

# Religion, Family Structure, and the Perpetuation of Female Genital Cutting in Egypt

Lisa Blaydes\*      Melina R. Platas†

May 2020

## Abstract

How are harmful social practices brought to an end? Female genital cutting (FGC) is extremely common among ever-married women in Egypt, but the practice has declined among younger women and girls. While much of the recent literature on abatement of FGC has focused on individual-level determinants of a mother's choice to circumcise her daughters, we focus on meso-level factors, particularly norm change within religious communities and attitude formation within families. We find differential FGC trends across Muslim and Coptic Christian communities as well as an effect of the gender of a woman's first-born child — an exogenous variable in Egypt where pre-natal sex selection is rare — on attitudes toward FGC. The effect of first-born gender varies by religion and birth cohort, however, suggesting ways in which meso-level factors interact to impact women's attitudes and associated FGC outcomes.

---

\*Department of Political Science, Stanford University

†Division of Social Science, New York University Abu Dhabi

# 1 Introduction

Female genital cutting (FGC) is a nearly ubiquitous cultural practice among ever-married women in Egypt, Eritrea, Mali and Sudan, and is practiced elsewhere in Africa, the Middle East, and Asia.<sup>1</sup> According to the World Health Organization, around 140 million women and girls have been subjected to FGC, and 30 million more girls will be cut in the next decade if current trends continue. While some defend female circumcision as a long-standing, widely-practiced societal tradition, human rights activists view FGC as one of the most common forms of institutionalized violence committed against girls in the developing world. Ironically, the practice is overwhelmingly undertaken at the behest of mothers who believe that their actions are morally, socially, and economically justified despite the fact that their own experiences with FGC, and its aftermath, are often described as traumatic.<sup>2</sup>

This paper explores population-level patterns in FGC as well as women’s attitudes toward the perpetuation of female circumcision in Egypt. While existing studies tend to focus on individual-level factors — like a woman’s education level or socioeconomic status — we focus on meso-level factors associated with a woman’s religious community and her family structure. Using data from multiple waves of the Demographic and Health Surveys, we find that Christian women have seen sharper declines in FGC than their Muslim counterparts despite comparable average levels of education. We argue that Christian religious leaders played a key role in encouraging community members to converge on a change in social practice with regard to FGC. For Egyptian Muslims, on the other hand, conflicting religious edicts put forward by state-sponsored elites and the leadership of Islamist organizations, like the Muslim Brotherhood, have sowed uncertainty regarding the desirability of FGC as a practice. Our arguments emphasize the importance of social coordination within religious communities as key to ending FGC.

In order to explore the mechanisms underlying evolving attitudes toward FGC, we conduct an original survey of young mothers in Greater Cairo. We find that Muslim and Christian women have divergent beliefs about how religious leaders in their communities view FGC. We find that Christian women believe that their religious leaders seek an end to FGC, an empirical result consistent with our conclusion that religious elites have a key role to play in influencing social change on this issue.

While differences in FGC rates across these two religious communities are substantively significant they belie forms of within community variation. In particular, we also find that socialization within families shapes mothers’ attitudes regarding FGC. For older women, the gender of a first-born child — an exogenous variable in Egypt where pre-natal sex selection is rare — impacts attitudes toward FGC. In particular, older Muslim and Christian women with first-born sons are more likely to believe FGC should continue even though Christian women have lower levels of support for the continuation of FGC, overall. We hypothesize that having sons invests mothers, to some degree, in traditional values that can impact attitudes

---

<sup>1</sup>Undertaken by Muslims, Christians and, in some cases, African Jewish communities, FGC involves the partial or complete removal of the external female genitalia, and is typically performed on girls by the age of fourteen, before a girl reaches puberty. In this paper, we use the terms female genital cutting and female circumcision interchangeably.

<sup>2</sup>Recent studies have suggested that the costs of interpersonal violence — like FGC — may be costlier and more pervasive than those associated with civil war (Fearon and Hoeffler 2014).

toward gender-related practices and social norms. The first-born gender effect is attenuated for younger mothers, however, and among younger Muslim women, a male first-born child is associated with the opposite result. We believe that the Islamic Revival, which began in the 1970s, may be leading younger Muslim mothers to eschew more traditional patriarchal values as they adopt a forms of Islamic modernism that require women to serve as virtuous exemplars of religious morality, regardless of circumcision status.

Most broadly, our findings contribute to understanding the conditions under which harmful social practices, particularly ones that hurt women and girls, perpetuate or end (e.g., Mackie 1996; Bicchieri 2016). The mechanisms that we describe draw attention to the importance of religious authority in encouraging or blocking changes in social norms. These issues are particularly salient in the study of the Middle East where religious elites are believed to be influential in the shaping of societal attitudes and behaviors (e.g., Eickelman and Piscatori 1996; Rubin 2017; Yildirm 2019). There exists systematic variation in support for harmful social practices even within religious communities, however. Our findings regarding the impact of first-child gender on attitudes toward FGC contribute to a growing literature on the effect of child gender on attitudes toward women by extending application of this particularly strategy for causal inference beyond North America (Warner 1991; Downey et al. 1994; Warner and Steel 1999; Washington 2008; Shafer and Malhotra 2011; Glynn and Sen 2015).

The remainder of the paper proceeds as follows. Section 2 describes anthropological accounts of the practice of FGC in Egypt, our case study, as well as a summary of the primary empirical findings in the existing literature. Because most of these findings are focused on the individual-level attributes of mothers, we describe our motivation for studying meso-level factors, like family and religious group socialization. Section 3 describes temporal variation in the prevalence of FGC by religious group; provides a qualitative discussion regarding how both Christian and Muslim religious leaders have engaged with the issue of FGC; and offers original survey data from Greater Cairo regarding how women view the attitudes of their religious elites. Section 4 adds family socialization — as proxied by first-child gender — to the set of factors which influence attitudes toward FGC for both Christians and Muslims. A final section concludes and elaborates on the broader implications of our findings.

## 2 Female Genital Cutting in Egypt

In this paper, we focus on abandonment of female genital cutting, a harmful practice that exists in nearly forty countries around the world, the majority of which are in Africa, Asia, and the Middle East. FGC is often considered a cultural or religious practice, although no religious text is known to require the cutting of female genitalia. The practice of FGC, particularly in its extreme forms, can have harmful and permanent effects on the physical, social, and emotional health of women and girls. Potential health consequences of FGC include infection, shock, hemorrhage, scarring, infertility, and difficulties with menstruation, pregnancy, and childbirth.

We focus on Egypt for two reasons. Although FGC was nearly universal for both Muslim and Christian women age forty and older, rates have declined over the last twenty years. As a result, Egypt provides an important locale for understanding how and when harmful

social practices witness change. At the same time, rates of FGC decline have been uneven. Its religious diversity and changing rates of FGC prevalence make Egypt an ideal setting for examining how various societal factors — like religious community and family structure — impact attitudes toward FGC and variation in rates of decline across different religious populations. Further, Egyptian women represent about one-fourth of women worldwide subjected to FGC, though the form of cutting that takes place in Egypt is less severe than in other African countries.<sup>3</sup>

Christians are believed to make up between 5 and 10 percent of Egypt’s total population, while the remainder of Egyptians are Muslim. While there exists considerable discussion within the Muslim community in Egypt about the desirability and permissibility of the practice, a different trend seems to be underway within the Christian community in Egypt. In a sample of ever-married women in Minya governorate, Christian women are having fewer daughters circumcised, less extensive forms of cutting are used and the practice is seen as less beneficial than among their Muslim neighbors (Yount 2004). In a sample of 1,200 women in urban Giza governorate surveyed in 2009, Christians reported 34 percent of their daughters have been subject to the practice while the percent for Muslims was about 55 percent (Blaydes and Gillum 2013). This paper explores this divergence *between* religious communities while also examining variation in attitude toward FGC *within* religious communities.

## 2.1 Anthropological Accounts

There are a variety of justifications offered by women regarding why FGC persists. Common reasons given include religious tradition or requirement, cleanliness, aesthetics, ensuring abstinence until marriage, preventing adultery, and improving a woman or girl’s prospects in the marriage market. Where it is prevalent, FGC is frequently associated with Islam, despite the fact that FGC is not practiced in most of the Islamic world. Moreover, the practice of FGC in the Nile Valley began before the arrival of Islam.

Anthropologists focusing on women’s issues in Egypt have written extensively about the prevalence of FGC. Seen as a rite of passage for girls moving from childhood to womanhood, FGC is reported by Egyptian women as being a practice that contributes to cleanliness, is required by religion, increases their marriage prospects and prevents adultery, among other things (El-Kholy 2002, 92). While religious commitment and associated norms of personal morality occupy an important place in the discourse around FGC, religion is often conflated with other objectives to create ambiguity about the incentives facing women and families making choices about FGC. Bibars, conducting field work among low-income women in the 1990s, finds FGC was done to “beautify girls, to please their husbands, or to restrain sexual desire” (2001, 150). According to Bibars,

---

<sup>3</sup>FGC in Egypt takes place typically on girls after the age of 4 but before the age of 14. Most women in Egypt have been subjected to a type of FGC that includes cutting of the clitoral hood, partial or complete removal of the clitoris and excision of the labia minora. Pharaonic circumcision — more typically described as infibulation — is the most severe form of FGC. While common in other parts of Africa, infibulation only takes place in the most southern communities of Egypt’s Nile Valley, primarily in the Nubian community.

“...all the women and young girls I met from the age of 16 to 50 were circumcised, and all young mothers were intending to circumcise their young daughters. Education, age, class and profession did not change the picture. All were advocates of female circumcision. When they were asked about the reason, religion was cited as the first excuse” (Bibars 2001, 150).

Among her informants, women were responsible for transmitting social messages about the practice while simultaneously suffering with their own traumatic memories of “screaming, pain, forcing legs apart, scissors and knife” (Bibars 2001, 150). El-Kholy (2002, 88) — conducting fieldwork in low-income areas of Cairo in the 1990s — describes the “universality of the practice among women in my sample, both Muslims and Copts: 100 percent were circumcised, and 100 percent had either already circumcised their daughters or were planning to circumcise their younger ones when they were a little older.” According to one informant, the biggest *‘ayb*, or shame, for a woman is to be uncircumcised (El-Kholy 2002, 91). Common across all accounts is the idea that the practice and perpetuation of FGC rests largely in the hands of mothers making what they believe to be a decision in the family’s best interests.

## 2.2 Empirical Approaches

Existing empirical studies examining attitudes toward FGC in Egypt have typically focused on the socio-economic status and educational background of mothers, who are seen as key decision makers associated with daughters’ FGC outcomes. Individual-level factors have been widely discussed in the existing literature and are important predictors of support for FGC. Yount (2002) finds — in a study of FGC in Upper Egypt — that a mother’s educational level is negatively associated with both her own circumcision status as well as her intent to circumcise her daughter. Suzuki and Meekers (2008) find that Egyptian women exposed to two or more FGC-related media messages are 1.6 times more likely than unexposed women to support discontinuing FGC. Modrek and Liu (2013) find that maternal education is associated with declines in FGC while paternal education is a less robust indicator of FGC status. In addition, high levels of exposure to FGC-related media messaging may also be associated with reduced support for FGC (Modrek and Liu 2013).

We focus our attention on two meso-level factors associated with the practice of FGC.<sup>4</sup> In particular, we explore socialization and attitude formation of women within their families. While a number of influential studies have considered household level variables, we focus on one particular aspect of the family — the gender of the first-born child. Why examine first-born child gender? Sociologists have shown that the gender of one’s children impacts a variety of attitudes. Samples of US and North American populations have been shown to be influenced by child gender (Warner 1991; Downey et al. 1994; Warner and Steel 1999; Shafer and Malhotra 2011). For example, Shafer and Malhotra (2011) find that having a daughter

---

<sup>4</sup>Our focus on group-level factors complements existing work on FGC, particularly with regard to the study of FGC in sub-Saharan Africa. For example, Hayford and Trinitapoli (2011) examine the relationship between religious obligation and FGC in Burkina Faso. They find differences between Christians, Muslims, and adherents of traditional religions and argue that differential FGC rates are largely explained by specific religious beliefs and other societal factors rather than individual respondent characteristics. The existing work on FGC in Egypt, however, has been less focused on these group-level determinants.

versus a son leads men to reduce support for traditional gender roles. US elites have also been shown to be influenced by child gender. Washington (2008) finds that conditional on total number of children, having daughters increases a US Congressperson’s propensity to vote liberally on issues related to reproductive rights. Glynn and Sen (2015) find that judges with daughters “consistently vote in a more pro-woman fashion on gender issues than judges who have only sons.”

A variety of theoretical mechanisms have been proposed to explain the relationship between child gender and parental attitudes and behavior. These include greater exposure to issues regarding gender equality when having a daughter (Warner and Steele 1999); children’s engagement in non gender-conforming tasks (Brody and Steeleman 1985); a preference that mothers of boys stay home rather than outsource child care (Downey et al. 1994); greater paternal investment in children when there is at least one male child (Harris and Morgan 1991); and that mothers of boys believe marital separation is less likely (Katzev et al. 1994).<sup>5</sup> While most studies on child gender focus on elite and US samples, we focus on Egypt, where we also expect that child gender may affect parental attitudes. Because we cannot know for sure that women in Egypt are not using a “stopping” rule, we restrict our analysis here to a woman’s exogenously-determined first-born child.<sup>6</sup> Sex selection is rare in Egypt, where gender selection procedures are expensive given income levels. Further, we expect that sex-selection would be especially rare for a first-born child. Egyptian doctors observe that there is no point in “choosing a boy or a girl if a couple has had no children.”<sup>7</sup>

Beyond family-level factors, we also believe that attitudes and choices regarding FGC reflect the existence of a coordination game within religious communities. In Egypt, religion is a major identity marker and marriage takes place within, not across, religious groups. Previous scholarly work suggests that harmful social practices, particularly those that seek to control sexual access to women, tend to be self-enforcing conventions maintained by individual’s expectations about marriage market dynamics (Mackie 1996). In such a scenario, practices like FGC in Africa and the Middle East, footbinding in China, and widow suicide in India can persist for decades and longer despite the harm committed against women and girls. In many cases, the social conventions force women into extreme chastity or fidelity displays (Mackie and LeJeune 2009).

Signals of religious commitment — like female circumcision — may also be associated with the costly demands associated with religious group membership (Iannaccone 1992). In the Islamic context, Blaydes and Linzer (2008) argue that Muslim women often face a double-bind when it comes to the perpetuation of patriarchal social norms. By signaling piety through behavior and attitudes, women enjoy better outcomes on the marriage market; demonstrations of more secular beliefs, however, advantage them in the market for high-paying employment. Although attitudes toward gender equality tend to become more favorable with economic and political modernization (Inglehart and Norris 2003), Mackie

---

<sup>5</sup>Adjudicating between these different mechanisms is difficult since multiple factors likely contribute to gender-related attitudes, and probably in combination with one another.

<sup>6</sup>Existence of a “stopping” rule would suggest that women stop having children after having a son, or the desired number of sons.

<sup>7</sup>News24, “Egypt’s Gender Selection,” April 1 2010; See also Yasmine Fathi, “Mad about the Boy: The Growing Gender Selection Trend in Egypt,” *Al-Ahram Online*, May 28 2017 for a discussion about the fact that most couples seeking sex selective IVF typically already have multiple female children and no sons.

(1996) finds that harmful social conventions — like FGC — can actually increase rather than diminish with modernization.

### 3 Variation in FGC by Religious Denomination

While FGC was nearly universal for adult women born in Egypt before 1975, rates of circumcision for cohorts of younger women have declined. This has particularly been the case for Egypt’s Christian community.

#### 3.1 Temporal Trends in FGC, by Religion

Much of what we know about the widespread nature of FGC comes from the Demographic and Health Surveys (DHS), conducted in over 90 countries worldwide, including many where the practice of FGC is common. These nationally-representative household surveys frequently include questions about women’s circumcision status (the DHS refers to cutting as circumcision), attitudes toward female circumcision, and the circumcision status of a woman’s daughters.<sup>8</sup> The DHS also includes the religious affiliation of the woman, for which the categories include Muslim and Christian. The vast majority of Christian Egyptians are Coptic Orthodox (approximately 90 percent) but this category also includes Coptic evangelicals and Protestant denominations (approximately 9 percent) and smaller numbers of Latin, Greek, and Maronite Catholics (less than 1 percent).

Figure 1 charts temporal change in FGC prevalence based on data from the Demographic and Health Surveys conducted in Egypt from 1995 to 2014. Specifically, we run a logistic regression where the respondent’s FGC status is the dependent variable and birth cohort (in five-year increments) is interacted with respondent religion. The figure shows the predicted probability of FGC status by religion and cohort. While Christian women have had slightly lower rates of FGC than Muslim women since the 1950s, there was a decline among Christian women starting from the cohort born in the 1970s that has continued in subsequent cohorts. While the rate is still large (more than 50 percent) in the most recent cohort for which data are available, it has nonetheless dropped substantially and at a much faster rate than it has among Muslim women.

To what extent might these trends be explained by higher levels of education within the Christian community? While DHS data suggest that Christian women born in the 1940s to 1960s were better educated than their Muslim counterparts, this gap began to narrow and both Christians and Muslims now have more than eight years of education on average (see Figure 2). This suggests that even if *initial* differences in FGC rates across Muslim and Christian communities could be explained by differential education levels, Christians have seen much larger drops in FGC prevalence than Muslims after taking into account changes

---

<sup>8</sup>As the focus of the DHS is on reproductive and child health, women of reproductive age (15 to 49 years old) are the primary focus of the surveys, and the most extensive interviews are conducted with women in this age category. However, information is also collected about all household members. Every DHS includes at least a household and women’s questionnaire, and some also include men’s questionnaires. Raw survey data is converted into recode files by MEASURE DHS ICF International, and recode files are available online.

in levels of education. Further, Muslim women experience higher rates of FGC controlling for education.

### 3.2 Explaining Declines among Coptic Christians

Success stories about villages that have seen major reductions in rates of FGC seem to disproportionately come from Christian areas. What explains the relatively rapid decline in FGC among Coptic women over time?<sup>9</sup> Beginning in the 1970s, Coptic private voluntary organizations (PVOs) like the Coptic Evangelical Organization for Social Services (CEOSS) identified FGC — along with early marriage and bridal “deflowering” — as local customs harmful to women (Young 2004).<sup>10</sup> In 1982, CEOSS founded a committee to raise consciousness regarding this issue and in 1995 CEOSS intensified their anti-FGC efforts with the creation of local committees in a select number of villages that brought together village leaders with a priest and local implementing team (Yount 2004).<sup>11</sup> Private voluntary organizations sponsor workshops and educational outreach that have been reported to be highly effective in reducing the popularity of FGC as a practice.<sup>12</sup>

Efforts to reduce the prevalence of FGC by Coptic evangelicals also extend to Coptic Orthodox communities. By 2000, the Bishopric of Public, Ecumenical, and Social Services (BLESS) of the Coptic Orthodox Church had FGC programs operating in 24 communities

---

<sup>9</sup>One possible explanation that we do not interrogate relates to the fact that there are no passages in Coptic scripture that specifically discuss FGC. While there is similarly no mention of female circumcision in the Koran, there do exist *ahādīth* (sing. *hadīth*) — reported sayings or deeds of Prophet Mohammed — which suggest that FGC was practiced in Western Arabia during the Prophet’s time, but that he advised against severe forms of cutting. This particular *hadīth*, however, is believed to be only weakly unauthenticated and, thus, legally unsupportable by the majority of Muslim scholars around the world. The mere existence of this particular *hadīth*, despite its poor pedigree, provides literalists with a religious basis for their support of the practice. Coptic supporters of FGC are not able to rely on any scriptural basis for the practice. Indeed, existing statements by Coptic bishops and other religious leaders emphasize that there are no biblical references to female genital cutting or female circumcision and that most Christians around the world do not engage in the practice, even other Orthodox Christians of the Middle East. The scriptural basis for FGC within the Coptic tradition is a time invariant explanatory factor, however. It is therefore an inadequate explanation for over time change in behavior among Egyptian Copts.

<sup>10</sup>CEOSS was founded in 1952 and reaches about 1.5 million beneficiaries annually (Sullivan 1994, 85). It is headquartered in Minya and is one of Egypt’s largest private voluntary organizations. Christian PVOs in Egypt tend to be highly active on a per capita basis with strong organizational skills and good efficiency when compared to many Islamic PVOs (Sullivan 1994, 91).

<sup>11</sup>Relatively little research has been conducted on the avenues by which international NGOs and transnational Christian organizations may have influenced the attitudes of Coptic Christian elites. In 1994, Yount (2004) estimates that CEOSS received 75% of its funding from Europe, the US and Canada. Cloward (2014) considers the ways that international actors engage in transnational campaigns to promote certain norms which may be thwarted by individuals who misrepresent their behaviors and intentions when they believe that representatives from the international community are observing them. Our research cannot speak directly to these issues. In the context of Egypt, however, previous research has demonstrated the ways that women may misrepresent their daughter’s FGC status and whether they had been forced to have sex by their husbands as a function of whether they were surveyed by a veiled or unveiled survey enumerator (Blaydes and Gillum 2013).

<sup>12</sup>“Proud to be Different,” *Al-Ahram Weekly*, March 7-13 2002; John Lancaster, “Coptic Village Leads The Way Against Female Circumcision,” *Seattle Times*, July 12 1998

(Yount 2004).<sup>13</sup> Recent scholarship has further suggested that the Coptic community has become increasingly centralized and institutionalized around an invigorated Coptic Orthodox Church, aiding the effectiveness of policy change.<sup>14</sup> Greater institutionalization of the Coptic Orthodox Church has combined with the existence of an organized hierarchy within the Coptic community to make it possible for church teachings to trickle down from the Coptic Pope to the bishops, priests, servants (sing: *khādīm*), and parishioners. Coptic nuns, for example, have been seen as playing a vital role in convincing villagers not to circumcise their daughters.<sup>15</sup>

There also exist particularly good channels of communication between Christian women and their religious and community leaders, a factor which may be consequential since women are thought to be key decisionmakers when it comes to FGC. Christian women typically go to the church frequently and are very involved with church activities (Van Doorn-Harder 1995). Part of the reason for this could be related to the status of Copts as a minority group within Egypt. The Coptic Orthodox Church, perhaps out of fear of losing parishioners, encourages women — who tend to have more free time than their husbands — to go to church two to three times a week (e.g., to attend liturgy, Bible study or other church meetings). Dedicated church servants attend even more often (Jeppson 2003, 45). Christian women participate in religious services more often than many of their Muslim counterparts, who are more likely to pray at home than at a mosque.

The upper Egyptian village of Deir el-Barsha is an illustrative case of how FGC rates have been lowered in a particular locale. Deir el-Barsha is an entirely Christian village in Minya governorate with deep roots in the Coptic tradition (Hadi 2006, 111). Deir el-Barsha is the location of long-standing development programs organized by the CEOSS, where a women’s committee helped to organize home visits to promote health education with a goal of reducing rates of FGC, particularly since the early 1990s (Hadi 2006, 114). Research undertaken by the Cairo Institute for Human Rights Studies suggest that “clergy played a crucial role in influencing the decline of practice...in Deir el-Barsha...the commitment of religious leaders not to circumcise their daughters and their public proclamation of this abstention created an atmosphere in which ordinary people felt empowered to follow suit” (Hadi 2006, 121). This would suggest that religious elites played a particularly important role in changing social convention.

This interpretation of norm change within Egypt’s Christian community is consistent with arguments made by Finnemore and Sikkink (1998) regarding the role played by norm leaders as the first movers in any process of communal norm change. Coptic bishops, Protestant priests, and church servants defected from the local norm, risking potential social sanction from their broader communities. But because of the important role of the Christian clergy in defining community standards for appropriate behavior, their commitment to encouraging norm change was mostly followed rather than rejected. Over time, it became increasingly clear that the community — as a whole — was moving in the direction of discouraging

---

<sup>13</sup>Yount (2004) finds that there are important similarities between the mission and implementing strategies of CEOSS and BLESS. The Coptic Organization for Services and Training (COST) and the Jesuit and Frere Association also sought to include anti-FGC messages in their outreach (Abdel-Tawab and Hegazi 2000)

<sup>14</sup>This revival has been led, for the most part, by university-educated clerics who represent the interests of a professionalized middle class (Haddon 2012).

<sup>15</sup>“Egyptian Nun Battles Female Genital Mutilation,” *Agence France Presse*, October 22 2007.

FGC and this sensibility allowed the Christian community to coordinate on a new equilibrium. Consistent with the mechanisms suggested by Cloward (2016), Christian norm leaders were likely influenced by international normative messaging on the undesirable externalities associated with FGC.<sup>16</sup>

### 3.3 Implications of the Islamic Revival for Persistence of FGC

The hierarchical character of the Coptic Orthodox Church contrasts with the relatively diffuse, non-stratified nature of religious organization in Sunni Islam. While Coptic Christian leaders — both Evangelical and Orthodox — have offered a relatively united anti-FGC stance since the 1990s, Sunni Islamic scholars have varied in their views on the practice of FGC (von der Osten-Sacken and Uwer 2007). The viewpoints put forward by religious elites also exist in an environment where women and families are receiving state-sponsored messages about FGC as well as information from circumcision abatement programs sponsored by NGOs.<sup>17</sup>

The heterogeneity of opinion within the community of Muslims on policy issues of all types is a widely accepted feature of Muslim societies. Eickelman and Piscatori (1996, 131) argue that “common to contemporary Muslim politics is a marked fragmentation of authority.” They argue that the “bearers of sacred authority” extend beyond the formal religious establishment to mystical spiritualists and lay preachers who compete with state-sponsored religious elites for social and political influence (Eickelman and Piscatori 1996, 59; 131).<sup>18</sup> Indeed, the bureaucratization of the official religious elite in Egypt has meant that while some clerics provide support for regime policies in their capacity as civil servants, other religious scholars occupy different positions on a broad ideological spectrum (Zeghal 1999). In this context, it is unclear who speaks for Islam when it comes to religious interpretation and authority (Robinson 2009).

Another factor that has made it more challenging to create a unified Muslim position against FGC relates to an increase in religious practice associated with the “Islamic Revival.” Beginning in the 1970s, Egypt — and other countries in the Muslim world — witnessed revival in Islamic practice associated with a regional resurgence in public expressions of religiosity. In many cases, this religious revival was led by lay preachers who operated separately from the traditional religious elite.<sup>19</sup> The Islamic Revival in Egypt has been associated with the growth of social service and charitable organizations and religious study

---

<sup>16</sup>Cloward (2015) argues that the normally high barriers to defecting from local norms are more likely to be overcome when there are non-circumcising groups living nearby and when there are local elites among the group of first movers.

<sup>17</sup>Abdel-Tawab and Hegazi (2000) describe the different modalities used by NGOs to convey their message to women. Virtually all made use of awareness-raising seminars where speakers typically included a doctor, a Muslim cleric or Coptic priest, a social worker as well as, in some cases, a representative of the government.

<sup>18</sup>“Sacred” authority is associated with those who have “justifiable control over a society’s symbolic production” (Eickelman and Piscatori 1996, 58). See Rubin (2017) for more on the deep roots of religious legitimacy in the Middle East and the influence of religious authority on economic development outcomes.

<sup>19</sup>The origins of the Islamic Revival are hotly debated and range from arguments about the failure of Arab nationalism (Ajami 1981) to the influence of Saudi Arabia in the regional culture, to the idea that poverty and slow economic development have provided fertile ground for Islamic fundamentalist beliefs (Kepel 1985) to the Islamic revival as a response to the centralization of state power associated with forms of political modernity (Lapidus 1997). For more on the Saudi connection to the Islamic revival, see Scott Shane, “Saudis and Extremism: ‘Both the Arsonists and the Firefighters,’” *New York Times*, August 25 2016.

circles (Mahmood 2011), in addition to a marked increase in the prevalence of veiling (Patel 2012; Carvalho 2013). More generally, the Islamic Revival has involved the imposition of demanding social norms regarding issues associated with gender and gender-related practices. The increasing religiosity of society also had implications for how Egyptians formed their opinions about FGC.

Taken together, the Islamic Revival and associated fragmentation of religious authority provide the context in which Egyptians remain uncertain about the religious underpinnings of female circumcision as a practice. Indeed, one can find religious edicts on every side of the debate. For example, scholars of Egypt’s Al-Azhar — a leading seat of Islamic theological learning — endorsed the practice in 1951 and 1981 (Abu-Sahlieh 1994). In 1996, however, the Egyptian Minister of Health announced a ban on FGC. This decision came just two years after Cairo hosted the International Conference on Population and Development. During the course of the conference, CNN had broadcast the circumcision of a young girl in Cairo; FGC was widely condemned by women’s health activists in the international community.<sup>20</sup>

The ban on FGC was then challenged in Egyptian courts by a conservative Islamic scholar.<sup>21</sup> In 1997, an Egyptian appeals court ruled in favor of banning the procedure, arguing that it violated existing criminal codes, though the ban was not effectively enforced.<sup>22</sup> Following the 2007 circumcision-related death of a 12-year old girl, the Egyptian Ministry of Health issued a ban on female circumcision; formal legislation criminalizing FGC followed in 2008. Parliamentarians associated with the Muslim Brotherhood strongly objected to the criminalization of the practice during discussions in the Egyptian parliament but the legislation passed over these objections.<sup>23</sup> Observers have suggested, however, that top-down approaches to eliminate the practice have largely been an exercise in futility.<sup>24</sup> In 2012, the Muslim Brotherhood — politically ascendent in the period after the 2011 uprisings but before the 2013 popular-participatory veto coup — advertised low cost circumcision via mobile health units.<sup>25</sup> Although many Islamic scholars in Egypt condemn FGC, Abu-Salieh (2006, 59) argues that the majority maintain that it is an act worthy of merit.

### 3.4 Findings from Greater Cairo Survey

This section has sought to describe broad, population-level patterns in the practice of FGC across Muslim and Christian communities in Egypt. We have shown that while there has been a decline in the prevalence of FGC among younger generations of Muslim women, a much steeper decline has been witnessed within Egypt’s Christian community. Emphasizing the importance of coordination *within* religious communities for impacting social convention

---

<sup>20</sup>Yount (2004) writes that a frenzy of religious interpretation followed this event, which was a turning point in discussion about this issue. See Malstrom (2016) for more details about the debate that emerged in the wake of the CNN broadcast.

<sup>21</sup>Kedar (1994) summarizes the debate within Egypt regarding FGC, discussing both the arguments against FGC including the negative health effects on women as well as the arguments in favor, focused on the medical, aesthetic and moralistic arguments.

<sup>22</sup>“Proud to be Different,” *Al-Ahram Weekly*, March 7-13 2002

<sup>23</sup>Gamal Essam El-Din, “Children Accorded Greater Rights,” *Al-Ahram Weekly*, June 12-18 2008.

<sup>24</sup>John Lancaster, “Village Gives up a Painful Ritual,” *Washington Post*, June 21 1998

<sup>25</sup>Mariz Tadros, “Mutilating Bodies: The Muslim Brotherhood’s Gift to Egyptian Women,” *Open Democracy*, May 24 2012.

change, we provide a narrative account for how Egypt’s Christian community has been relatively effective at encouraging norm change via top-down messaging from elites within the religious community regarding the harms associated with FGC. These efforts have been aided by relatively high levels of centralization within Egyptian church communities and high levels of contact between female parishioners and church leaders. We contrast this situation with the relatively diffuse, non-hierarchical nature of guidance regarding FGC within Egypt’s Sunni Muslim community. While state agents, including state-sponsored religious elites, have largely discouraged the perpetuation of FGC, more conservative clerics and lay Islamist activists have emphasized the merits associated with female circumcision. This heterogeneity of opinion within the Islamic community has made it more difficult for Egyptian Muslims to coordinate around a new social equilibrium that eliminates FGC.

This section reports results from an original survey that explores these issues in greater depth than possible through the Demographic and Health Surveys. The survey was conducted in 2014 in two neighborhoods of Greater Cairo in partnership with the Egyptian office of the Population Council, an international non-profit organization.<sup>26</sup> In each area, all Central Agency for Public Mobilization and Statistics (CAPMAS) Primary Sampling Units (PSUs) were mapped and four were selected for inclusion in the study. We used a neighborhood saturation sampling strategy, in which the survey team canvassed selected PSUs and enrolled eligible and willing women into the study. In total, 410 married women between the ages of 25 and 36 years old with at least one daughter were selected to participate in a face-to-face survey administered to no more than one woman per household.<sup>27</sup> We selected this age range to capture the possibility of changing FGC status for relatively young women; by interviewing married women up to age 35, we believed we may also have the opportunity to interview young mothers who were making choices about their own daughters’ FGC status.

The survey was administered in two adjacent neighborhoods — Shubra al-Kheima and al-Khousus — which are located just north of the Cairo governorate border in Qalyubia governorate. Shubra al-Kheima and al-Khousus were selected for two reasons. First, relatively large numbers of Christians live in this part of Greater Cairo. By surveying women in this area, we were ensured the opportunity to survey enough Christian women to provide a reasonable sample for gauging attitudes. Second, surveying women in this area allowed us to examine variation across rural and urban areas; Shubra al-Kheima is urban while neighboring al-Khousus is more rural with agricultural fields interspersed with smaller villages.<sup>28</sup>

The survey was described as being related to the future of girls and women in Egypt with a particular focus on health and education. In addition to questions about their educational and family background, women were asked a variety of questions about their health, including their FGC status and attitudes toward FGC. We report our findings with a particular emphasis on the difference between Muslim and Christian attitudes (see Table 1). We find that the vast majority of both Coptic Christian and Muslim married women 25-36 year old

---

<sup>26</sup>In addition to the staff at the Population Council, we collaborated with Sepideh Modrek (Stanford, School of Medicine) and Maia Sieverding (UCSF, Global Health Group) on this survey.

<sup>27</sup>All interviews were conducted in Arabic.

<sup>28</sup>In study districts (i.e., Shubra al-Kheima and al-Khousus) average rates of illiteracy are 24 percent, unemployment is at 9.5 percent, and those unmarried are 26 percent. These figures are similar to the national averages across all Egyptian districts. Thus, our sample districts, while not nationally representative, are demographically similar to a national sample on some foundational metrics.

in our Greater Cairo sample have been subjected to FGC (over 96 percent of Muslim women and over 83 percent of Coptic Christian women). These figures look very similar to national trends. FGC took place before the age of 15 for almost all of the women in the sample, most frequently between the ages of 9 and 10. When asked about their daughters, 3 percent of Coptic Christian women already had subjected at least one of their daughters to FGC while this figure was about 14 percent for Muslim women. When asked about intentions for the future, 4 percent of Coptic Christians had planned to undertake FGC for at least one of their daughters, while this figure was 32 percent for Muslim women.

When Muslim and Christian women were queried about the role of government in banning FGC, we find that Christian women are more likely to see the government as having a role in banning FGC.<sup>29</sup> Although this issue requires more investigation, it suggests the possibility that changing norms within a religious community might buttress state-level efforts at criminalizing FGC.

As reported, the vast majority of Christians said that they were not planning to subject their daughters to FGC. Our survey allows us to understand more about the reasons women offered for *why* not. While some Christian women pointed to the fact that it was dangerous for girls, others said that it was illegal or no longer done. Even larger numbers said that they would not circumcise because of religion and because it is was not the right thing to do. For Christian women who said that they would engage in FGC, they most often stated that it was because of customs and traditions that led them to support FGC as a practice.

For Muslim women who already subjected their daughter to FGC, they reported that they had made that decision because of customs and traditions or religion. For those who said that they planned to engage in the practice for their daughters in the future, it was most often because of customs and traditions, religion, or to encourage daughters to be well-behaved. Muslim women who said that they would not engage in the practice for their daughters pointed to the fact that it was dangerous for girls, that it might negatively affect the girl psychologically or sexually, or that it was not the right thing to do. Very few said that they planned *not* to engage in FGC because of religion (particularly in contrast to the Christian trends).

Women were also asked if they believed their religious leaders wanted to end the practice of FGC, a question that speaks directly to the elite-led mechanisms of social change that we have described. While the vast majority of Christian women said that they believed their religious leaders wanted the practice to end, the majority of Muslims believed that this was not at all the case for their religious community (see Figure 3). Indeed, more than 50 percent of Muslim women in our sample said that their religious leaders did not want FGC to end at all. This evidence points to the importance of religious elites in encouraging or discouraging norm change. To explore the implications of a woman's FGC status for her future marriageability, respondents were asked about their preference for a circumcised bride for their male children. For Muslims, about 38 percent answered yes while only 6 percent of Christians answered yes to this question. Muslims and Christians also vary significantly

---

<sup>29</sup>Egypt's experience has raised questions about the efficacy of legal prohibitions as a sufficient disincentive to abate FGC. According to Hassanina and Shaaban (2013), legal prohibitions against FGC in Egypt have not had a major effect on the practice of FGC. This has led analysts to conclude that changing attitudes toward FGC may be of greater influence than changes to the legal environment.

in how they view the implications of FGC as related to women’s behavior and husband preferences.

## 4 Family-level Socialization and Attitudes toward FGC

Overtime trends in aggregate rates of FGC provide information about its persistence in Egypt. Data of this form, however, tells us little about decisionmaking taking place within families as well as variation within religious communities. Families, and mothers in particular, face a variety of constraints and pressures when it comes to a decision of this sort. The decision regarding whether or not to circumcise one’s daughter is one of critical importance, believed to impact the marriageability of girls in a society when economic options outside of marriage are highly limited. In this section we explore the importance of exogenously-determined family structure in determining women’s attitudes toward FGC even after taking into account important individual-level factors.

### 4.1 DHS Data on Attitudes toward FGC

We use data from the nationally-representative 2008 and 2014 Egyptian Demographic and Health Surveys to explore the attitudes toward the continuation of FGC.<sup>30</sup> A first trend to point out is that Muslims, on average, support the continuation of FGC at higher levels than Coptic Christians (see Figure 4).

Our main outcome of interest is a mothers’ belief about whether FGC should continue or not.<sup>31</sup> In this analysis, each woman’s belief appears as a binary variable, 0 if she thinks FGC should be stopped, and 1 if she thinks FGC should be continued.<sup>32</sup> Like existing studies, we hypothesize that having sons invests parents, to some degree, in patriarchal values (e.g., Washington 2008; Shafer and Malhotra 2011; Glynn and Sen 2015). Our key independent variable of interest is the gender of the first-born child. As first-born gender is a dichotomous variable, throughout the analyses we will estimate the effect of having a first-born male. We believe that this variable serves as an exogenous form of variation since sex-selection is rare in Egypt; the prevalence of such a practice would be particularly low for first-born children.

We include a number of covariates in our analysis. The first is the total number of children born to a woman. We also include maternal education — the number of years the respondent has attended school — which has been shown to be highly correlated with a daughter’s FGC status. For example, in a 1990 survey in northern Sudan rates of FGC among eldest daughters was over 60 percent among women with no education, and about

---

<sup>30</sup>Summary statistics for these data are presented in Table 2. Analyzing the impact of first-born gender status on FGC as a behavioral outcomes is more complex as families with daughters may engage in FGC for reasons associated with the marriage market even if they believe the practice should end. See Patel (2012) for more on the marriage market in Muslim societies, like Egypt. As a result, in this study we focus on analyzing attitudes toward the continuation of FGC.

<sup>31</sup>The exact question as read to mothers was the following: “Do you think that the practice of female circumcision should be continued or should it be stopped?”

<sup>32</sup>About 10 percent of respondents replied “don’t know” to this question and are excluded from the analysis.

30 percent among women with secondary school education.<sup>33</sup> We also include an asset-based wealth index created from information collected in the DHS household questionnaire to account for any residual SES effects.

FGC may be seen as a more desirable practice by women who were themselves subjected to FGC. As a result, we include a control variable for a woman’s FGC status. In addition, FGC as a practice has been declining over time in Egypt. To control for time trends in FGC, we include a variable for mother birth year. Finally, we include region fixed effects for four regions with Upper Egypt and Lower Egypt divided into urban and rural areas. This creates a total of six designations, as specified by the DHS: urban governorates, urban Upper Egypt, rural Upper Egypt, urban Lower Egypt, rural Upper Egypt, and frontier governorates.

## 4.2 Empirical Results

We estimate a linear regression model to analyze our dependent variable.<sup>34</sup> Since we are interested in how the effect of first-born gender varies over time and for the two religious groups, we create several samples of older and younger Muslim and Christian women using birth-year cut-points beginning with 1975. Tables 3 and 4 report the main statistical results among older and younger women by religion, using different cutpoints to examine the relationship between first-born sons and attitudes toward FGC over time. We separately analyze Muslims and Christians as we believe that our independent variables may be impacting these populations differentially.<sup>35</sup>

We find that having a first-born male is a significant predictor of mothers’ attitudes toward FGC among older women and is particularly strong among Coptic Christian women (see Table 3). For example, among the cohort of Coptic women born on or before 1980, having a first born son is associated with a more than 6 percentage point increase in support for FGC. The predicted rate of support for FGC is about 24 percent among those without a first-born son, and 30 percent among those with a first born son, holding other covariates at their means. Coptic Christian women have overall lower levels of support for FGC when compared to Muslims, however. Other factors which are associated with higher levels of support for the continuation of FGC include if the woman was herself circumcised and, for Muslim women, her total number of children. Better educated and wealthier women are less likely to support the continuation of FGC.

Among younger women, however, the effect of having a first-born son differs systematically for Muslims and Christians (see Table 4). For younger Muslim women (i.e., those born after 1975), having a first-born son appears to have a negative effect on the belief that FGC should continue. In other words, a male first child is associated with decreased support for the continuation of FGC, a pattern which is reverse of that which appeared in our sample of

---

<sup>33</sup>See Modrek and Liu (2013) for a discussion of the importance of maternal education on predicting attitudes toward FGC.

<sup>34</sup>Our results are substantively the same if we use a logistic regression model.

<sup>35</sup>We also run our analysis with Muslim and Coptic Christian respondents pooled and then interact religion with first-born child gender and find similar results. The main specification includes covariates as outlined above, but results are similar without covariates.

older Muslim women.<sup>36</sup> This suggests a generational change in attitude that became increasingly apparent for women born in the late 1970s and 1980s. Our sample size is considerably smaller for Christian women, however, we continue to observe positive coefficients on having a first-born son. These effects are not statistically significant at conventional levels but do not indicate a reversal in the direction of the effect as we observe between older and younger women who are Muslim. Figure 5 summarizes the coefficient values for these effects.

Together, these results suggest that there was a universal effect of having a first-born son on attitudes toward FGC among older women, and that this effect was especially strong among Christian women. Among younger women, this trend declined or even reversed, primarily among Muslim women who may have come of age during the period of the Islamic Revival in Egypt.

### 4.3 Interpretation

Our results suggest important differences in attitudes toward women and girls in Egypt, dependent upon religious affiliation and generational cohort. Muslims, on average, support the continuation of FGC at higher levels than Christians. While Christians tend to be less favorable toward the continuation of FGC *overall*, our findings suggest that Christians are susceptible to the influence of exogenously-determined child gender triggers in forming attitudes on women’s issues. Christians with first-born sons consistently support more patriarchal social norms than those with first-born daughters. While older Muslim women exhibit greater support for continuing FGC if their first-born child is a son, this trend reverses for younger Muslim women.

These results suggest the existence of at least two forms of patriarchal values within Egypt. Christians appear to be less supportive of norms that harm women and girls — in the aggregate — but more receptive to conservative beliefs when those beliefs are deemed to be consistent with their “interests,” defined as the interests of their first-born child. In other words, messaging from religious leaders appears to have reduced overall levels of support for FGC among Copts, but family-level factors can activate conservative views when it comes to responsibility for controlled female sexuality.<sup>37</sup>

For older Muslim women, first-born gender has a small, positive effect on the belief that FGC should continue but for younger women this trend reverses. Younger Muslim women may be increasingly influenced by forms of religious conservatism which emerged in the 1970s and 1980s in Muslim societies, like Egypt, which tend to see the behaviors of women as key to achieving a moral society. Indeed, Blaydes and Linzer (2008) characterize 46 percent of Muslim women in Egypt as holding fundamentalist beliefs. Such beliefs may be consistent with the high expectations placed on women within conservative social movements, regardless of whether or not they adopt costly markers of commitment.<sup>38</sup>

---

<sup>36</sup>This effect is statistically significant when looking at women born after 1980 and remains of similar magnitude for women born after 1980.

<sup>37</sup>A number of scholars have pointed to the salience of traditional gender roles within Egypt’s Christian community as related to female chastity and sexual identity (e.g., Van Doorn-Harder 1995; Armanios 2002; Jeppson 2003).

<sup>38</sup>See Conrad (2006) for a discussion about US evangelical Christian Promise Keepers who sociologists describe as reconstructing a “Madonna Complex” which applies a strict cultural code of gendered behaviors.

These findings contribute to a large and growing literature on heterogenous attitudes within Middle Eastern communities with regard to the rights and burdens associated with gender.<sup>39</sup> Most notably, Kandiyoti (1988, 283) seeks to unpack the overly monolithic concept of patriarchy by examining the conditions under which economic modernization can lead to an “intensification of traditional modesty markers,” reflecting new forms of female conservatism.<sup>40</sup> The evidence that we have presented further complicates the ways in which religion and family structure in contemporary Egypt interact to construct attitudes and associated gender-related behaviors.

## 5 Conclusions

Female genital cutting is one of a number of practices that harm the interests of girls and women but which societies seem to perpetuate as a result of expectations about others’ behaviors and normative beliefs (Mackie 1996). Mothers and families often support these practices out of a desire to coordinate their activities with others and often become invested a belief system that can bring harm to their female children.

In this paper, we focus on how meso-level factors related to a woman’s family composition and her religious community impact both outcomes and attitudes toward FGC. Analysis at this level provides important insights into the nature of family pressures and religious group expectations that have been largely ignored in an existing literature that has been focused on national and international efforts to reduce FGC, as well as individual-level socioeconomic determinants of FGC status. We show that that Christian women in Egypt have seen a decrease in rates of FGC over time compared to their Muslim counterparts, despite having comparable levels of educational attainment in recent decades. Qualitative evidence suggests that Coptic Christian religious elites played an important role in affecting this change.

We also find that the gender of a woman’s first-born child has an impact on her attitudes toward FGC but that this effect differs across religious groups and by birth cohort. Older women who have a first-born son tend to state their support for the continuation of FGC. We hypothesize that having sons invests mothers, to some degree, in traditional values that impact outcomes for female siblings in the family. For younger women, however, we observe a different impact of first-born child gender on attitudes. Younger Muslim women, many of whom were brought up in a political and religious environment which elevated the moral

---

<sup>39</sup>Changing societal attitudes about the behaviors of women are often also tied up in debates about the nation and the assertion of societal values in a world system dominated by Western countries. Yuval-Davis (1993) considers the relationship between gender and nationalism, in particular the expectation that women will serve as bearers, protectors and transmitters of the traditional values of a national collectivity. In this context, “ordinary” women become markers of cultural and national cohesion in a broader contest between colonial and anti-colonial forces (Winter 2016).

<sup>40</sup>In the Islamic Republic of Iran, for example, women participated in educational, economic and political activities while simultaneously subjected to a state-enforced attempt to engineer a gendered division of labor within families and society (Yeganeh 1993). For the Iranian case, Moallem (2005) also argues that Islamic feminists have sought to assert women’s equality and their right to leadership within the Islamic Republic. Terman (2010) shows how revolutionary discourse encouraged women to enter the public sphere as defenders of Islamic values. This differs from earlier, more traditional patriarchal discourses that limited women’s involvement in the public sphere. She argues that the Iranian Revolution sought to create a female subject who was simultaneously pious and politically active.

role of women as upholders of societal values, tend to support FGC *less* if their first-child is a boy. Younger Coptic Christian women do not follow this same pattern.

Our results have implications for developing more effective policies for combating FGC in the future. First, our findings suggest that religious communities matter for changing attitudes. Religious elites can help facilitate the coordination of a new cultural equilibrium for their communities particularly if marriage markets operate within religious groups as occurs in Egypt. Second, different types of patriarchal beliefs may require different policy interventions in order to be effective. For traditionalists who support FGC more if their formative ideas about parenthood were influenced by the birth of a first-born son, interventions which stress the equality of men and women may be effective in reducing the salience of patriarchal beliefs. For younger Muslim women whose beliefs are influenced by the Islamic Revival in Egypt, however, messaging should seek to humanize the role that women play in promoting a moral society.

## Bibliography

- Abdel-Tawab, Nahla and Sahar Hegazi. 2000. "Critical Analysis of Interventions against FGC in Egypt." FRONTIERS Final Report. Washington, DC: Population Council.
- Abu-Sahlieh, Sami Al-Deeb. 1994. "To Mutilate in the Name of Jehovah or Allah: Legitimization of Male and Female Circumcision." *Med Law*. 13(7-8): 575-622.
- Abu-Sahlieh, Sami Al-Deeb. 2006. "Male and Female Circumcision: The Myth of the Difference." *Female Circumcision: Multicultural Perspectives*. Editor, Rogaia Justafa Abusharaf. Philadelphia: University of Pennsylvania Press.
- Ajami, Fouad. 1981. *The Arab Predicament: Arab Political Thought and Practice Since 1967*. New York, NY: Cambridge University Press.
- Allam, M.F., J. de Irala-Estevez, R. Fernandez-Crehuet Navajas, A. Serrano del Castillo, J.S. Hoashi, M.B. Pankovich and J. Rebollo Liceaga. 2001. "Factors Associated with the Condoning of Female Genital Mutilation among University Students." *Public Health*. 115.
- Armanios, Febe. 2002. "The 'Virtuous Woman:' Images of Gender in Modern Coptic Society." *Middle Eastern Studies*. 38(1): 110-130.
- Assad, Marie. 1980. "Female Circumcision in Egypt: Social Implications, Current Research, and Prospects for Change." *Studies in Family Planning*. 11(1): 3-16.
- Assad, Maurice. 1991. "Mission in the Coptic Orthodox Church: Perspective, Doctrine and Practice." *International Review of Mission*. 80(318). 251-261.
- Bibars, Iman. 2001. *Victims and Heroines: Women, Welfare and the Egyptian State*. London: Zed Books.
- Bicchieri, Cristina. 2006. *The Grammar of Society: The Nature and Dynamics of Social Norms*. New York, NY: Cambridge University Press.
- Bicchieri, Cristina. 2016. *Norms in the Wild: How to Diagnose, Measure, and Change Social Norms*. New York, NY: Oxford University Press.
- Blaydes, Lisa and Drew Linzer. 2008. "The Political Economy of Women's Support for Fundamentalist Islam." *World Politics*. 60(4): 576-609.
- Blaydes, Lisa and Rachel Gillum. 2013. "Religiosity-of-Interviewer Effects: Assessing the Impact of Veiled Enumerators on Survey Response in Egypt." *Politics and Religion*. 6(3).
- Blaydes, Lisa. 2014. "How Does Islamic Local Governance Affect the Lives of Women? A Comparative Study of Two Cairo Neighborhoods." *Governance*. 27(3).
- Boyle, Elizabeth, Fortunata Songora and Gail Foss. 2001. "International Discourse and Local Politics: Anti-Female-Genital-Cutting Laws in Egypt, Tanzania and the United States." *Social Problems*. 48(4).

- Brody, Charles J. and Lala Carr Steelman. 1985. "Sibling Structure and Parental Sex-Typing of Children's Household Tasks." *Journal of Marriage and Family*. 47(2): 265-273.
- Carvalho, Jean-Paul. 2013. "Veiling." *Quarterly Journal of Economics*. 128(1): 337-370.
- Cloward, Karisa. 2014. "False Commitments: Local Misrepresentation and the International Norms Against Female Genital Mutilation and Early Marriage." *International Organization*. 68(3): 495-526.
- Cloward, Karisa. 2015. "Elites, Exit Options, and Social Barriers to Norm Change: The Complex Case of Female Genital Mutilation." *Studies in Comparative International Development*. 50(3): 378-407.
- Cloward, Karisa. 2016. *When Norms Collide: Local Responses to Activism against Female Genital Mutilation and Early Marriage*. New York, NY: Oxford University Press.
- Conrad, Browyn Kara. 2006. "Neo-institutionalism, Social Movements and the Cultural Reproduction of a Mentalité: Promise Keepers Reconstruct the Madonna/Whore Complex." *Sociological Quarterly*. 47(2): 305-331.
- Downey, Douglas, Pamela Braboy Jackson and Brian Powell. 1994. "Sons Versus Daughters: Sex Composition of Children and Maternal Views on Socialization." *Sociological Quarterly*. 35(1): 33-50.
- Eickelman, Dale, and James Piscatori. 1996. *Muslim Politics*. Princeton, NJ: Princeton University Press.
- El-Gibalya, Omaima, Barbara Ibrahim, Barbara S. Mensch, and Wesley Clark. 2002. "The Decline of Female Circumcision in Egypt: Evidence and Interpretation." *Social Science & Medicine*. 54: 205-220.
- El-Kholy, Heba. 2002. *Defiance and Compliance: Negotiating Gender in Low-Income Cairo*. New York: Berghahn Books.
- El-Zanaty, F. and A. Way. 2006. "Female Circumcision." *Egypt Demographic and Health Survey 2005*. Ministry of Health and Population. ORC Macro: Cairo.
- Fearon, James and Anke Hoeffler. 2014. "Benefits and Costs of the Conflict and Violence Targets for the Post-2015 Development Agenda." Copenhagen Concensus Agenda Working paper.
- Finnemore, Martha and Kathryn Sikkink. 1998. "International Norm Dynamics and Political Change." *International Organization*. 52(4): 887-917.
- Glynn, Adam and Maya Sen. 2015. "Identifying Judicial Empathy: Does Having Daughters Cause Judges to Rule for Women's Issues?" *American Journal of Political Science*. 59(1).
- Haddon, Hazel. 2012. "Gender and Identity in Contemporary Coptic Society." Master of Arts Thesis, American University in Cairo.

- Hadi, Amal Abdel. 2006. "A Community of Women Empowered: The Story of Deir El Barsha." *Female Circumcision: Multicultural Perspectives*. Editor, Rogaia Justafa Abusharaf. Philadelphia: University of Pennsylvania Press.
- Harris, Kathleen M. and S. Philip Morgan. 1991. "Fathers, Sons, and Daughters: Differential Paternal Involvement in Parenting." *Journal of Marriage and Family*. 53(3): 531-544.
- Hassanina, Ibrahim and Omar Shaaban. 2013. "Impact of the Complete Ban on Female Genital Cutting on the Attitude of Educated Women from Upper Egypt toward the Practice." *International Journal of Gynecology & Obstetrics*. 120(3): 275-278.
- Hayford, Sarah and Jenny Trinitapoli. 2011. "Religious Differences in Female Genital Cutting: A Case Study from Burkina Faso." *Journal for the Scientific Study of Religion*. 50(2): 252-271.
- Hoodfar, Homa. 1997. *Between Marriage and the Market: Intimate Politics and Survival in Cairo*. Berkeley: University of California Press.
- Iannaccone, Laurence. 1992. "Religious Markets and the Economics of Religion." *Social Compass*. 39(1) 123-131.
- Ibrahim, Saad Eddin. 1996. "The Copts of Egypt." Minority Rights Group International. Ibn Khaldun Center for Development Studies.
- Inglehart, Ronald and Pippa Norris. 2003. *Rising Tide: Gender Equality and Cultural Change Around the World*. New York: Cambridge University Press.
- Ismail, Salwa. 2003. *Rethinking Islamist Politics: Culture, the State and Islamism*. London: I.B. Tauris.
- Ismail, Salwa. 2006. *Political Life in Cairo's New Quarters: Encountering the Everyday State*. Minneapolis: University of Minnesota Press.
- Jeppson, Karolina. 2003. *Gender, Religion and Society: A Study of Women and Convent Life in Coptic Orthodox Egypt*. Master of Arts Thesis, Uppsala University.
- Kandiyoti, Deniz. 1988. "Bargaining with Patriarchy." *Gender and Society*. 2(3): 274-290.
- Katzev, Aphra R., Rebecca L. Warner, and Alan C. Acock. 1994. "Girls or Boys? Relationship of Child Gender to Marital Instability." *Journal of Marriage and the Family*. 56:89-100.
- Kedar, Mordechai. 1994. "Islam and 'Female Circumcision: The Dispute over FGM in the Egyptian Press." *Medicine and Law*. 21:403-418.
- Kepel, Gilles. 1993. *Muslim Extremism in Egypt: The Prophet and the Pharaoh*. Berkeley: University of California Press.
- Kramer, Gudrun and Sabine Schmidtke. 2006. "Religious Authorities in Muslim Societies: A Critical Overview." *Speaking for Islam: Religious Authorities in Muslim Societies*. Editors, Gudrun Kramer and Sabine Schmidtke. Leiden: Brill.

- Lapidus, Ira. 1997. "Islamic Revival and Modernity: The Contemporary Movements and the Historical Paradigms." *Journal of the Economic and Social History of the Orient*. 40(4).
- Mackie, Gerry. 1996. "Ending Footbinding and Infibulation: A Convention Account." *American Sociological Review*. 61(6): 999-1017.
- Mackie, Gerry. 2000. "Female Genital Cutting: The Beginning of the End." In *Female "Circumcision in Africa: Culture, Controversy, and Change*, eds. Betina Shell-Duncan and Ylva Hernlund. London, Lynne Rienner Publishers, Inc., 253-282.
- Mackie, Gerry and John LeJeune. 2009. "Social Dynamics of Abandonment of Harmful Practices: A New Look at the Theory." UNICEF, Special Series on Social Norms and Harmful Practices.
- Mahmood, Saba. 2005. *The Politics of Piety: The Islamic Revival and the Feminist Subject*. Princeton, NJ: Princeton University Press.
- Malstrom, Maria. 2016. *The Politics of Female Circumcision in Egypt: Gender, Sexuality and the Construction of Identity*. London: I.B. Tauris.
- Mernissi, Fatima. 1987. *The Veil and the Male Elite*. Addison-Wesley Publishing Company.
- Moallem, Minoo. 2005. *Between Warrior Brother and Veiled Sister: Islamic Fundamentalism and the Politics of Patriarchy in Iran*. Berkeley: University of California Press.
- Modrek, Sepideh and Jenny Liu. 2013. "Exploration of Pathways Related to the Decline in Female Circumcision in Egypt." *BMC Public Health*. 13: 921.
- Moore, Kirsten, Kate Randolph, Nahid Toubia and Elizabeth Kirberger. 1997. "The Synergistic Relationship between Health and Human Rights: A Case Study using Genital Mutilation." *Health and Human Rights*. 2(2).
- Patel, David. 2012. "Concealing to Reveal: The Changing Informational Role of Islamic Dress." *Rationality and Society*. 24(3): 295-323.
- Robinson, Francis. 2009. "Crisis of Authority: Crisis of Islam?" *Journal of the Royal Asiatic Society*. 19(3): 339-354.
- Rubin, Jared. 2017. *Rulers, Religion, and Riches Why the West Got Rich & the Middle East Did Not*. New York, NY: Cambridge University Press.
- Sedra, Paul. 1999. "Class cleavages and Ethnic Conflict: Coptic Christian Communities in Modern Egyptian Politics." *Islam and Christian-Muslim Relations*. 10(2): 219-235.
- Shafer, Emily Fitzgibbons and Neil Malhotra. 2011. "The Effect of a Child's Sex on Support for Traditional Gender Roles." *Social Forces*. 90(1): 209-222.
- Shell-Duncan, Kathrine Wander, Ylva Hernlund, and Amadou Moreau. 2011. "Dynamics of Change in the Practice of Female Genital Cutting in Senegambia: Testing Predictions of Social Convention Theory." *Social Science and Medicine*. 73(8): 1275-1283.
- Sullivan, Denis. 1994. *Private Voluntary Organizations in Egypt: Islamic Development, Private Initiative and State Control*. Gainesville: University of Florida Press.

- Suzuki, C. and D. Meekers. 2008. "Determinants of Support for Female Genital Cutting among Ever-married women in Egypt." *Global Public Health: An International Journal for Research, Policy and Practice*. 3(4).
- Terman, Rochelle. 2010. "Piety of Public Participation: The Revolutionary Muslim Woman in the Islamic Republic of Iran." *Politics, Religion, and Ideology*. 11(3).
- Toubia, Nahid. F. and Eiman H. Sharief. 2003. "Female Genital Mutilation: Have we Made Progress?" *International Journal of Gynecology and Obstetrics*, 82: 251-261.
- United Nations Children's Fund. 2013. *Female Genital Mutilation/Cutting: A Statistical Overview and Expiration of the Dynamics of Change*. UNICEF, New York.
- Van Doorn-Harder, Pieternella. 1995. *Contemporary Coptic Nuns*. Columbia, SC: University of South Carolina Press.
- Van Raemdonck, An. 2013. "Egyptian Activism against Female Genital Cutting as Cathartic Claiming." *Religion and Gender*. 3(2): 222-239.
- Van Raemdonck, An. 2017. "Female Genital Cutting and the Politics of Islamicate Practices in Egypt: Debating Development and the Religious-Secular Divide." *Afrika Focus*. 30(1): 163-169.
- Von der Osten-Sacken, Thomas and Thomas Uwer. 2007. "Is Female Genital Mutilation an Islamic Problem?" *Middle East Quarterly*. 14(1): 29-36.
- Warner, Rebecca. 1991. "Does the Sex of Your Children Matter? Support for Feminism among Women and Men in the United States and Canada." *Journal of Marriage and Family*. 53(4): 1051-1056.
- Warner, Rebecca and Brent Steel. 1999. "Child Rearing as a Mechanism for Social Change: The Relationship of Child Gender to Parents' Commitment to Gender Equity." *Gender and Society*. 13(4): 503-517.
- Washington, Ebonya. 2008. "Female Socialization: How Daughters Affect Their Legislator Fathers' Voting on Women's Issues." *American Economic Review*. 98(1): 311-332.
- Wickham, Carrie Rosefsky. 2002. *Mobilizing Islam: Religion, Activism, and Political Change in Egypt*. New York: Columbia University Press.
- Wikan, Unni. 1980. *Life Among the Poor in Cairo*. Translated by Ann Henning. London: Tavistock Publications.
- Winter, Bronwyn. 2016. "Women as Cultural Markers/Bearers," *Wiley Blackwell Encyclopedia of Gender and Sexuality Studies*.
- World Health Organization. 2012. "Female Genital Mutilation." Fact sheet no. 241.
- Yeganeh, Nahid. 1993. "Women, Nationalism and Islam in Contemporary Political Discourse in Iran," *Feminist Review*. 44: 3-18.
- Yildirm, A. Kadir. 2019. "The New Guardians of Religion: Islam and Authority in the Middle East." Baker Institute for Public Policy, Rice University.

- Yoder, Stanley P., Nouredine Abderrahim, and Arlinda Zhuzhuni. 2004. "Female Genital Cutting in the Demographic and Health Surveys: A Critical and Comparative Analysis." DHS Comparative Reports No 7. Calverton, Maryland: ORC Macro.
- Yount, Kathryn. 2002. "Like Mother, like Daughter? Female Genital Cutting in Minia, Egypt." *Journal of Health and Social Behavior*. 43(3): 336-358.
- Yount, Kathryn. 2004. "Symbolic Gender Politics, Religious Group Identity, and the Decline in Female Genital Cutting in Minya, Egypt." *Social Forces*. 82(3): 1063-1090.
- Young, Kathryn, Yount. 2005. "Resources, Family Organization, and Domestic Violence Against Married Women in Minya, Egypt." *Journal of Marriage and Family*. 67(3): 579-596.
- Yuval-Davis, Nira. 1993. "Gender and Nation," *Ethnic and Racial Studies*. 16(4): 621-632.
- Zeghal, Malika. 1999. "Religion and Politics in Egypt: The Ulema of Al-Azhar, Radical Islam and the State (1952-94)." *International Journal of Middle East Studies*. 31(3): 371-399.
- Zeidanab, David. 1999. "The Copts — Equal, Protected or Persecuted? The Impact of Islamization on Muslim-Christian Relations in Modern Egypt." *Islam and Christian-Muslim Relations*. 10(1): 53-67.

Table 1: *Summary statistics regarding FGC status and attitudes toward FGC from 2014 Greater Cairo survey, by religion.*

	Muslims	Christians
<i>Respondent circumcised</i>	0.96	0.83
<i>Average age of circumcision</i>	9.86	9.02
<i>At least one daughter circumcised</i>	0.14	0.03
<i>Intend to circumcise at least one daughter</i>	0.32	0.04
<i>Thinks government should have a role in banning FGC</i>	0.26	0.78
<i>Wants son to marry circumcised bride</i>	0.38	0.06
<i>Percent who agree with the following statements:</i>		
— <i>A husband prefers wife to be circumcised</i>	0.37	0.10
— <i>Circumcision prevents adultery</i>	0.26	0.08
— <i>Circumcision makes girls well-behaved</i>	0.44	0.15
Observations	280	130

Table 2: *Summary statistics for DHS 2008 and 2014 Samples, by Religion.*

	Muslims	Christians
<i>Age</i>	33.03	33.75
<i>Total children</i>	2.83	2.59
<i>Years of education</i>	7.66	8.28
<i>% urban</i>	0.42	0.58
<i>% circumcised</i>	0.92	0.80
<i>N</i>	36,589	1,670

Table 3: *Attitudes toward Continuation of FGC among Older Women*

	(1) <b>Continue circumcision</b> <i>Muslim</i> <i>1958-1975</i>	(2) <b>Continue circumcision</b> <i>Muslim</i> <i>1958-1980</i>	(3) <b>Continue circumcision</b> <i>Muslim</i> <i>1958-1985</i>	(4) <b>Continue circumcision</b> <i>Christian</i> <i>1958-1975</i>	(5) <b>Continue circumcision</b> <i>Christian</i> <i>1958-1980</i>	(6) <b>Continue circumcision</b> <i>Christian</i> <i>1958-1985</i>
Firstborn male	0.025*** (0.007)	0.017*** (0.006)	0.009* (0.005)	0.044 (0.035)	0.062** (0.029)	0.063** (0.024)
Total children	0.011*** (0.002)	0.011*** (0.002)	0.012*** (0.002)	-0.000 (0.014)	0.007 (0.012)	0.010 (0.011)
Years of education	-0.013*** (0.001)	-0.013*** (0.001)	-0.013*** (0.001)	-0.006 (0.004)	-0.007** (0.003)	-0.007** (0.003)
Respondent circumcised	0.525*** (0.022)	0.517*** (0.018)	0.521*** (0.015)	0.235*** (0.032)	0.235*** (0.028)	0.227*** (0.024)
Birth year	0.002* (0.001)	0.001 (0.001)	0.001 (0.000)	-0.001 (0.005)	0.002 (0.003)	0.001 (0.002)
Wealth	-0.044*** (0.004)	-0.040*** (0.004)	-0.040*** (0.003)	-0.060*** (0.022)	-0.042** (0.019)	-0.035** (0.016)
Constant	-3.329* (1.870)	-1.163 (1.248)	-0.990 (0.947)	1.796 (9.068)	-4.426 (5.168)	-1.227 (3.808)
N	11766	17205	22965	585	851	1119
R <sup>2</sup>	0.228	0.221	0.223	0.118	0.118	0.121
Mean FGC support (DV)	0.71	0.70	0.69	0.27	0.28	0.26

*Notes:* The dependent variable is attitudes toward the continuation of FGC. All models include region fixed effects. Standard errors are clustered by survey cluster. \*\*\* p<0.01; \*\* p<0.05; \* p<0.10.

Table 4: *Attitudes toward Continuation of FGC among Younger Women*

	(1) <b>Continue circumcision</b> <i>Muslim</i> <i>1975-1999</i>	(2) <b>Continue circumcision</b> <i>Muslim</i> <i>1980-1999</i>	(3) <b>Continue circumcision</b> <i>Christian</i> <i>1975-1999</i>	(4) <b>Continue circumcision</b> <i>Christian</i> <i>1980-1999</i>
Firstborn male	-0.011* (0.006)	-0.014* (0.008)	0.041 (0.026)	0.015 (0.031)
Total children	0.012*** (0.003)	0.014*** (0.004)	0.042** (0.018)	0.033 (0.023)
Years of education	-0.012*** (0.001)	-0.012*** (0.001)	-0.009*** (0.004)	-0.008* (0.004)
Respondent circumcised	0.516*** (0.013)	0.522*** (0.014)	0.214*** (0.028)	0.208*** (0.032)
Birth year	0.003*** (0.001)	0.005*** (0.001)	0.005 (0.004)	0.009 (0.006)
Wealth	-0.037*** (0.004)	-0.038*** (0.004)	-0.026 (0.018)	-0.038* (0.021)
Constant	-4.780*** (1.613)	-9.827*** (2.477)	-9.668 (7.545)	-17.205 (12.867)
N	17984	12545	811	545
R <sup>2</sup>	0.224	0.232	0.145	0.148
Mean FGC support (DV)	0.66	0.65	0.23	0.21

*Notes:* The dependent variable is attitudes toward the continuation of FGC. All models include region fixed effects. Standard errors are clustered by survey cluster. \*\*\* p<0.01; \*\* p<0.05; \* p<0.10.

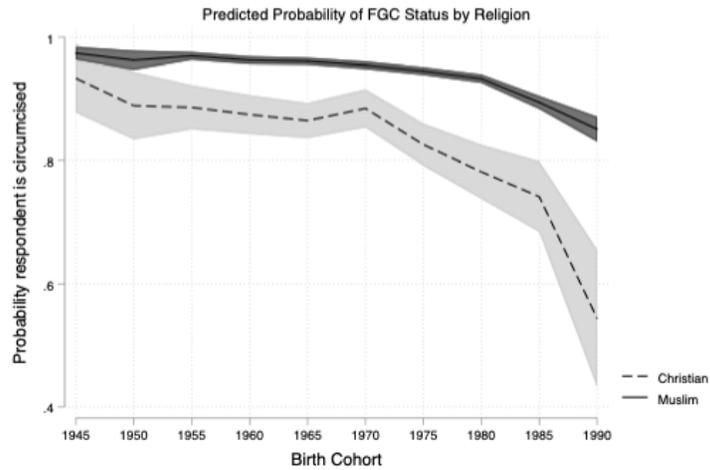


Figure 1: *Predicted values of female genital cutting for Christian (dotted line) and Muslim (solid line) women in Egypt across five-year birth cohorts beginning in 1945. Data drawn from DHS respondents about their own FGC status. Includes surveys from 1995, 2005, 2008, and 2014 with 71,928 respondents.*

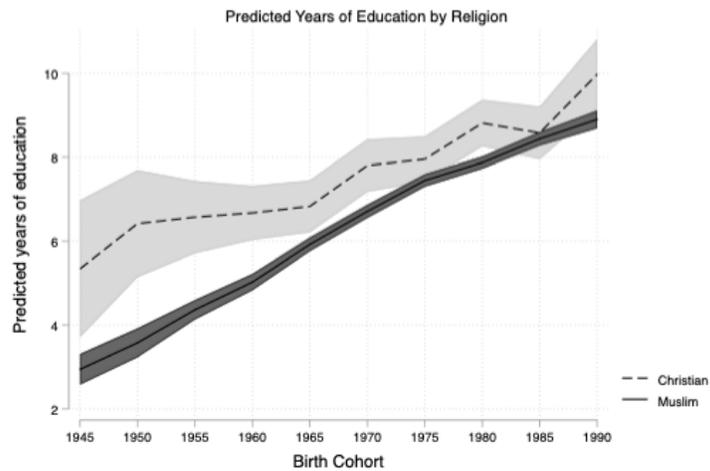


Figure 2: *Predicted years of education for Christian (dotted line) and Muslim (solid line) women in Egypt across five-year birth cohorts beginning in 1945. Data drawn from DHS respondents about their own FGC status. Includes surveys from 1995, 2005, 2008, and 2014 with 72,470 respondents.*

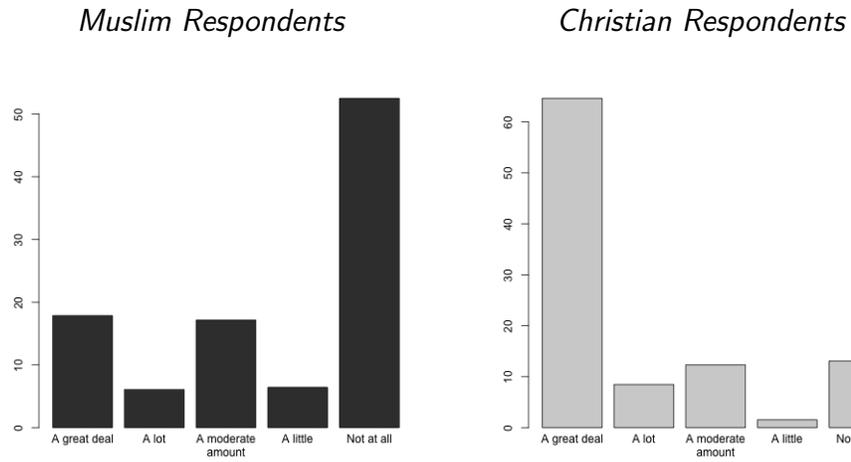


Figure 3: *Survey Respondent Beliefs that Religious Leaders want to End the Practice of FGC, by Religion. Data drawn from 2014 Greater Cairo survey.*

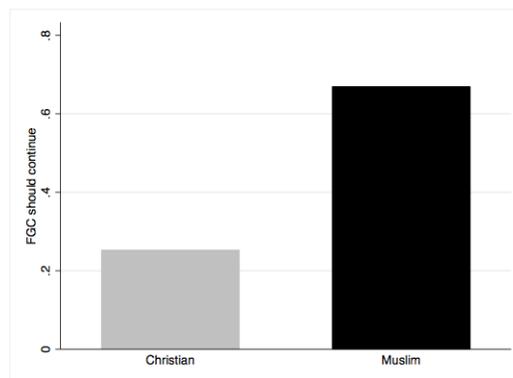


Figure 4: *Percent of DHS respondents (2008 and 2014 samples) who believe FGC should be continued.*

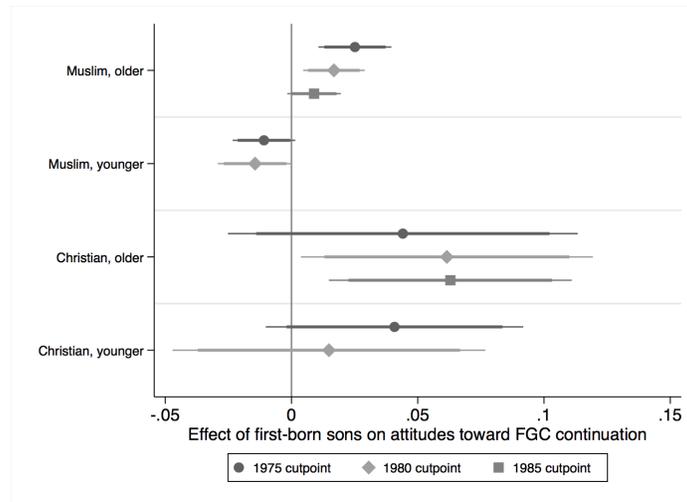


Figure 5: *Coefficient values for Effect of First-Born Son on Attitudes toward FGC by Religion and Birth Cohort.*