traditional measures of productivity don't accurately represent AP contribution





Salary Survey Objectives

- Provide data APs can use to negotiate salary and benefits
- Define AP contribution to nephrology practice
- Productivity, revenue generation, scope of practice
- Identify predictors of salary variation
- Provider characteristics, practice setting, job scope
- Compare nephrology AP salaries to national AP salary averages
- Develop benchmark practice-setting specific standards of productivity
- Understand AP expectations of patient volume
- Assess congruence between actual and expected practice volume across practice settings
- Determine whether nephrology APs are over/underutilized in clinical practice relative to reported range of reasonable patient volume

Methods



- Original survey developed by Kim Zuber PA-C
- Survey has been administered three times previously over the last six years
- Abbreviated survey developed with guidance from Dr. Susan Chapman, an academic researcher experienced in survey development, administration and analysis
- IRB approval obtained from University of California San Francisco
- Survey was reviewed by a panel of nephrology APs for face and content validity
- Data collected using Qualtrics survey tool
- Distributed to Nephrology Advanced Practitioners via professional association listservs
- PAs, Nurse Practitioners, Clinical Nurse Specialists

Methods

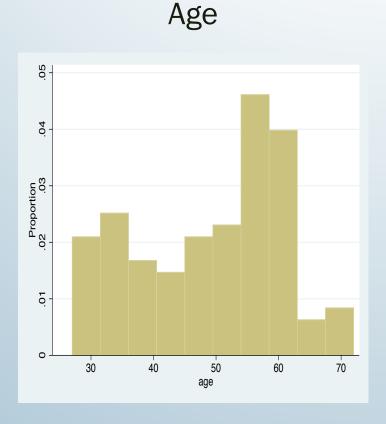
- Survey questions allow for free text to capture responses outside of anticipated parameters
- Content included the following domains
- Demographics
- Productivity/workload (actual and high/low estimate of reasonable patient volume across practice settings)
- Scope of practice
- Compensation (wage and benefits)
- Statistical analysis performed with STATA

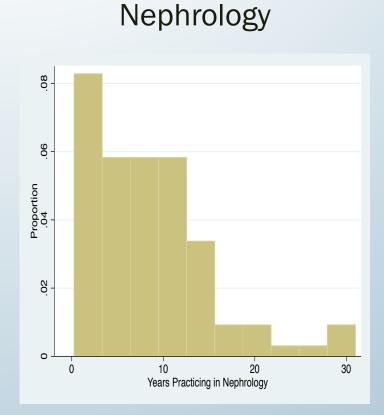
Results

- 107 responses, 13 with partial missing data
- Average time for survey completion 10.1 minutes
- 89% of respondents are female
- 79% of respondents are Nurse Practitioners, 21% are PAs
- 1 CNS respondent, grouped with NPs for analysis
- 84% of respondents are non-Hispanic white
- Mean age of respondents is 48

Respondent Characteristics



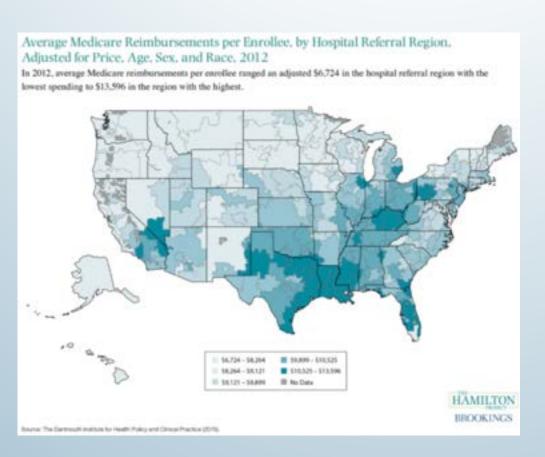




ANOVA Table of Salary Means by Characteristics of Provider and Practice Setting

	Salary mean (SE)	Salary mean (SE)	Salary mean (SE)	F (p)
Gender	Female <i>n=96</i> 103,363 (2288)	Male <i>n</i> =11 100,218 (6079)		0.21 (.65)
Race	Non-Hisp White <i>n=90</i> 103,540 (2084)	Minority <i>n=17</i> 99,454 (9009)		0.39 (.5)
Provider Type	NP <i>n=78</i> 103,546 (2581)	PA <i>n=27</i> 104,777 (3788)		0.06 (.8)
Age	Up to 35 <i>n=22</i> 100,317 (5482)	35-50 <i>n=28</i> 104,871 (3947)	>50 <i>n=56</i> 102,230 (2790)	0.29 (.74)
Years in Nephrology	0-5 <i>n=43</i> 100.939 (3856)	6-10 <i>n=32</i> 103,578 (4451)	>10 <i>n=31</i> 105,416 (2238)	0.39 (.67)
HRR Cost Quintile	Low <i>n=32</i> 98,955(3759)	High <i>n=31</i> 103,525 (4001)		1.07 (.31)
Practice Size	Small (1-5) n=18 106,456 (5889)	Med (6-12) <i>n=31</i> 101,897 (3757)	Large (>12) <i>n=21</i> 98,574 (4112)	0.65 (.5)

Dartmouth Atlas Hospital Referral Regions



- Correlation
 between AP salary
 and regional
 medical spending
- Dartmouth Atlas hospital referral region (HRR) used to define spending quintiles

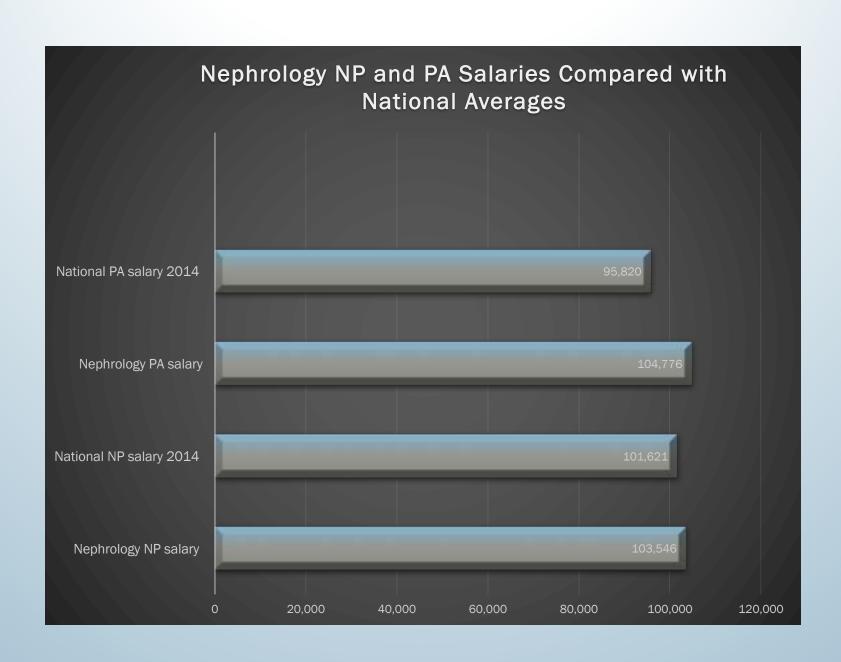
Multivariable Regression Analysis of Salary Predictors

Characteristic (Reference Group)	Salary N=98 β coefficient (p value)	Benefits n=94 β coefficient (p value)	Salary and Benefits n=94 β coefficient (p value)
	Provid	er Characteristics	
Gender (Female)	2115 (.78)	-680 (.86)	1436 (.88)
Age	-120 (.54)	-26 (.78)	-147 (.54)
Race (White)	-5097 (.4)	-5898 (.05)*	-10,993 (.14)
Provider Type (Physician Assistant)	112 (.98)	2185 (.43)	2297 (.74)
Years in Nephrology	376 (.28)	204 (.24)	581 (.18)
F, R-squared	.48, .027	1.23, .065	.95, .051
	Pro	actice Setting	•
Practice Size	-463 (.14)	32 (.79)	-431 (.24)
Medicare Spending, HRR quintile	1315 (.43)	625 (.34)	1941 (.33)
F, R-squared	1.42, .043	0.51, .602	1.18, .034
		Job Scope	-
Hemodialysis Unit	-10,535 (.11)	-624 (.83)	-11158 (.15)
On-Call	-6241 (.17)	-709 (.74)	-6951 (.2)
HDU Comprehensive Visits	-900 (.84)	1764 (.4)	864 (.87)
Office	2488 (.17)	2888 (.16)	5377 (.3)
Peritoneal Dialysis Unit	2628 (.54)	1079 (.59)	3707 (.47)
Hospital	4699 (.27)	5193 (.01)*	9893 (.05)*
Administration	6005 (.16)	4779 (.02)*	10,784 (.04)*
F, R-squared	1.78, .121	2.62, .169	2.59, .167

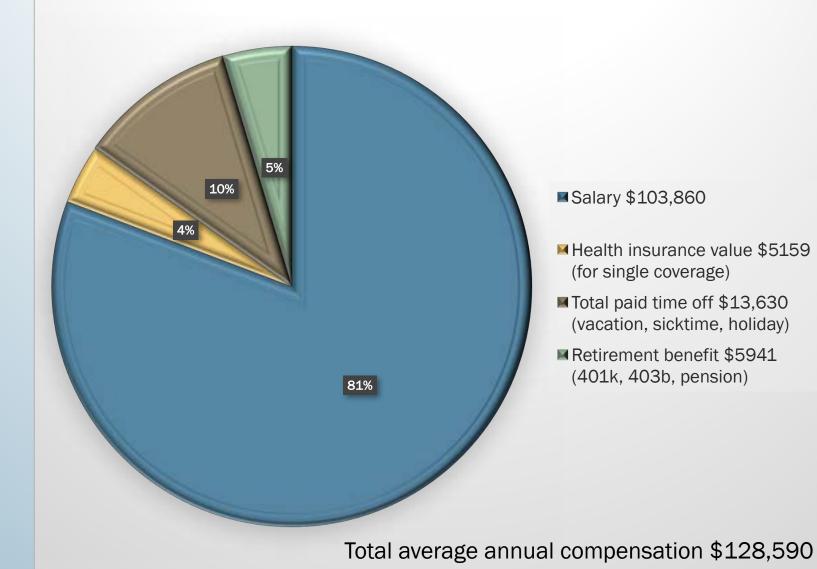
Additional Practice Settings Reported

- Research (n=5)
- 3 providers report participating in non-academic research
- Post-acute Rehab (n=2)
- Free clinic (n=1)
- Transplant (n=1)
- Tele-health (n=1)
- Occupational health (n=1)

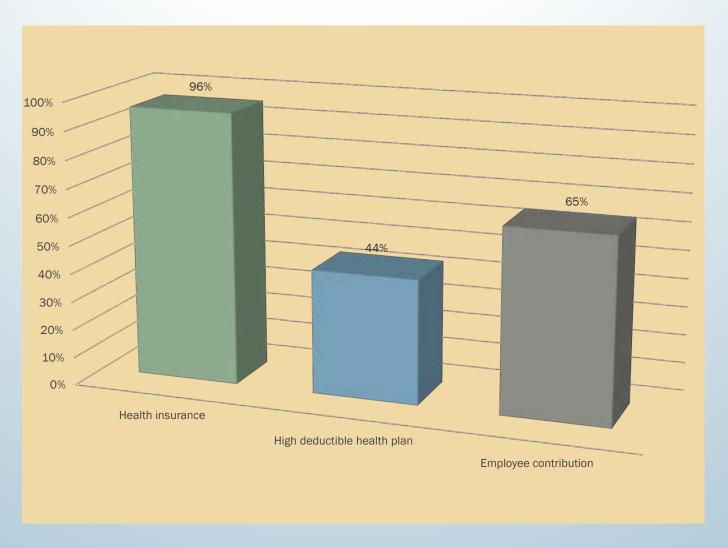


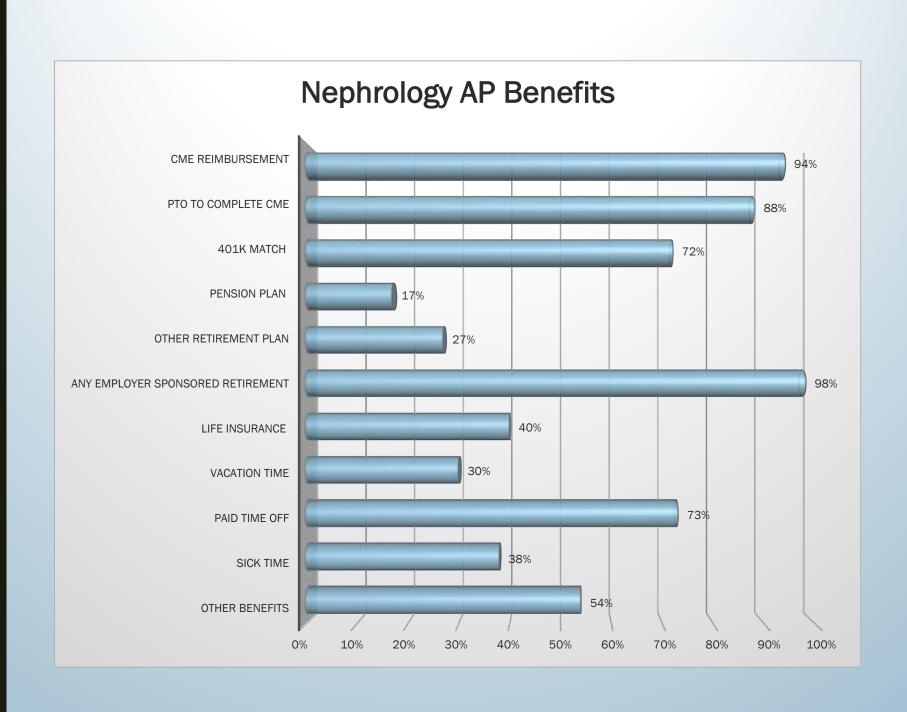


Nephrology AP Compensation



Health Insurance Benefits



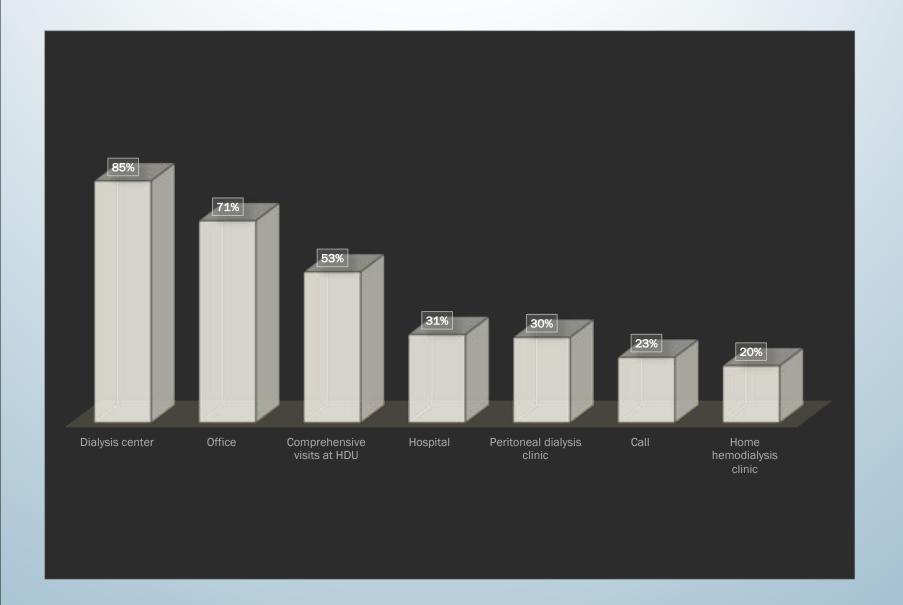


Additional Benefits

- License renewal
- Travel for conferences
- Higher education tuition subsidy
- Membership to professional organizations
- Journal and UpToDate subscriptions
- Malpractice insurance
- Dental insurance
- Disability insurance

- Phone
- iPad
- Lab coats
- Costco membership
- Pay for sick leave not taken
- Mileage
- Car allowance
- Expense account
- Bonus Pay

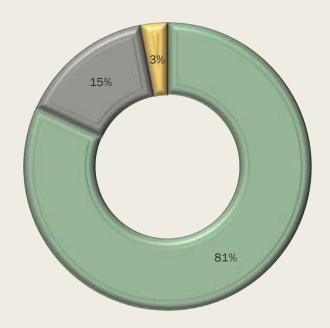
Nephrology AP Practice Settings/Job Scope



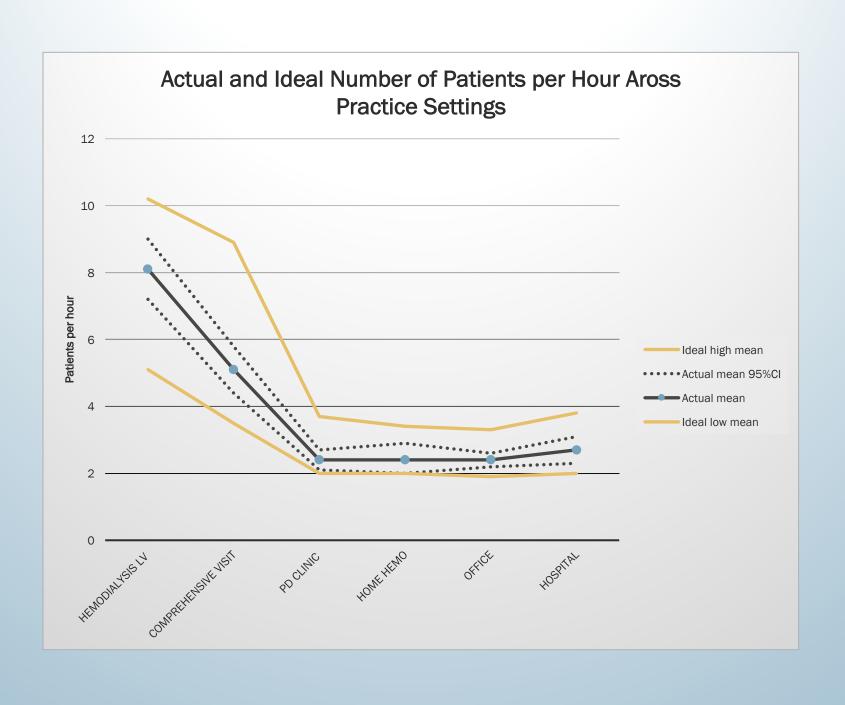
Work Hours



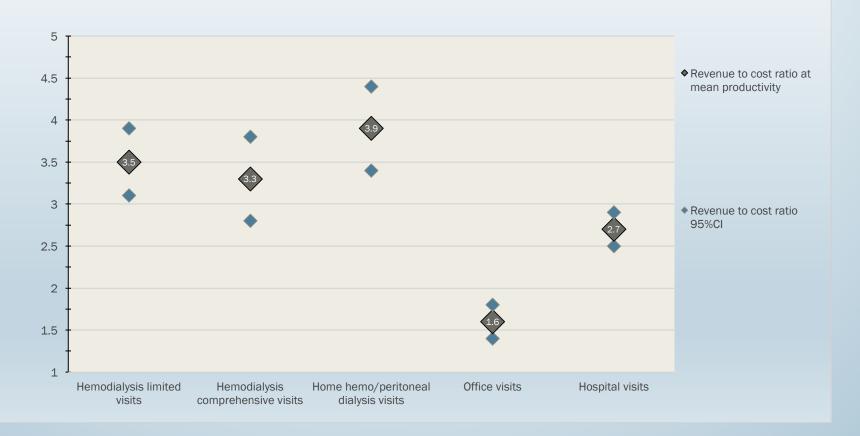
■40 hours or greater ■32-39 hours ■<32 hours



- 73% of Nephrology AP FTEs work more than 40 hours per week
- Average number of hours/wk for FTEs (working 40 or >hrs/wk) is 45.2



Ratio of Revenue Generated by Nephrology APs to Nephrology AP Employment Cost Across Practice Settings



Revenue generated by FT AP calculated in hospital, office and dialysis center settings based on average actual practice volume and current national average Medicare reimbursement rates

^{*}Revenue adjusted for national average overhead costs in medical practice⁴

^{*}Salary adjusted for non-comp costs to employer (payroll taxes, benefits, etc)⁵

Limitations

- Self reported data
- Small sample size with wide geographic distribution
- Represents a substantial proportion of nephrology APs practicing in the US
- HRR referral may not adequately control for regional variations in compensation
- Value of benefits estimated using Kaiser Family Foundation and Bureau of Labor Statistics data
- May not accurately capture true benefit value
- Revenue generation projections are based on Medicare reimbursement
- Actual revenue generated will vary based on case mix of patient population

Conclusions

- Non-Hispanic white race has a statistically significant association with higher value benefits and higher adjusted salary
- Working in administration or hospital in hospital is associated with significant higher compensation (benefits, salary/benefits)
- Nephrology APs work in a wide range of practice settings
- Nephrology AP salaries are consistent with AP salaries nationwide
- The majority of APs have HDHP and/or pay for part of their health insurance premiums

Conclusions

- Nephrology APs report that actual patient volume is on the lower end of their self-defined 'reasonable range' in most practice settings
- Nephrology APs can generate revenue up to 3x employment costs
- Reimbursement to employment cost ratio is highest for dialysis, lowest in the office setting
- Nephrology APs are a hard working bunch!

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Questions?
Comments?
Suggestions for next years survey....