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urologypracticejournal.com Out-of-Pocket Costs of Men Undergoing Infertility Care and Associated Financial Strain Peter A. Elliott, Jacquelyn Hoffman, Matthew Abad-Santos, Christopher Herndon, Patricia P. Katz and James F. Smith* 10 12 From the Department of Urology, Kaiser Permanente (PAE), Los Angeles and Departments of Obstetrics and Gynecology (CH) and Urology 13 EQ1 (MAS, PPK) and Institute for Health Policy Studies (PPK), University of California-San Francisco (JFS), San Francisco, California 14 15 16 Abbreviations Abstract 17 and Acronyms 18 Introduction: We determined the out-of-pocket expenses, measures taken to finance these ex-ART = assisted reproductive 19 penses and associated financial strain in men seeking fertility care. technology 20 Methods: In this retrospective cohort the patients completed questionnaires recording the total ICSI = intracytoplasmic 21 amount of money spent on infertility care and on what aspect of care the money was spent. Parsperm injection 22 ticipants also recorded measures taken to finance these costs, the amount of financial strain IUI = intrauterine 23 experienced and how this strain impacted decisions to seek and continue care. Multivariable logistic insemination 24 regression was performed to assess the relationships of fertility characteristics to financial costs and IVF = in vitro fertilization 25 financial strain. OOP = out-of-pocket26 Results: A total of 111 participants completed the full survey. During the course of care 16% of 27 SES = socioeconomic status patients spent more than \$50,000 dollars. 16% spent between \$30,000 and \$49,999, 32% spent 28 between \$15,000 and \$29,999, and 37% spent less than \$15,000. Procedures comprised the largest 29 component of costs. Of the subjects 47% reported financial strain. On multivariate analysis patients who used savings and went into debt were significantly more likely to experience financial strain 30 (p = 0.03 and < 0.001, respectively).31 32 **Conclusions:** This study elucidates the previously uncharacterized economic hardships of male 33 infertility care. Overall 64% of men who pursued fertility treatment had out-of-pocket expenses exceeding \$15,000 dollars. Almost half reported financial strain and limitation of treatment options 34 due to these expenses. These data give men and their partners a realistic expectation of the cost of 35 pursuing fertility treatment, the extreme measures that many patients take to finance care and the 36 financial strain associated with such options. 37 38 Key Words: testis; infertility, male; expenditures, out-of-pocket; reproductive techniques, assisted; 39 questionnaires 40 Submitted for publication May 26, 2015. institutional animal care and use committee approval; all human subjects pro-42 No direct or indirect commercial incentive associated with publishing this vided written informed consent with guarantees of confidentiality; IRB 43 article approved protocol number; animal approved project number. * Correspondence: Department of Urology, University of California-San The corresponding author certifies that, when applicable, a statement(s) has 44 been included in the manuscript documenting institutional review board, ethics Francisco, 1600 Divisadero St., Box 1695, San Francisco, California 94143 45 committee or ethical review board study approval; principles of Helsinki (telephone: 415-353-3694; FAX: 415-885-7443; e-mail address: james.smith@ 46 Declaration were followed in lieu of formal ethics committee approval; ucsf.edu). 47 2352-0779/16/34-1/0 http://dx.doi.org/10.1016/j.urpr.2015.07.010 48 UROLOGY PRACTICE Vol. 3, 1-6, July 2016 © 2016 by American Urological Association Education and Research, Inc. Published by Elsevier

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Costs of Fertility and Associated Financial Strain

97 Infertility or the inability to achieve pregnancy in 1 year
98 with continued intercourse affects approximately 15% of
99 couples. A male factor is solely responsible in 17% and a
100 male factor contributes in 33% to 35% of couples.¹

101 Since the first live birth conceived via IVF in 1978,² large advances have been made in the field of ART in the number 102 103 of available treatment modalities and technicians capable of 104 performing such procedures, and overall success rates. These treatments, in addition to more traditional surgical 105 techniques, provide patients with a variety of options.^{3,4} 106 Despite recent advances the costs of fertility treatments 107 108 remain high, impose significant barriers to access for households of lower socioeconomic status,^{5,6} and typically 109 are poorly mitigated by insurance coverage^{7,8} as most in-110 surers recognize male infertility as a lifestyle choice, 111 although in 2008 ASRM (American Society of Reproduc-112 113 tive Medicine) classified infertility as a disease.^{8,9}

114 We reported that the median cost to women undergoing 115 infertility treatment can range from \$1,182 for medications 116 to \$24,373 for IVF and \$38,015 for IVF with donor eggs.¹⁰ Other groups have examined the per cycle and per live birth 117 costs of IVF with estimates ranging from \$9,547¹¹ to 118 \$58,395.¹² More recently we evaluated OOP expenses of 119 couples pursuing fertility care with a median OOP expense 120 121 of \$5,338 and a median as high as \$19,234 for those undergoing IVF.¹³ These estimates are limited to monetary 122 costs and do not characterize the significant time spent, work 123 124 hours lost and mental stress imposed by such treatments.¹⁴

Little has been published on the direct costs incurred by
men pursuing fertility care. Previous studies have compared
the cost-effectiveness of common surgical interventions
(vasectomy reversal and varicocelectomy) vs ART. Older
studies concluded that, in general, surgery tended to be more
cost-effective from a payor standpoint and immediate IVF is
never cost-effective.¹⁵⁻¹⁸

132 In our cohort of men seeking fertility care we used 133 retrospective survey data to estimate the total OOP expen-134 ditures incurred while pursuing reproductive treatment, the 135 components of these costs, the financial strain that subjects 136 experienced and how this impacted their fertility care de-137 cisions. We hypothesized that infertility expenditures are 138 associated with the treatment selected, socioeconomic fac-139 tors and insurance coverage.

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142 Methods

143 144 *Cohort Description*

Men were recruited from the Center for Reproductive Health
at University of California-San Francisco upon presentation
for infertility evaluation, hypogonadism or abnormal semen

148 analysis. Of 263 men who met study inclusion criteria 216 agreed to participate, including 121 who pursued infertility 149 care and submitted full questionnaires at the conclusion of 150 care (supplementary Appendix, http://jurology.com/). The 151 latter was defined as a patient report of no longer pursuing 152 treatment and successful pregnancy was the most common 153 reason. Pregnancies were self-reported by patients. Ten 154 additional subjects were excluded due to discrepancies in 155 financial reporting. Additional information on treatments 156 used and diagnoses were gathered through patient chart re-157 views. The University of California-San Francisco institu-158 tional review board approved the study protocol and all 159 subjects provided written consent. 160

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Primary Outcomes

164 Direct costs of fertility treatment were determined by pa-165 tient responses to a survey administered after the conclu-166 sion of care. Subjects were asked the question, "From the 167 beginning of your care until the end, what was the total 168 amount you spent on fertility care?" Answer choices were 169 stratified into costs ranges from \$1 to \$499 and to more 170 than \$75,000. Due to few responses in many ranges data 171 were collapsed into the categories less than \$5,000, \$5,000 172 to \$14,999, \$15,000 to \$29,999, \$30,000 to \$49,999 and 173 greater than \$50,000. Details of expenses were elucidated 174 further with a series of questions to characterize how much 175 was spent on medications for the subject, medications for 176 the partner, testing/diagnosis (ultrasound, laboratory eval-177 uation, hysterosalpingogram, etc), fertility procedures (ie 178 IUI and IVF/ICSI), surgery for the subject (ie sperm 179 retrieval, vasectomy reversal and varicocelectomy) and 180 surgery for the partner. 181

To assess financial strain participants were asked, "Did your fertility treatment cause financial strain?" To allow for logistic regression the answers were limited to yes or no. Subjects were also asked how the cost of fertility treatment impacted access to care, options and cycles of treatment, and whether cost greatly influenced the decision to stop fertility treatment.

Predictor Variables

Demographic information was collected with survey re-
sponses. Education was dichotomized to less than college
graduate or college graduate. Income was stratified into less
than \$100,000, \$100,000 to \$199,999, \$200,000 to
\$299,999 and greater than \$300,000 for linear and logistic
regression models. Race and ethnicity were self-reported
and dichotomized to white or nonwhite.192
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