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Providing Access to Care through	a 24-Hour Dedicate	d Stone Line
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Abstract	R	Abbreviations and Acronyms
<b>Introduction:</b> Many patients with urolithiasis are seen acutely in the emergency department for initial treatment. In an effort to improve cost and quality of care increasing focus has been placed on shifting management of low acuity conditions from emergency departments to outpatient settings. One barrier to such initiatives is timely access to outpatient services. We established a telephone stone line to provide access to outpatient urological care of kidney stones and we report our initial experience.		ED = emergency department ESWL = extracorporeal shock wave lithotripsy SL = telephone stone line
<b>Methods:</b> A 24-hour dedicated telephone stone line was created staff. A computer program was created to track stone line calls tively analyzed all stone line calls received in a 4-year period with An e-mail survey was performed to assess patient satisfaction.	with calls answered by dedicated and post-call care. We retrospec- h the focus on utilization and cost.	
<b>Results:</b> Between January 2009 and July 2013 the mean call von nificant distribution of calls was seen across all days and hours. I in 7,761 calls (82%). Patients or family members placed 77% of As a result of a stone line call, 4,173 patients (76%) were seen be the patients 88% reported satisfaction with the stone line. The metelephone stone line was \$233,425.	blume was 2,107 per year. A sig- Duration was less than 15 minutes calls and physicians placed 16%. by a urologist within 48 hours. Of mean annual cost of providing the	
<b>Conclusions:</b> Our experience demonstrates sustained utilization phone stone line. Further, stone line use results in timely outpat patients. Further analysis to assess for a cost benefit is ongoing.	of and satisfaction with the tele- tient evaluation in the majority of	
Key Words: kidney calculi, telephone, triage, health services acc	cessibility, costs and cost analysis	
Submitted for publication December 6, 2015. No direct or indirect commercial incentive associated with publishing this article. The corresponding author certifies that, when applicable, a statement(s) has been included in the manuscript documenting institutional review board, ethics committee or ethical review board study approval; principles of Helsinki Declaration were followed in lieu of formal ethics committee approval; insti- tutional animal care and use committee approval; all human subjects provided	<ul> <li>written informed consent with guarantees of confidentiality; IRB approprotocol number; animal approved project number.</li> <li>Presented at annual meeting of American Urological Association, Orlar Florida, May 16-21, 2014.</li> <li>* Correspondence: Department of Urology, Virginia Urology, 9105 St Point Dr., Richmond, Virginia 23235 (telephone: 804-385-9511; FAX: 8746-4015; <i>e-mail address:</i> derapp@yahoo.com).</li> </ul>	
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Providing Access to Care through Dedicated Stone Line

97 Urolithiasis represents an increasing health care problem 98 across the world. The prevalence of kidney stones in the 99 United States is estimated to be 10.6% in men and 7.1% in women.<sup>1</sup> Further, the prevalence and incidence of kidney 100 stone disease are increasing.<sup>2</sup> 101

102 Given the prevalence of kidney stones, the financial 103 impact is significant. The presentation of kidney stones is 104 often acute with associated renal colic, causing patients to 105 frequently seek care in emergency facilities as opposed to 106 primary care settings. While managing renal colic in the ED is effective, it is often inefficient and costly. The annual 107 108 medical expenditure for urolithiasis in the United States is 109 estimated to be more than \$5 billion with a large percent due 110 to ED evaluation and treatment.<sup>3</sup> In addition, evaluation of patients with stone disease often delays definitive treatment, 111 112 which is most commonly performed in an outpatient setting.

113 Numerous health policy changes are focused on 114 decreasing ED utilization in an effort to reduce cost and 115 improve quality of care. Such measures include financial 116 incentives, patient education and managed care methods.<sup>4</sup> 117 Other measures focus on improving access to outpatient 118 services through outreach clinics and adding capacity in nonED settings.<sup>4,5</sup> 119

120 In an effort to provide increased access for patients with 121 kidney stones we established a dedicated SL for these 122 patients. The SL enables 24-hour access for patients and 123 providers to provide efficient and directed care of acute 124 kidney stone disease in an outpatient setting. This analysis is 125 a preliminary assessment of the SL with a focus on utili-126 zation and cost outcomes.

## 129 Methods

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130 The SL was established in the setting of a large (30 physi-131 cians) urology practice. This practice, which has more than 132 45,000 active patients, provides imaging services, ambula-133 tory surgery and ESWL. Calls to the SL were answered by a 134 staff of 3 dedicated personnel 24-hours a day, 7 days a 135 week. The full-time nonmedical clerical staff was trained, 136 provided with a policy manual and equipped with a wireless 137 phone and laptop computer to allow for access to the office 138 and hospital electronic medical records. In the office elec-139 tronic medical records a computer program was created to 140 document SL calls and track post-call care. 141

Importantly, the function of the SL was to help efficiently 142 direct appropriate patients with acute renal colic to the clinic 143 setting for outpatient evaluation instead of delivering care 144 via telephone. For this reason clerical staff highly trained in 145 practice scheduling software were chosen, in contrast to 146 medical personnel (eg physician assistants and nurses), who 147

148 would also be associated with higher cost. The SL program was overseen by a supervising physician and physician 149 supervision was available at all times. 150

151 In the brief summary of SL policy and direction provided staff members were instructed to record complete 152 demographic and clinical details for each call and were 153 provided with a list of required details. Patients reporting 154 defined symptoms of concern (fever, retention, nausea and/ 155 or uncontrollable pain) were referred immediately to a su-156 pervising urologist. Patients not reporting these symptoms 157 were offered expedient evaluation in clinic (same day or 158 159 next day).

Staff were instructed not to provide medical advice 160 regarding clinical scenarios such as the use of prescription 161 pain medications, or fluid consumption or restriction. 162 Importantly, staff were provided with a detailed list of op-163 tions for clinical assessment depending on the day and 164 time of call and they made these arrangements for all pa-165 tients. When ED referral was deemed necessary, they were 166 responsible for calling the ED charge nurse and providing 167 patient clinical and demographic information. All patients 168 were offered the option of speaking to the physician on call 169 if concerns or questions remained after SL triage. 170

In an effort to improve outreach and access the SL 171 number was advertised to the general public via radio and 172 173 print media. Letters introducing the SL service were sent to existing patients and referring physicians. Finally, SL 174 business cards were distributed to established patients with 175 stone, and local ED and primary care physicians. 176

## Stone Line Analysis

180 We retrospectively reviewed all SL calls received between 181 January 2009 and July 2013 with the focus on feasibility, utilization, cost and patient satisfaction. Institutional review board exemption was granted for this analysis. Data assessed included total number of calls, day and time of call, and duration of call. Financial analysis was performed to determine the overall cost of providing the SL service.

Patient satisfaction was assessed using e-mail survey provided to a cohort of patients who used the SL between October 2013 and July 2014. The survey consisted of 4 190 items assessing satisfaction with the SL with an additional 191 free text item for comment (see Appendix). Data are pre-192 sented as the mean  $\pm$  SD. 193

## Results

Between January 2009 and July 2013 the SL received 9,482 197 calls. The mean annual volume of calls was 2,107  $\pm$  103 198

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