

**TABLE 1. Summary of emergency contraception–related studies among males and health care providers**

Participant and study type	Sample	Measures/analyses
<b>MALES</b>		
<b>Quantitative/nonclinical samples</b>		
Corbett et al., 2006 <sup>21</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 97 college students in Wilmington, NC</li> <li>• 25% male</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Results reported by gender</li> </ul>
Delbanco et al., 1997 <sup>15</sup>	<ul style="list-style-type: none"> <li>• Random national sample of 2002 adults</li> <li>• 50% male</li> <li>• 50% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge</li> <li>• Results not reported by gender</li> <li>• Multivariate analyses focused on females</li> </ul>
Delbanco et al., 1998 <sup>16</sup>	<ul style="list-style-type: none"> <li>• Stratified random national sample of 1,510 teenagers</li> <li>• 50% male</li> <li>• 50% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, behavior</li> <li>• Some results reported by gender</li> <li>• Most multivariate analyses focused on females</li> </ul>
Delbanco et al., 1998 <sup>17</sup>	<ul style="list-style-type: none"> <li>• Stratified random national sample of 843 adults</li> <li>• 23% male</li> <li>• 59% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Results reported by gender</li> </ul>
Harper and Ellertson, 1995 <sup>14</sup>	<ul style="list-style-type: none"> <li>• Random sample of 550 university students in Princeton, NJ</li> <li>• 58% male</li> <li>• 82% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Some results reported by gender</li> <li>• Multivariate analyses did not stratify by gender or examine interactions between gender and other measures</li> </ul>
Harper et al., 2003 <sup>18</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 519 adults in San Francisco</li> <li>• 0% male</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, behavior</li> <li>• Examined women's views of males' role</li> <li>• Multivariate analyses presented</li> </ul>
Miller, 2011 <sup>24</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 692 college students in Edinboro, PA</li> <li>• 49% male</li> <li>• 97% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Results reported by gender</li> <li>• Bivariate analyses presented</li> </ul>
Nguyen and Zaller, 2009 <sup>25</sup>	<ul style="list-style-type: none"> <li>• Selective sample of 303 adults in Providence, RI</li> <li>• 46% male</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Results reported by gender</li> <li>• Multivariate analyses presented</li> </ul>
Salganicoff et al., 2004 <sup>19</sup>	<ul style="list-style-type: none"> <li>• Random sample of 1,151 California teenagers and adults</li> <li>• Proportion of males not reported</li> <li>• 95% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Some results reported by gender</li> </ul>
Sawyer and Thompson, 2003 <sup>20</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 693 college students in College Park, MD</li> <li>• 50% male</li> <li>• 95% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Some results reported by gender</li> </ul>
Urena and Yen, 2009 <sup>22</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 518 California high school students</li> <li>• 41% male</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes</li> <li>• Results reported by gender</li> </ul>
Vahratian et al., 2008 <sup>23</sup>	<ul style="list-style-type: none"> <li>• Random sample of 1,585 college students in Ann Arbor, MI</li> <li>• 29% male</li> <li>• 23% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Results reported by gender</li> </ul>
<b>Qualitative/nonclinical samples</b>		
Harper and Ellertson, 1995 <sup>26</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 100 adults in Princeton, NJ</li> <li>• 30% male</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes</li> <li>• Results not reported by gender</li> </ul>
Johnson et al., 2010 <sup>27</sup>	<ul style="list-style-type: none"> <li>• Snowball sample of 47 teenagers and adults in New York</li> <li>• 40% male</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Results not reported by gender</li> </ul>
Merkh et al., 2009 <sup>28</sup>	<ul style="list-style-type: none"> <li>• Purposive sample of 41 sexually active young adults in Pennsylvania</li> <li>• 100% male</li> <li>• 71% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> </ul>
<b>Quantitative/clinical samples</b>		
Armstrong et al., 2010 <sup>30</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 157 teenagers and adults in New York</li> <li>• 100% male</li> <li>• 90% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge</li> </ul>
Cohall et al., 1998 <sup>29</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 197 teenagers and adults in New York</li> <li>• 20% male</li> <li>• 87% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, behavior</li> <li>• Some results reported by gender</li> </ul>

**CLINICIANS**

**Quantitative**

Beckman et al., 2001 <sup>38</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 102 clinicians (64% physicians, 36% other clinicians) in San Diego County, CA</li> <li>• 62% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Did not focus on males</li> <li>• Baseline data from intervention study</li> </ul>
Chuang and Freund, 2005 <sup>39</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 56 clinicians (87% physicians, 13% other clinicians) at a Boston hospital</li> <li>• 78% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Did not focus on males</li> <li>• Baseline data from intervention study</li> </ul>
Chuang et al., 2004 <sup>36</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 292 clinicians (36% obstetrician-gynecologists, 34% family physicians, 31% internists) in Massachusetts</li> <li>• 59% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured behavior</li> <li>• Did not focus on males</li> <li>• Multivariate analyses presented</li> </ul>
Delbanco et al., 1997 <sup>15</sup>	<ul style="list-style-type: none"> <li>• Random national sample of 307 obstetrician-gynecologists</li> <li>• 77% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Did not focus on males</li> </ul>
Delbanco et al., 1998 <sup>17</sup>	<ul style="list-style-type: none"> <li>• Random national sample of 754 clinicians (40% obstetrician-gynecologists, 31% family physicians, 30% nurse practitioners or physician assistants)</li> <li>• 83% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured attitudes, behavior</li> <li>• Did not focus on males</li> </ul>
Gold et al., 1997 <sup>40</sup>	<ul style="list-style-type: none"> <li>• Random national sample of 167 clinicians (67% pediatricians, 23% obstetrician-gynecologists, 10% other physicians)</li> <li>• 55% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, behavior</li> <li>• Did not focus on males</li> </ul>
Golden et al., 2001 <sup>34</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 233 clinicians (type not reported) in New York State</li> <li>• 24% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Did not focus on males</li> </ul>
Kelly et al., 2008 <sup>32</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 96 primary care providers (52% family physicians, 30% obstetrician-gynecologists, 18% pediatricians) at universities in the South and Midwest</li> <li>• 70% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Did not focus on males</li> <li>• Multivariate analyses presented</li> </ul>
Lawrence et al., 2010 <sup>41</sup>	<ul style="list-style-type: none"> <li>• Random national sample of 1,154 obstetrician-gynecologists</li> <li>• 66% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured attitudes, behavior</li> <li>• Did not focus on males</li> </ul>
Lim et al., 2008 <sup>43</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 101 pediatric residents at three hospitals in New York</li> <li>• 84% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured attitudes, behavior</li> <li>• Did not focus on males</li> </ul>
McCarthy et al., 2005 <sup>45</sup>	<ul style="list-style-type: none"> <li>• National convenience sample of 250 providers (70% nurse practitioners, 9% physician assistants, 21% other staff) at health centers based in public high schools</li> <li>• 73% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured attitudes, behavior</li> <li>• Did not focus on males</li> <li>• Multivariate analyses presented</li> </ul>
Sable et al., 2006 <sup>31</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 96 primary care providers (52% family physicians, 30% obstetrician-gynecologists, 18% pediatricians) at universities in the South and Midwest</li> <li>• 70% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, behavior</li> <li>• Did not focus on males</li> </ul>
Sills et al., 2000 <sup>35</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 121 providers (type not reported) in Washington, DC</li> <li>• 61% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured behavior</li> <li>• Did not focus on males</li> <li>• Multivariate analyses presented</li> </ul>
Sobata et al., 2008 <sup>37</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 35 providers (type not provided) at a community-based health center in New York</li> <li>• 80% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured behavior</li> <li>• Did not focus on males</li> </ul>
Upadhyia et al., 2009 <sup>42</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 141 Baltimore-area pediatric residents</li> <li>• 50% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured behavior</li> <li>• Did not focus on males</li> </ul>
Veloudis and Murray, 2000 <sup>44</sup>	<ul style="list-style-type: none"> <li>• Convenience sample of 176 physicians in training (43% internists, 26% pediatricians, 21% family physicians, 11% obstetrician-gynecologists) at a hospital in Lexington, KY</li> <li>• 48% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured knowledge, attitudes, behavior</li> <li>• Did not focus on males</li> <li>• Multivariate analyses presented</li> </ul>
Xu et al., 2007 <sup>33</sup>	<ul style="list-style-type: none"> <li>• Random sample of 252 providers (type not reported) in Michigan</li> <li>• 32% response rate</li> </ul>	<ul style="list-style-type: none"> <li>• Measured attitudes, behavior</li> <li>• Did not focus on males</li> <li>• Multivariate analyses presented</li> </ul>

## PHARMACISTS

Author(s), Year	Study Description	Findings
Bennett et al., 2003 <sup>46</sup>	<ul style="list-style-type: none"><li>• Random sample of 315 pharmacists (70% chain, 30% nonchain) in Pennsylvania</li><li>• 98% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, attitudes, behavior</li><li>• Did not focus on males</li><li>• Multivariate analyses presented</li></ul>
Borrego et al., 2006 <sup>48</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 523 pharmacists (setting type not reported) in New Mexico</li><li>• 40% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, attitudes</li><li>• Did not focus on males</li></ul>
Davidson et al., 2010 <sup>53</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 668 pharmacists (setting type not reported) in Nevada</li><li>• 34% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured attitudes, behavior</li><li>• Did not focus on males</li></ul>
El-Ibiary et al., 2007 <sup>50</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 76 pharmacists (setting type not reported) in San Francisco</li><li>• 62% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, attitudes</li><li>• Did not focus on males</li></ul>
Fuentes and Azize-Vargas, 2007 <sup>51</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 332 pharmacists (47% community, 28% chain, 25% hospital) in Puerto Rico</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, attitudes, behavior</li><li>• Did not focus on males</li></ul>
Gordon, 2007 <sup>55</sup>	<ul style="list-style-type: none"><li>• Stratified random survey of 155 pharmacists (setting type not reported) in New York</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, behavior</li><li>• Did not focus on males</li></ul>
Landau et al., 2009 <sup>56</sup>	<ul style="list-style-type: none"><li>• Stratified random national sample of 2,725 pharmacists (64% chain, 31% independent, 5% other)</li><li>• 19% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, attitudes, behavior</li><li>• Did not focus on males</li></ul>
Nguyen and Zaller, 2010 <sup>52</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 226 pharmacists (88% chain, 11% independent) in Rhode Island</li><li>• 60% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured attitudes, behavior</li><li>• Did not focus on males</li><li>• Multivariate analyses presented</li></ul>
Orr and Kachur, 2007 <sup>49</sup>	<ul style="list-style-type: none"><li>• Random sample of 85 pharmacists (62% chain, 17% grocery store, 15% independent, 6% superstore) in Rhode Island</li><li>• 61% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured attitudes, behavior</li><li>• Did not focus on males</li></ul>
Sommers et al., 2001 <sup>54</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 159 pharmacists (58% chain, 26% independent, 10% other, 6% unknown) in Washington</li><li>• 51% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured attitudes, behavior</li><li>• Did not focus on males</li></ul>
Van Riper and Hellerstedt, 2005 <sup>47</sup>	<ul style="list-style-type: none"><li>• Convenience sample of 510 pharmacists (69% retail, 22% hospital, 8% government) in South Dakota</li><li>• 67% response rate</li></ul>	<ul style="list-style-type: none"><li>• Measured knowledge, attitudes, behavior</li><li>• Did not focus on males</li><li>• Multivariate analyses presented</li></ul>

Notes: Where no response rate is shown, the rate was not reported or measured. Percentages may not total 100 because of rounding. For complete references (indicated by superscripts), see page 191.