Appendix 1. Survey of Obstetrics-Gynecology (Ob-Gyn) Physicians Regarding Vaccination

| • | 4 | | | |
|----|-----|-----|-----|----|
| In | str | 11C | 116 | ns |

- ➤ Please answer the following questions with respect to your <u>primary site of outpatient practice</u>. If you practice at more than one outpatient site, please respond to this survey for the site at which you spend the most time.
- The questions in this survey pertain to the <u>delivery of routinely recommended vaccinations for your patients</u>. Please exclude travel vaccines when answering questions in this survey.

| 1. ' | Which of the following b | est describes your | practice? | (Please sel | ect the (| ONE best | response) |
|------|--------------------------|--------------------|-----------|-------------|-----------|----------|-----------|
|------|--------------------------|--------------------|-----------|-------------|-----------|----------|-----------|

| ☐ Gynecology only | | Please skip to question 22 | 1.A. Are you a maternal fetal medicine specialist? |
|---------------------|---------|----------------------------|--|
| Ubstetrics only | | • | ☐ Yes |
| ☐ Gynecology/Obstet | rics | | □ No |

2. Please indicate how each of the following individuals is involved in discussing risks and benefits of vaccines with patients in your practice. (Please check the ONE best response for each row)

| | Has a major role in discussing vaccines | gonorolly dotore to another | | Don't have this personnel in my office |
|---|---|-----------------------------|---|--|
| a. Nurse | | | | |
| b. Medical Assistant (MA) | | | | |
| c. Physician or advanced care practitioner (PA, NP, CNM) seeing the patient | | | | |
| d. Front desk staff | П | П | П | |

| 3. | Does your | practice a | dminister ar | ıv vaccines to | pregnant | women? |
|----|-----------|------------|--------------|----------------|----------|--------|

| □ Ves | |
|-------|--|
|-------|--|

□ No — Please skip to question 7

4. If a pregnant woman refuses influenza or Tdap vaccine and you are unsuccessful in convincing her to receive it at that visit, what happens in <u>future visits</u>? (Please check Yes or No for each cell)

| | | Influ | ienza | Tdap | | | |
|----|---|-------|--------------|-------|------|--|--|
| a. | I continue to recommend the vaccine | ☐ Yes | \square No | ☐ Yes | □ No | | |
| b. | My staff continues to recommend the vaccine | ☐ Yes | □ No | ☐ Yes | □ No | | |

The following 2 questions are regarding the use of standing orders for vaccination. For this survey, standing orders can be defined as a <u>written</u> or <u>verbal</u> policy that persons other than a medical provider, such as a nurse or medical assistant, may consent and vaccinate a person without speaking with the physician or advanced care provider first. In such a case, a vaccine may be given before or after a physician encounter, or in the absence of a physician encounter altogether.

O'Leary S, Riley LE, Lindley MC, Allison MA, Albert AP, Fisher A, et al. Obstetrician—gynecologists' strategies to address vaccine refusal among pregnant women. Obstet Gynecol 2018; 133.

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| 5. | Do you use standing orders to | or the following vacci | ines? (A | Please sel | ect ON | E best resp | onse for | r each | vaccine) | |
|----|---|---|-----------|---------------------------|----------|----------------------|-------------------|--------|----------------------------|--|
| | | | | | | | Yes | | No | |
| a. | We use standing orders for influe | nza vaccine | | | | | | | | |
| | We use standing orders for Tdap | | | | | | | | | |
| 6. | Whether or not you use stand barriers to the use of standing (Please check the ONE box th | g orders in your offic | e? | | extent a | are each o | f the fol | lowin | g | |
| | | | | Major barrie | | omewhat a barrier | Min barr | | Not at all a barrier | |
| a. | My concern that my patients we me about a vaccine before received | | with | | | | |] | | |
| b. | My belief that it is important for recommends a vaccine to my p | | n who | | | | |] | | |
| c. | Our staff members' discomfort because of having to answer qu | | | | | | |] | | |
| d. | d. My concern that pregnant women may mistakenly receive the wrong vaccine if I don't personally assess their eligibility for vaccination | | | | | | |] | | |
| e. | e. The extra staff time that it would take to implement standing orders | | | | | | |] | | |
| f. | My belief that having standing than not having them | orders is less efficien | nt | | | | |] | | |
| g. | My belief that it is difficult to patient flow in my office | change processes arou | ınd | | | | |] | | |
| | Regardless of whether you sto current practice is with respec (Please check the ONE best respo | et to <u>recommending</u> onse for each row) | the foll | owing va | ccines. | | | | | |
| | | Strongly recommend the vaccine | | mend the v t not stron | | Make recommen | | | nmend agains ne vaccine | |
| a. | Tdap for pregnant women | | | | | | | | | |
| b. | Influenza for pregnant women | | | | | | | | | |
| | How often do you recommend following vaccines? (Please characters) | eck the ONE best respon | nse for e | | | householo | l contac Often | | eive the Always | |
| | | | 110101/ | - Lui Cij | | | O I CII | | 111 Ways | |

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Tdap vaccine

| How much time do YOU personally usually spend talking and/or making recommendations about | | | | | | | | | |
|---|--------------------------------|--|----------------------------------|--------------------------------------|-------------------------------------|--------------------------|----------------------------|----------------|--|
| immunizations for pregnant wome (Please check the ONE best respon | | 0 | | os? | | | | | |
| (1 touse enter, me enter east respen | <i>30 y 31 - 00</i> | | , | No time someone discus | else | 1-2 nutes | 3-5 minutes | ≥ 6 minutes | |
| a. A pregnant woman who does not have and needs one or more vaccinations | concerns | about vacci | nes | | | | | | |
| b. A pregnant woman who has substantial and needs one or more vaccines | concern | s about vacc | ines | | | | | | |
| 10. In a typical month, what percent o they need it? (Please check the ON | _ | | | | he followi | ng vaccii | nes when to | old | |
| they need it. (Trease eneek the Offi | No | | 1-9% | |)-19% | 20-29 | % | ≥30% | |
| a. Refuse influenza vaccine | |] | | | | | | | |
| b. Refuse Tdap vaccine | |] | | | | | | | |
| c. Refuse both vaccines | |] | | | | | | | |
| ☐ Never/Rarely ☐ Sometimes ☐ Often ☐ Always 12. Regardless of whether you stock as women who refuses a vaccine, plea convince them to receive the vacciny you think that strategy is at convince (For each row, you should check two | se tell une. Whe cing proboxes | s how ofte ether or no egnant wo | n you us t you us men to l | se each o e a strate be vaccir | f the follo egy, pleaso ated. | wing stra e tell us h | ntegies to now effectiv | v e | |
| | | often do you following st | | | | | you think t regnant wor | | |
| | Never/ Rarely | Sometimes | Often | Always | | Not very effective | Somewhat effective | Very effective | |
| a. State that you would immunize yourself or your family member if pregnant | | | | | | | | | |
| b. Inform her that not getting the vaccine is against your recommendation | | | | | | | | | |
| c. Explain that not getting the vaccine puts her own health at risk | | | | | | | | | |

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d. Explain that not getting the vaccine puts her fetus/newborn's health at risk

Influenza vaccine

| e. Discuss recent outbreaks of vaccine preventable diseases | | | | | | | | | |
|---|-----------|---------------|------------|--------------|--------------|---------------|-------------------|----------------------|----------------------|
| f. Discuss your personal experiences observing mothers and/or babies with influenza | | | | |] | | | | |
| g. Discuss your personal experiences observing mothers and/or babies with pertussis | | | | |] | | | | |
| h. State that you are confident that it is safe to receive the vaccine during | | | | | | | | | |
| 13. How strongly do you agree or disagree with the following statements about communicating with pregnant women about the risks and benefits of vaccination? (Please check the ONE box that applies for each statement) | | | | | | | | | |
| | | | | | | ongly gree | Somewhat agree | Somewhat disagree | Strongly disagree |
| a. I am comfortable discussing Tdap vaccin | ne with 1 | my pregnant | patients | | | | | | |
| b. I am comfortable discussing influenza va | accine w | rith my pregr | nant patie | ents | | | | | |
| c. I feel comfortable addressing questions of vaccines | or conce | rns about the | infant so | <u>eries</u> | | | | | |
| 14. To what extent are each of the following barriers to routinely discussing the risks and benefits of | | | | | | | | | |
| vaccines with pregnant women? () | rease c | neck the O | NE box | | | | mewhat | Minor | Not at all |
| | | | | | ajor rier | | a barrier | barrier | a barrier |
| a. Not knowing how to communicate v | vith pat | ients about | risk |] | | 92. | | | |
| b. Not knowing enough about existing vaccine safety | eviden | ce regarding | g | [| | | | | |
| c. Other health issues taking precedent vaccine risks and benefits | ce over | discussion | of | | | | | | |
| d. The amount of time it takes | | | | [| | | | | |
| e. Not being knowledgeable enough at vaccine-preventable diseases | out the | severity of | , | [| | | | | |
| f. Not feeling well prepared to address that patients raise about vaccines | unanti | cipated que | stions | [| | | | | |
| g. My belief that I am unlikely to chan their vaccination decision | ge patie | ents' minds | about | [| | | | | |
| h. My concern that the discussion will vaccines are not safe | | | | | | | | | |
| i. Not wanting to take the time to discustock in my practice | uss the | vaccine I do | on't | [| | | | | |
| 15. Please tell us how strongly you agr pregnant patients in your practice. | | _ | | | _ | | | | of |
| | | | | | | ongly gree | Somewhat Agree | Somewhat Disagree | Strongly Disagree |

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It is my responsibility to make sure my pregnant patients receive

recommended vaccines, even if they get them somewhere else.

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| Vaccinations are a shared responsibility between myself and the other providers my patient sees. | her | |] | | | | |] |
|--|--|--|--|--|---|--|--|--|
| Many of my pregnant patients receive the vaccinations recommend their pregnancy (i.e. influenza, Tdap) in primary care offices. | ed for | |] | | | | |] |
| · · · | ccines | |] | | | | |] |
| Pregnant women are at greater risk of severe influenza disease than pregnant women. | non- | |] | | | | | |
| Tdap vaccine administered during pregnancy is effective in prevent pertussis in pregnant women. | ting | |] | | | | |] |
| Tdap vaccine administered during pregnancy is effective in prevent pertussis in infants. | ting | |] | | | | |] |
| Influenza vaccine administered during pregnancy is effective in preventing influenza in pregnant women. | | |] | | | | |] |
| Influenza vaccine administered during pregnancy is effective in preventing influenza in infants. | | |] | | | | |] |
| | y. | |] | | | | |] |
| | | |] | | | | |] |
| I prefer that pregnant women receive Tdap vaccine after delivery rather than during their pregnancy because they can get it in the hospital. | | |] | | | | |] |
| · · · · · · · · · · · · · · · · · · · | | |] | | | | |] |
| It is safe to give influenza vaccine to pregnant women. | | | | | | | |] |
| It is safe to give Tdap vaccine to pregnant women. | | |] | | | | |] |
| · | ibute t | to preg | nant | women | ref | using va | ccines? | |
| (Trease theth the ONE box that applies for each statement) | Not a | at all | A 1 | ittle | 9 | Some | A lo | f |
| Belief that vaccine-preventable diseases are not severe enough to warrant vaccination | |] | | | | | | |
| Belief that they are unlikely to get a vaccine-preventable disease | | | | | | | | |
| Belief that vaccines are not very effective | | | | | | | | |
| The desire to maintain a 'natural' pregnancy | |] | | | | | | |
| Concern that their fetus will suffer immediate, short-term effects (such as spontaneous abortion) from vaccines | | | | | | | | |
| Concern that their fetus/newborn will suffer long-term complications if they receive a vaccine in pregnancy | |] | | | | | | |
| | | | | | | | | |
| General worries about vaccines without a specific concern | |] | | | | | | |
| Belief that vaccination recommendations are driven by profit considerations of drug companies | | | | | | | | |
| | providers my patient sees. Many of my pregnant patients receive the vaccinations recommend their pregnancy (i.e. influenza, Tdap) in primary care offices. It is my responsibility to stock and administer all recommended vac for pregnant women. Pregnant women are at greater risk of severe influenza disease than pregnant women. Tdap vaccine administered during pregnancy is effective in prevent pertussis in pregnant women. Tdap vaccine administered during pregnancy is effective in prevent pertussis in infants. Influenza vaccine administered during pregnancy is effective in preventing influenza in pregnant women. Influenza vaccine administered during pregnancy is effective in preventing influenza in infants. It is just as good for a pregnant woman to get Tdap vaccine in the hospital, after delivery, as it is for her to get it during her pregnancy. 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Belief that vaccine-preventable diseases are not severe enough to warrant vaccination Belief that they are unlikely to get a vaccine-preventable disease Belief that their fetus will suffer immediate, short-term effects (such as spontaneous abortion) from vaccines Concern that their fetus/newborn will suffer long-term complications if they receive a vaccine in pregnancy Concern that their child could develop autism as a result of recei | Many of my pregnant patients receive the vaccinations recommended for their pregnancy (i.e. influenza, Tdap) in primary care offices. It is my responsibility to stock and administer all recommended vaccines for pregnant women. Pregnant women are at greater risk of severe influenza disease than nonpregnant women. Tdap vaccine administered during pregnancy is effective in preventing pertussis in pregnant women. Tdap vaccine administered during pregnancy is effective in preventing pertussis in infants. 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It is of the following contribute to pregnant women preceive influenza vaccine after delivery rather than during their pregnancy because they can get it in the hospital. It is safe to give Tdap vaccine to pregnant women. In your practice, how much do each of the following contribute to pregnancy work at all Belief that vaccine-preventable diseases are not severe enough to warrant vaccination Belief that they are unlikely to get a vaccine-preventable disease Belief that vaccines are not very effective The desire to maintain a 'natural' pregnancy Concern that their fetus will suffer immediate, short-term effects (such as spontaneous abortion) from vaccines Concern that t | Many of my pregnant patients receive the vaccinations recommended for their pregnancy (i.e. influenza, Tdap) in primary care offices. It is my responsibility to stock and administer all recommended vaccines for pregnant women. Pregnant women are at greater risk of severe influenza disease than nonpregnant women. 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In your practice, how much do each of the following contribute to pregnant women refusing va (Please check the ONE box that applies for each statement) Not at all A little Some Belief that vaccine-preventable diseases are not severe enough to warrant vaccination Belief that they are unlikely to get a vaccine-preventable disease Belief that their fetus will suffer immediate, short-term effects (such as spontaneous abortion) from vaccines Concern that their fetus will suffer immediate, short-term effects (such as spontaneous | Many of my pregnant patients receive the vaccinations recommended for their pregnancy (i.e. influenza, Tdap) in primary care offices. It is my responsibility to stock and administer all recommended vaccines for pregnant women. Pregnant women are at greater risk of severe influenza disease than non-pregnant women. Tdap vaccine administered during pregnancy is effective in preventing pertussis in pregnant women. 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It is safe to give Tdap vaccine to pregnant women. It is safe to give Tdap vaccine to pregnant women. In your practice, how much do each of the following contribute to pregnant women refusing vaccines? (Please check the ONE box that applies for each statement) Not at all A little Some A lo warrant vaccination Belief that vaccines are not very effective Concern that their fetus will suffer immediate, short-term effects (such as spontaneous abortion) from vaccines Concern that their fetus will suffer immediate, short-term effects Such as spontaneous abortion from vaccines Concern that their child could develop autism as a r |

The authors provided this information as a supplement to their article.

| j. Belief that the influenza vaccine makes them sick | | | | | | | | |
|--|-----------------------------------|-----------------------|--|-------------------------------|------------------|--------------------|--------|-----------|
| k. Belief that the Tdap vaccine makes them sick | | | | | | | | |
| 1. Religious objections to vaccination | | | | | | | | |
| 17. When do you feel is the BEST TIME for pregna (Please select ONE best response) At a preconception visit or before become Anytime during pregnancy Between 27 and 36 weeks of pregnancy Just prior to delivery After delivery 18. Each year, the CDC's Advisory Committee on I Immunization Schedule of the current recomme pregnant women. Is the Adult Immunization Schedule (either page 1) I'm not aware of this schedule | ning pregnations for aper or elec | nt ion P or lic | Practices censed va | publish accines in your | ies an for ad | Adult ults, inc | ludin | g |
| ☐ No, we don't use it — Please | , î | | | | | | | |
| ☐ Yes, we use it on a daily basis☐ Yes, we use it about once a week | 1 | | If yes, in the check the c | n what i | forma | t(s) do y | ou us | se the |
| Yes, we use it about once a month | | | | | | Yes | | No |
| ☐ Yes, we use it less than once a month ☐ | | a. | Paper | | | | | |
| | | b. | Electr | onic | | | | |
| | | | Please | continu | ıe with | n questio | n 19 | |
| 19. Please tell us who is using the Adult Immunizat (Please check the ONE box that applies for each s | | le in | your pr | actice a | nd ho | w freque | ently. | |
| | Always | 3 | Ofte | en | Some | etimes | Rare | ely/Never |
| a. Medical assistant uses the schedule to determine vaccines needed for pregnant patients. | | | | | | | | |
| b. Medical assistant uses the schedule to determine vaccines needed for non-pregnant patients. | | | | | | | | |
| c. Nurse uses the schedule to determine vaccines | | | | | | | | |
| needed for pregnant patients. d. Nurse uses the schedule to determine vaccines | П | | | | | | | <u> </u> |
| needed for non-pregnant patients. e. MD or advanced medical provider uses the schedule to determine vaccines needed for pregnant patients. | | | | | | <u> </u> | | П |

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| | | Strongly Agree | Somewhat Agree | Somewhat Disagree | Strongly Disagree | I don't use i enough to ha an opinion |
|----|---|-------------------|-------------------|----------------------|----------------------|---|
| a. | I don't use the Adult Immunization Schedule because I know when my pregnant patients should get influenza and Tdap vaccines | | | | | |
| b. | I don't use the Adult Immunization Schedule because in my practice we use a software program through our electronic medical record or immunization registry to determine what immunizations a patient needs. | | | | | |
| c. | The Adult Immunization Schedule is too complicated to be helpful. | | | | | |
| d. | I am comfortable using the schedule to determine what vaccines my pregnant patients need. | | | | | |
| э. | The medical condition-based indications on the schedule are not sufficiently defined to determine what vaccines my pregnant patients need. | | | | | |
| f. | The schedule is easily accessible when I need it to make a decision about a pregnant patient's vaccinations. | | | | | |
| g. | The schedule provides clear guidance on what to do when the immunization status of a pregnant woman is unknown. | | | | | |
| h. | The footnote section of the schedule is complicated and hard to understand. | | | | | |
| 1. | Currently, recommendations for pregnant women as in the Adult Immunization Schedule. If a separate recommendations for pregnant women only was avait be for your practice? Uery useful Somewhat useful A little useful | immuniza | ntion sched | ule that pr | ovides | |
| | ☐ Not at all useful | | | | | |
| | he remaining questions are included so that we will | know abo | out the chai | racteristics | of practic | es of the |

22.A. Advanced care practitioners (e.g., physician assistants, nurse practitioners, nurse midwives)

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f. MD or advanced medical provider uses the schedule

to determine vaccines needed for non-pregnant

| □ 0 | | | | | | | |
|--|-------------|-------------|---------------------|---------------|--------------|-------------|-----------|
| □ 1 | | | | | | | |
| □ 2-4 | | | | | | | |
| □ 5-7 | | | | | | | |
| □ 8-10 | | | | | | | |
| $\square > 10$ | | | | | | | |
| 22.B. Physicians | | | | | | | |
| □ 1 | | | | | | | |
| □ 2-4 | | | | | | | |
| □ 5-7 | | | | | | | |
| □ 8-10 | | | | | | | |
| $\square > 10$ | | | | | | | |
| 23. Which of the following best desc | cribes vou | r nractice' | ? (Please cl | heck the O | NF hest res | nonse) | |
| Stand-alone practice | cribes your | pruetice | (1 rease er | icen ine of | VL best res | ponse | |
| Part of a system with other s | eitas | | | | | | |
| Please estimate how n | | re in your | <u>entire</u> multi | i-site systen | n: | | |
| | 3 | | | □ ≥ | | | |
| | | | | | | | |
| 24. Are you part of a closed panel h (MCO) that does <u>not</u> submit any | | | _ | | _ | ed care org | anization |
| ☐ Yes | | | | | | | |
| □ No | | | | | | | |
| | | | | | | | |
| 25. In your primary outpatient practical | | - | | - | _ | | |
| following groups? (Please appro | | | r best estim | ates; grou | ps are not i | nutually ex | clusive |
| and may not sum up to, or may ex | 0% | 1-9% | 10-24% | 25-49% | 50-74% | 75-100% | I don't |
| a. Uninsured patients (patients with | | | | | | | know |
| no insurance) | | | | | | | |
| b. Medicare Part B | | | | | | | |
| c. Medicare Part D | | | | | | | |
| d. Private insurance (including | | | | | | | П |

The authors provided this information as a supplement to their article.

Medicare supplemental)

e. Medicaid

| zo. 1n a typic | cal week, roughly what percentage of the patients you see are pregnant? |
|----------------|---|
| | 0% |
| | 1-9% |
| | 10-24% |
| | 25-49% |
| | 50-74% |
| | 75-100% |
| | I don't know |
| | |
| | |

27. In your primary outpatient practice, roughly what percentages of your patients are in the following age groups? (Please approximate based on your best estimates; groups are not mutually exclusive and may not sum up to, or may exceed, 100%)

| | 0% | 1-9% | 10-24% | 25-49% | 50-74% | 75-100% |
|--------------------|----|------|--------|--------|--------|---------|
| a. < 19 years | | | | | | |
| b. 19 – 49 years | | | | | | |
| c. 50 – 64 years | | | | | | |
| d. \geq 65 years | | | | | | |

28. In your primary outpatient practice, roughly what percentages of your patients are in the following racial/ethnic groups? (Please approximate; groups may not sum up to 100%)

| | 0% | 1-9% | 10-24% | 25-49% | 50-74% | 75-100% |
|----------------------------------|----|------|--------|--------|--------|---------|
| a. White (non-Hispanic) | | | | | | |
| b. Hispanic or Latino | | | | | | |
| c. Black (African American) | | | | | | |
| d. Other group (please specify): | | | | | | |

Thank you for participating. Please return this survey using the enclosed stamped envelope addressed to:

University of CO/Vaccine Policy Collaborative Initiative Misha Brtnikova / Mailstop F443 13199 E. Montview Blvd, Suite 300 Aurora, CO 80045-0508