The Association of Women’s Empowerment with Stillbirths in Nepal

Abhishek Gurung1 · Kiran Bajracharya2 · Rejina Gurung1 · Shyam Sundar Budhathoki1,3 · Naresh Pratap KC1,4 · Parashu Ram Shrestha5 · Ashish KC6

Published online: 29 November 2019 © The Author(s) 2019

Abstract
Introduction  Globally, 2.6 million stillbirths occur each year. Empowering women can improve their overall reproductive health and help reduce stillbirths. Women empowerment has been defined as women’s ability to make choices in economic decision-making, household and health care decision-making. In this paper, we aimed to evaluate if women’s empowerment is associated with stillbirths.

Methods  Data from 2016 Nepal Demographic Health Surveys (NDHS) were analysed to evaluate the association between women’s empowerment and stillbirths. Equiplots were generated to assess the distribution of stillbirths by wealth quintile, place of residence and level of maternal education using data from NHDS 1996, 2001, 2006, 2011 and 2016 data. For the association of women empowerment factors and stillbirths, univariate and multivariate analyses were conducted.

Results  A total of 88 stillbirths were reported during the survey. Univariate analysis showed age of mother, education of mother, age of husband, wealth index, head of household, decision on healthcare and decision on household purchases had significant association with stillbirths (p < 0.05). In multivariate analysis, only maternal age 35 years and above was significant (aOR 2.42; 1.22–4.80). Education of mother (aOR 1.48; 0.94–2.33), age of husband (aOR 1.54; 0.86–2.76), household head (aOR 1.51; 0.88–2.59), poor wealth index (aOR 1.62; 0.98–2.68), middle wealth index (aOR 1.37; 0.76–2.47), decision making for healthcare (aOR 1.36; 0.84–2.21) and household purchases (aOR 1.01; 0.61–1.66) had no any significant association with stillbirths.

Conclusions  There are various factors linked with stillbirths. It is important to track stillbirths to improve health outcomes of mothers and newborn. Further studies are necessary to analyse women empowerment factors to understand the linkages between empowerment and stillbirths.

Keywords  Women’s empowerment · Women’s autonomy · Stillbirths · Nepal

Ashish KC
aaashis7@yahoo.com
Abhishek Gurung
grg.avee@gmail.com
Kiran Bajracharya
kiran_baj54@yahoo.com
Rejina Gurung
rejugrg@hotmail.com
Shyam Sundar Budhathoki
ss.budhathoki@gmail.com
Naresh Pratap KC
npkc@hotmail.com
Parashu Ram Shrestha
parashuram.shrestha@gmail.com

1 Golden Community, Lalitpur, Nepal
2 Midwifery Society of Nepal, Kathmandu, Nepal
3 School of Public Health and Community Medicine, B.P Koirala Institute of Health Sciences, Dharan, Nepal
4 Society of Public Health Physicians Nepal, Kathmandu, Nepal
5 Ministry of Health and Population, Government of Nepal, Kathmandu, Nepal
6 Department of Women’s and Children’s Health, International Maternal and Child Health, University Hospital, 751 85 Uppsala, Sweden
Abbreviation
ANC  Antenatal care
CSA  Complex sample analysis
ENAP  Every newborn action plan
LMIC  Low and middle-income countries
NDHS  Nepal demographic and health survey
aOR  Adjusted odds ratio

Significance
This paper used data from the Nepal Demographic and Health Survey 2016 to assess the association between women’s empowerment and stillbirths in Nepal. We reported no any significant association for empowerment factors with stillbirth. However, it will be important to conduct large-scale surveys to determine the associations between women empowerment factors and stillbirths.

Introduction
Every year, around 2.6 million stillbirths occur worldwide, with 98% occurring primarily in low and middle-income countries (LMICs) (Blencowe et al. 2016). World Health Organization (WHO) defines stillbirths as no signs of life in babies at or after 28 weeks of gestation (World Health Organization 2014). Most stillbirths in LMICs are intrapartum and cause profound damage and grief (Roberts et al. 2012). In South Asia, 59% of stillbirths occur in the intrapartum period (Lawn et al. 2016).

Stillbirths cause many women significant distress, potentially resulting in mental health issues (Roberts et al. 2012). In some societies, having a stillbirth can lead to abuse and even abandonment by husbands (Kiguli et al. 2016; Roberts et al. 2012). Poorer women are already at a disadvantage as they suffer more stillbirths than women who are from well-off backgrounds (Flenady et al. 2011). This is probably due, at least in part, to less access to prenatal care (KC et al. 2016). Additional risk factors for stillbirths include previous stillbirths (Aminu et al. 2014) and advanced maternal age, specifically being above 35 years of age (Flenady et al. 2011).

Women who are economically active play a more direct role in household decision-making and therefore have better bargaining power in terms of education and access to health care (Mainuddin et al. 2015). Mother’s level of education also plays an important role in health care utilisation (Chakraborty et al. 2003). While several studies have looked at women’s empowerment and pregnancy-related outcomes, none have looked at the association between empowerment and stillbirths as a primary outcome. We aimed at evaluating the association between women’s empowerment, socioeconomic status and stillbirths in Nepal to provide an overview of possible links between empowerment factors and stillbirths.

Methods
The study is based on data from the 2016 Nepal Demographic and Health Survey (NDHS) (Ministry of Health 2017).

Data Collection
The NDHS is a cross-sectional survey conducted every 5 years in Nepal and many other countries. The 2016 survey used simple stratified sampling with two stages in rural areas and three stages in urban areas yielding 14 sampling strata. A total of 12,862 women aged 15–49 were interviewed during the survey. Among them, 5086 pregnancies were beyond 7 months’ gestation. The response rate to interview was 98%.

Data Management
The primary dataset was downloaded from the DHS website after providing a summary of the research project to MEASURE DHS. All indices linked to empowerment were selected for further analysis. Indices of women empowerment were based on three broad dimensions (1) economic Decision-making to purchase household items, (2) decision-making for seeking health care and (3) decision-making on physical mobility to visit relatives (Hameed et al. 2014). The variables extracted from the dataset were: maternal age, maternal level of education (with uneducated referring no formal education), husband’s age, husband’s occupation, wealth (defined by household asset score categorized by centile), sex of household head, place of residence (urban or rural), ecological zone and women’s autonomy (defined by decision making ability related to health care, household purchases and visiting relatives).

Data Analysis
The datasets were weighted before performing analysis. Similarly, the sample domain and cluster design were also addressed creating a complex sample analysis (CSA) plan before performing the analysis. The socio-demographic and empowerment characteristics were analysed for stillbirths using binary logistic regression. Only the indicators that could have a considerable impact on women’s positions in their families, and that could have a direct or indirect impact on pregnancy outcomes were chosen. The association was considered significant for p-value < 0.05. Any missing values were excluded from analysis. Multiple regression analysis
was done for the variables that were significant in univariate analyses. All analyses were carried out in SPSS version 23.

Equity data analysis was also carried out using ‘equiplots’ to analyse inequalities between different socioeconomic groups, geographical strata and education levels based on data from the NDHS 1996, 2001, 2006, 2011 and 2016. This allowed for the presentation of equality gaps between different strata.

Results

A total of 12, 862 women were interviewed during the NDHS survey. Among them, 88 stillbirths were reported. In univariate analysis, socio-demographic factors such as age of mother, education of mother, age of husband, wealth index, all showed significant association with stillbirths (p < 0.05). Similarly, empowerment factors such as head of household, decision on healthcare and decision on household purchases also showed significant association with stillbirths (p < 0.05) (Table 1). The women with reported higher rates of stillbirths were from urban areas and the Terai (plains) region and having less education regardless of wealth status. Disparities in stillbirth rates were found between women by level of education, wealth index and place of residence though decreasing over the years. The equiplots were generated based on the data from NDHS 1996, 2001, 2006, 2011 and 2016 (Fig. 1).

The variables that were significant in the univariate analyses were used in the multivariate analysis. Only age of mother was significant in the multivariate analysis. In mothers aged 35 years and above, the risk of stillbirths was 2.42 times (aOR 2.42; 1.22–4.80) in comparison to mothers aged less than 35 years. Multivariate analysis showed socio-demographic factors such as education of mother (aOR 1.48; 0.94–2.33), age of husband (aOR 1.54; 0.86–2.76), household head (aOR 1.51; 0.88–2.59), poor wealth index (aOR 1.62; 0.98–2.68) and middle wealth index (aOR 1.37; 0.76–2.47) had no any significant association with stillbirths. Further, empowerment factors such as decision making for healthcare (aOR 1.36; 0.84–2.21) and household purchases (aOR 1.01; 0.61–1.66) had no significant association with stillbirths (Table 2).

Discussion

The study describes the socio-demographic and empowerment factors associated with stillbirths based on the NDHS 2016 data. Disparities in stillbirth rates were found between women by level of education, improving socioeconomic status and more people living in urban areas could be the reason why the disparity is decreasing over the years as reported by the NDHS report (Ministry of Health 2017).

The study analysed empowerment related factors for stillbirths. Findings showed that the risk of stillbirth was significant for mothers aged 35 years and above. Waldenström et al. based on a population-based registry in Sweden, have found that advanced maternal age is a risk factor for stillbirth, especially for first time mothers (Waldenström et al. 2015). It has also been corroborated by a meta-analysis which mentioned that women aged 35 years and more contributed to stillbirth (Flenady et al. 2011). Similar findings have been reported from other studies (Aminu et al. 2014; KC et al. 2016; Lawn et al. 2016; Yudkin et al. 1987).

Education has an important role to play in determining a woman’s status in their families and society and for improving communication between husbands and wives (Furuta and Salway 2006). However, educational status of mother had no significant association with stillbirths in our study because there are many other factors impacting fertility outcomes (Shimamoto and Gipson 2015). Education alone is not enough for a woman to determine her fertility choices (Woldemicael 2009). However, a study conducted in a tertiary hospital by KC et al. found that women with < 5 years of education had a significant association with antepartum stillbirths (KC et al. 2015). A systematic literature reviews also showed similar findings (Aminu et al. 2014).

Women from any wealth group or women being the household head had no any association with stillbirths in our study. A Canadian study also found no linkages between socioeconomic status and adverse pregnancy outcomes citing minimal impact (Campbell et al. 2018). However, another cohort study conducted in Australia showed that low socioeconomic status was with stillbirths (Davies-Tuck et al. 2017). A Zambian verbal autopsy study also corroborated the finding though they included mortalities for all children under the age of two (Turnbull et al. 2011). Heading the household can positively impact women’s health, including stillbirth prevention, though they recommend that further studies are necessary to understand the associations (De Bernis et al. 2016). Women are generally gaining more autonomy, and autonomy is an important predictor of reproductive health status in developing countries like Nepal (Rahman 2012). A recent study conducted in Ethiopia found that women from a wealthy background were less likely to have stillbirths (Lakew et al. 2017). Other studies have also found similar linkages for wealth status and stillbirths (Aminu et al. 2014; KC et al. 2016; Kwagala et al. 2016).

Women with better decision making for healthcare and household purchases had no any significant association with stillbirths in our study. A study conducted in Nigeria found that empowered women had more possibility of delivering in a health facility and seeking safer birth
practices, however numbers varied across country (Corroon et al. 2014). Further, joint decision-making during pregnancy and childbirth means better reproductive health outcomes for women (Story and Burgard 2012). A study by Fotso et al. demonstrated similar findings (Fotso et al. 2009). Furthermore, women’s fertility choices may be limited if their husbands and mothers-in-law (Woldemicael 2009) control or disapprove of their actions, irrespective of a woman’s educational status. A Bangladesh study concluded that there are negative aspects related to seeking
antenatal care and health services if the decision is made by the husband only (Story and Burgard 2012). Thus, efforts should focus on involving male partner more in seeking and obtaining maternal health services.

This study has several limitations. It is based on the analysis of secondary data—the 2016 NDHS. The NDHS is an interviewer-administered survey, which can result in social interest bias, with interviewees being reluctant to reveal sensitive information like intimate partner violence and other pregnancy outcomes (Zakar et al. 2015). Also, the NDHS women’s questionnaires only had a single category and did not categorize stillbirths into antepartum and intrapartum stillbirths, so the association of women’s empowerment with different types of stillbirths cannot be analysed. There might also have been bias in the reporting of stillbirths due to the retrospective nature of the interviews. Also, there could have been recall bias leading to fewer reported cases from mothers; and misclassification bias due to interviewers diagnosing deaths based on mothers’ reports.

The DHS stillbirth figures are based on retrospective pregnancy histories over the previous 5 years and may be inaccurate. Further, there is very little research on stillbirth and policy level implications are also scarce (McClure et al. 2009). It is also important to consider verbal autopsies with mothers who have stillbirths to get a better perspective on the causes. Even with DHS being conducted in many countries, no verbal autopsies were done in the last 5 years irrespective of the recommendations (Lawn et al. 2010, 2011). Having said that, DHS data are the largest source of national level data from LMICs (Lawn et al. 2010) with very little availability of national level estimates (Lawn et al. 2011), this will add to the literature.

Under the Every Newborn Action Plan (ENAP), Nepal aims to reduce stillbirths to 12 or less per 1000 births by 2030. However, the focus so far has been largely on reducing newborn deaths rather than stillbirths. Our findings showed no any significant associations for women empowerment factors related to stillbirths. Having said that, the need is to include better counting measures for tracking stillbirths (Stanton et al. 2006). Since, stillbirths are related to maternal and newborn mortalities, it will be crucial to reduce the numbers for better survival of mothers and newborn (McClure et al. 2007). Large scale studies aimed at understanding the linkages between empowerment and stillbirths are necessary.
Table 2 Multivariate analysis of empowerment factors associated with stillbirth (n=9904)

| Variables                | β—coefficient | p-value | AOR (95% CI) |
|--------------------------|----------------|---------|--------------|
| Age of mother            |                |         |              |
| < 35 years               | 0.884          | 0.011   | 2.42 (1.22–4.80) |
| ≥ 35 years               | Ref            |         |              |
| Education of mother      |                |         |              |
| Educated                 | 0.393          | 0.090   | 1.48 (0.94–2.33) |
| Uneducated               | Ref            |         |              |
| Age of husband           |                |         |              |
| ≥ 40 years               | 0.430          | 0.149   | 1.54 (0.86–2.76) |
| < 40 years               | Ref            |         |              |
| Household head           |                |         |              |
| Female                   | 0.412          | 0.135   | 1.51 (0.88–2.59) |
| Male                     | Ref            |         |              |
| Wealth index             |                |         |              |
| Rich                     | 0.482          | 0.062   | 1.62 (0.98–2.68) |
| Poor                     | Ref            |         |              |
| Middle                   | 0.314          | 0.296   | 1.37 (0.76–2.47) |
| Decision for healthcare  |                |         |              |
| Husband and wife together| 0.309          | 0.212   | 1.36 (0.84–2.21) |
| Husband alone            | Ref            |         |              |
| Decision for household purchases | 0.006 | 0.983 | 1.01 (0.61–1.66) |

Acknowledgements Open access funding provided by Uppsala University. The research team would like to thank Viktoria Nelin and Professor Andreas Mårtensson (Uppsala University, Sweden) for reviewing the manuscript. We are equally thankful to DHS Program and ICF International for providing the data for analysis. We would like to thank English editor Stephen J Keeling for the English editing.

Author Contributions AKC conceptualized the manuscript. AG generated the data from DHS and wrote the first draft of the manuscript. SSB reviewed the manuscript. We declare that no funding support was provided for this study.

Funding We declare that no funding support was provided for this study.

Compliance with Ethical Standards

Conflict of interest There was no conflict of interest in the carrying out of the study or the production of this paper.

Ethical Approval The NDHS received prior ethical approval from the Nepal Health Research Council (NHRC). Verbal consents were received from DHS interviewees. Approval was also taken from Measure ICF to use the data for this study.

Open Access This article is distributed under the terms of the Creative Commons Attribution 4.0 International License (http://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made.

References

Aminu, M., Unkels, R., Mdege, M., Utz, B., Adaji, S., & van den Broek, N. (2014). Causes of and factors associated with stillbirth in low- and middle-income countries: A systematic literature review. BJOG: An International Journal of Obstetrics and Gynaecology. https://doi.org/10.1111/1471-0528.12995.

Blencowe, H., Coussens, S., Jassir, F. B., Say, L., Chou, D., Mathers, C., et al. (2016). National, regional, and worldwide estimates of stillbirth rates in 2015, with trends from 2000: A systematic analysis. The Lancet Global Health, 4(2), e98–e108. https://doi.org/10.1016/S2214-109X(15)00275-2.

Campbell, E. E., Gilliland, J., Dworatzek, P. D. N., De Vrijer, B., Aminu, M., Unkels, R., Mdegela, M., Utz, B., Adaji, S., & van den Broek, N. (2014). The role of gender empowerment on reproductive health outcomes in urban Nigeria. Reproductive Health Journal, 18(1), 307–315. https://doi.org/10.1007/s10995-013-1266-1.

Davies-Tuck, M. L., Davey, M. A., & Wallace, E. M. (2017). Maternal region of birth and stillbirth in Victoria, Australia 2000–2011: A retrospective cohort study of Victorian perinatal data. PLoS ONE, https://doi.org/10.1371/journal.pone.0178727.

De Bernis, L., Kinney, M. V., Stones, W., Ten Hoope-Bender, P., Vivio, D., Leisher, S. H., et al. (2016). Stillbirths: Ending preventable deaths by 2030. The Lancet, 387(10019), 703–716. https://doi.org/10.1016/S0140-6736(15)00954-X.

Flendy, V., Koopmans, L., Middleton, P., Froen, J. F., Smith, G. C., Gibbons, K., et al. (2011). Major risk factors for stillbirth in high-income countries: A systematic review and meta-analysis. The Lancet. https://doi.org/10.1016/S0140-6736(10)62233-7.

Fosito, J. C., Ezeh, A. C., & Essendi, H. (2009). Maternal and Child Health in rural Bangladesh. Health Promotion International. https://doi.org/10.1093/heapro/dag414.

Corroon, M., Speizer, I. S., Fosito, J. C., Akiode, A., Saad, A., Calhoun, L., et al. (2014). The role of gender empowerment on reproductive health outcomes in urban Nigeria. Maternal and Child Health Journal, 18(1), 307–315. https://doi.org/10.1007/s10995-013-1266-1.

PLOS ONE, https://doi.org/10.1371/journal.pone.0178727.

De Bernis, L., Kinney, M. V., Stones, W., Ten Hoope-Bender, P., Vivio, D., Leisher, S. H., et al. (2016). Stillbirths: Ending preventable deaths by 2030. The Lancet, 387(10019), 703–716. https://doi.org/10.1016/S0140-6736(15)00954-X.

Fosito, J. C., Ezeh, A. C., & Essendi, H. (2009). Maternal and Child Health in rural Bangladesh. Health Promotion International. https://doi.org/10.1093/heapro/dag414.
KC, A., Nelin, V., Wrammert, J., Ewald, U., Vittrakoti, R., Baral, G. N., et al. (2015). Risk factors for antepartum stillbirth: A case-control study in Nepal. *BMC Pregnancy and Childbirth*. https://doi.org/10.1186/s12884-015-0567-3.

KC, A., Wrammert, J., Ewald, U., Clark, R. B., Gautam, J., Baral, G., et al. (2016). Incidence of intrapartum stillbirth and associated risk factors in tertiary care setting of Nepal: A case-control study. *Reproductive Health*. https://doi.org/10.1186/s12978-016-0226-9.

Kiguli, J., Munabi, I. G., Ssegujja, E., Nabaliisa, J., Kabonesa, C., Kiguli, A., Wrammert, J., Ewald, U., Vitrakoti, R., Baral, G., Lakew, D., Tesfaye, D., & Mekonnen, H. (2017). Determinants of stillbirths in sub-Saharan Africa: Unspoken grief. *The Lancet*. https://doi.org/10.1016/S0140-6736(15)01171-X.

Kwagala, A., Nankinga, O., Wandera, S. O., Nduuga, P., & Kabagenyi, A. (2016). Empowerment, intimate partner violence and skilled birth attendance among women in rural Uganda. *Reproductive Health*. https://doi.org/10.1186/s12978-016-0167-3.

Lakew, D., Tesfaye, D., & Mekonnen, H. (2017). Determinants of stillbirth among women delivering at Amhara region, Ethiopia. *BMC Pregnancy and Childbirth*. https://doi.org/10.1186/s12884-016-0591-3.

Lawn, J. E., Blencowe, H., Pattinson, R., Cousens, S., Kumar, R., Ibieuxle, I., et al. (2011). Stillbirths: Where? When? Why? How to make the data count? *The Lancet*. https://doi.org/10.1016/S0140-6736(10)62187-3.

Lawn, J. E., Blencowe, H., Waiswa, P., Amouzou, A., Mathers, C., Hogan, D., et al. (2016). Stillbirths: Rates, risk factors, and acceleration towards 2030. *The Lancet*. https://doi.org/10.1016/S0140-6736(15)00837-5.

Lawn, J. E., Gravett, M. G., Nunes, T. M., Rubens, C. E., & Stanton, C. (2010). Global report on preterm birth and stillbirth (1 of 7): Definitions, description of the burden and opportunities to improve data. *BMC Pregnancy and Childbirth*. https://doi.org/10.1186/1471-2393-11-S1.

Mainuddin, A., Ara Begum, H., Rawal, L. B., Islam, A., & Shariful Islam, S. M. (2015). Women empowerment and its relation with health seeking behavior in Bangladesh. *Journal of Family & Reproductive Health*, 9(2), 65–73.

McClure, E. M., Goldenberg, R. L., & Bann, C. M. (2007). Maternal mortality, stillbirth and measures of obstetric care in developing and developed countries. *International Journal of Gynecology and Obstetrics*, 96(2), 139–146. https://doi.org/10.1016/j.ijgo.2006.10.010.

McClure, E. M., Saleem, S., Pasha, O., & Goldenberg, R. L. (2009). Stillbirth in developing countries: A review of causes, risk factors and prevention strategies. *Journal of Maternal-Fetal and Neonatal Medicine*. https://doi.org/10.1080/14767050802559129.

Ministry of Health, & New Era. (2017). Nepal Demographic and Health Survey 2016. Kathmandu.

Rahman, M. (2012). Women’s autonomy and unintended pregnancy among currently pregnant women in Bangladesh. *Maternal and Child Health Journal*. https://doi.org/10.1007/s10995-011-0897-3.

Roberts, L., Anderson, B., Lee, J., & Montgomery, S. (2012). Grief and women: Stillbirth in the Social Context of India. *International Journal of Childbirth*. https://doi.org/10.1891/2156-5287.2.3.187.

Shimamoto, K., & Gipson, J. D. (2015). The relationship of women’s status and empowerment with skilled birth attendant use in Senegal and Tanzania. *BMC Pregnancy and Childbirth*. https://doi.org/10.1186/s12884-015-0591-3.

Stanton, C., Lawn, J. E., Rahman, H., Wilczynska-Ketende, K., & Hill, K. (2006). Stillbirth rates: Delivering estimates in 190 countries. *Lancet*, 367(9521), 1487–1494. https://doi.org/10.1016/S0140-6736(06)68586-3.

Story, W. T., & Burgard, S. A. (2012). Couples’ reports of household decision-making and the utilization of maternal health services in Bangladesh. *Social Science and Medicine*. https://doi.org/10.1016/j.socscimed.2012.09.017.

Turnbull, E., Lembalembo, M. K., Brad Guffey, M., Bolton-Moore, C., Mubiana-Mbewe, M., Chintu, N., et al. (2011). Causes of stillbirth, neonatal death and early childhood death in rural Zambia by verbal autopsy assessments. *Tropical Medicine & International Health*, 16(7), 894–901. https://doi.org/10.1111/j.1365-3156.2011.02776.x.

Waldenström, U., Cnattingius, S., Norman, M., & Schytt, E. (2015). Advanced Maternal age and stillbirth risk in nulliparous and parous women. *Obstetrics and Gynecology*, 126(2), 355–362. https://doi.org/10.1097/AOG.0000000000000947.

Woldenicael, G. (2009). Women’s autonomy and reproductive preferences in Eritrea. *Journal of Biosocial Science*. https://doi.org/10.1017/S0021932008003040.

World Health Organization. (2014). Every Newborn Action Plan. Geneva.

Yudkin, P. L., Wood, L., & Redman, C. W. G. (1987). Risk of unexplained stillbirth at different gestational ages. *The Lancet*, 329(8543), 1192–1194. https://doi.org/10.1016/j.socscimed.2012.09.017.

Zakar, R., Nasrullah, M., Zakar, M. Z., & Ali, H. (2015). The association of intimate partner violence with unintended pregnancy and pregnancy loss in Pakistan. *International Journal of Gynecology & Obstetrics*, 133(1), 26–31. https://doi.org/10.1016/j.ijgo.2015.09.009.

**Publisher’s Note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.