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Ensuring Evidence-Based Practice: A Study of Factors Associated with Nonutilization of American Urological Association Guidelines

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Abstract

Introduction: Evidence-based guidelines are published by AUA (American Urological Associa-AUAG = AUA Guidelines tion) to improve the quality and consistency of urological care. The 2014 AUA Census reported a U.S. = United Statesunique field regarding provider utilization of AUA Guidelines. We sought to identify factors associated with nonuse of AUA Guidelines to understand how education and dissemination of these guidelines might be improved. Methods: Using 2014 AUA Census data providers were stratified based on self-reported use or nonuse of AUA Guidelines. Bivariate analyses and multivariable logistic regression analysis were performed to identify factors associated with nonuse. Post-stratification weights were applied to calculate national estimates with SAS®, version 9.4. Results: The 2,202 survey respondents represented 11,680 practicing urologists. AUA guideline use was reported by 95.0% of the weighted population. There was no significant difference in utilization based on gender, race, country of origin, practice type or fellowship completion. After controlling for other variables urologists who reported practicing in a rural area were more likely to be nonusers (OR 1.06, 95% CI 1.03–1.09). Additionally, urologists who had been practicing longer were less likely to utilize guidelines compared with those earlier in the career (practicing 10 to 20 years OR 1.15, 95% CI 1.10–1.21 and more than 20 years OR 1.13, 95% CI 1.09–1.18, p <0.05). Conclusions: Despite continued publication and dissemination of AUA Guidelines about 5% of urologists do not utilize guidelines. Later career status and rural geography were associated with nonuse. These data may inform efforts to improve dissemination and education regarding evidencebased practice. Key Words: urology, evidence-based practice, guideline, clinical competence, surveys and questionnaires Submitted for publication January 5, 2016. institutional animal care and use committee approval; all human subjects pro-No direct or indirect commercial incentive associated with publishing this vided written informed consent with guarantees of confidentiality; IRB article approved protocol number; animal approved project number. * Correspondence: Dartmouth Hitchcock Medical Center, 1 Medical Center The corresponding author certifies that, when applicable, a statement(s) has been included in the manuscript documenting institutional review board, ethics Dr., Lebanon, New Hampshire 03756 (telephone: 603-650-6052; FAX: 603committee or ethical review board study approval; principles of Helsinki 650-4985; e-mail address: elias.s.hyams@hitchcock.org). Declaration were followed in lieu of formal ethics committee approval; 2352-0779/17/41-1/0 http://dx.doi.org/10.1016/j.urpr.2016.03.003 UROLOGY PRACTICE Vol. 4, 1-5, January 2017

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Ensuring Evidence-Based Practice

97 The use of clinical guidelines in medical decision making 98 spans all specialties. Indeed, evidence has shown that 99 guidelines can improve quality of care and processes associated with delivery of care.¹⁻³ Since 2003, AUA has issued 100 101 guidelines on diverse topics ranging from priapism to 102 asymptomatic microhematuria to castrate resistant prostate 103 cancer. These guidelines, which are intended to improve 104 quality and reduce variation in care practices, have been formulated by panels of experts, informed by published 105 106 evidence and stratified into standards, recommendations and 107 options based on the strength of supporting data. Promul-108 gation of guidelines has dovetailed with the AUA goal of 109 providing quality evidence-based education for its mem-110 bers.⁴ As a first principle, the use of guidelines not as a 111 cookbook but as a reference is desirable in clinical care from 112 the patient, provider and payer standpoints.

113 The first annual AUA Census was recently published with a detailed profile of urological provider demographic, 114 training, background and practice characteristics.⁴ The 115 census also queried respondents whether they use AUAG 116 117 in clinical practice. This presented a novel opportunity 118 to characterize providers who do and do not utilize guidelines to identify those who might be targets for further education 119 120 and dissemination. In particular, we hypothesized that later 121 career urologists or those with a nonU.S. nationality, who 122 may have decreased exposure to AUAG, would be less likely 123 to use these guidelines in their practice.

125 126 Methods

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We analyzed the first annual AUA Census, which was 127 128 administered by AUA between May and September 2014, 129 by weighting results to represent the population of prac-130 ticing urologists in the U.S. This study was considered 131 exempt from our institutional review board. Details 132 regarding survey administration and data collection were 133 described by AUA. In brief, NPI (National Provider Iden-134 tifier) numbers were used to identify practicing urologists or 135 pediatric urologists. Data fields included geographic distri-136 bution, demographic characteristics, education and training, 137 practice setting and other supplementary information. The 138 census design included post-stratification weighting as detailed in the AUA Census report.⁴ This allows for 139 adjustment to reduce nonresponse bias and it provides the 140 141 opportunity to generate national estimates.

142 The primary outcome measure was the response to 143 Question GL1, "Do you utilize AUA guidelines in your 144 clinical practice?" Possible answer choices included yes, no 145 or "I am not aware of AUA guidelines." Covariates of in-146 terest included gender, country of origin, race, years prac-147 ticing urology, geographic region, practice specialty, fellowship training, location setting of practice, type of
employer, ownership in equipment and participation in
major procedures. Notably, country of origin was not clar-
ified in the survey description and it might be interpreted to
represent birth country, training country or site of current
practice.148
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Bivariate analyses were performed to examine any differences in the covariates comparing urologists who did to and did not report using guidelines. Two respondents who answered "I am not aware of AUA guidelines" were removed from our analysis. 158

159 The Fisher exact test was used to analyze categorical variables. We fit logistic regression models with guideline 160 nonuse as the outcome variable. We assessed whether urol-161 ogist age, years in practice and practice location (country of 162 origin U.S. vs nonU.S.) were associated with nonuse while 163 controlling for potential confounders, including age as 164 defined by years in clinical practice, gender, race, fellowship 165 training, practice setting and ownership in equipment. Survey 166 weights were used to represent the national population 167 of urologists. Significance was 2-sided and considered at 168 p < 0.05. All analysis was performed with SAS, version 9.4. 169

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Results

A final number of 2,202 respondents, representing 11,608 173 practicing urologists, were included in analysis. Of those re-174 spondents 11,099 (95.0%) reported using AUAG in clinical 175 decision making. Table 1 shows the characteristics of all [T1] 176 practitioners stratified by outcome. Significant differences were 177 178 noted based on number of years in practice, geographic setting, location of practice, ownership in equipment and self-reported 179 180 participation in major procedures (p < 0.05). Whereas 99% of urologists who had been practicing for 10 years or less reported 181 using guidelines, only 91% of those practicing for longer than 182 183 20 years reported using guidelines. There were similar findings based on age in that 10% of urologists older than 65 years 184 reported not using guidelines while 0% of those younger than 185 35 years reported not using them. 186

For the variable describing practice location 97% of 187 urologists working at academic medical centers or private/ 188 public hospitals followed guidelines vs 90% of those in solo 189 practice. Interestingly, a lower percent of urologists who 190 reported owning equipment followed AAUG vs nonowners 191 (94% vs 96%, p = 0.049). Finally, those who participated in 192 major procedures also reported higher guideline use (96% vs 193 91%, p = 0.001). 194

On multivariable logistic regression analyses longer time 195 in practice (more than 20 years OR 1.13, 95% CI 1.09–1.18 Eq. 196 and 10 20 20 years OR 1.15, 95% CI 1.10–1.21) and 197 practicing in a rural/micropolitan setting (OR 1.06, 95% CI 198 Download English Version:

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