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**National Survey of Physician Experiences with Bosentan**

Thank you for agreeing to participate in this survey relating to your experiences prescribing bosentan. This research is being conducted by investigators at Brigham and Women’s Hospital / Harvard Medical School on behalf of the US Food and Drug Administration (FDA). If you have NOT prescribed bosentan in the last year**, please email Sandra Applebaum, MS (sandra.applebaum@luminasllc.com) at Luminas, the survey administrator, and DO NOT proceed further.**

Your participation in the survey is voluntary, and you may withdraw at any time. Your responses will be aggregated with other responses and analyzed in a de-identified manner. The survey methods have been approved by the Institutional Review Board at Brigham and Women’s Hospital and the FDA Research Involving Human Subjects Committee.

The survey should take approximately 20 minutes to complete. In addition to the $20 enclosed in this packet, following completion, you will be asked for your email address and emailed a $80 Amazon gift card as a token of appreciation. This survey is not connected in any way with a pharmaceutical manufacturer.

We appreciate your contribution to this important topic. Thank you in advance for your participation!

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**Instructions for Completing the Survey**

* **As a reminder, you can take the survey online if you prefer at the following link: [link].**
* Using a blue or black pen, place an “X” in the box next to the appropriate response as shown: .
* If asked to provide a written response to a question, please PRINT legibly in the space provided.
* If completing the paper questionnaire, please return it in the enclosed postage-paid envelope.

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Section A: Prescribing and Certification Requirements

**We will start the survey by getting a better understanding of your experience with bosentan.**

A1. Approximately when was the last time you prescribed bosentan?

  month  year

A2. Approximately how many of your patients have you prescribed bosentan to over the last 3 years?

 1 1-10 patients

 2 11-20 patients

 3 21 or more patients

A3. Approximately how many women of reproductive potential have you prescribed bosentan to over the last 3 years?

 1 1-5 patients

 2 6-10 patients

 3 11 or more patients

**Before prescribing bosentan, physicians must go through a certification process administered by the manufacturer. The certification process typically involves such activities as reviewing certain materials, training, and filling out forms.**

A4. Approximately how many years ago did you first complete the certification process for bosentan?

  years ago

A5. How well do you recall the certification process that allowed you to begin to prescribe bosentan?

 1 Very well

 2 Moderately well

 3 Slightly well

 4 Not well at all

A6. Did the certification process for bosentan provide information on the following risks?

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Yes** | **No** | **I don’t remember** |
| a. Birth defects (women of reproductive potential) | 1 | 2 | 3 |
| b. Decreased hemoglobin count  | 1 | 2 | 3 |
| c. Liver damage | 1 | 2 | 3 |
| d. Pulmonary edema | 1 | 2 | 3 |
| e. Respiratory infections | 1 | 2 | 3 |
| f. Stroke | 1 | 2 | 3 |

A7. When you start a patient on bosentan, how often do you discuss the following risks?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Never****(0% of the time)** | **Rarely****(1%-5% of the time)** | **Sometimes****(6%-25% of the time)** | **Often****(26%-50% of the time)** | **Most of the time** **(51%-75% of the time)** | **Always/almost always** **(76% of the time or more)** |
| 1. Birth defects (women of

 reproductive potential) | 1 | 2 | 3 | 4 | 5 | 6 |
| 1. Decreased hemoglobin count
 | 1 | 2 | 3 | 4 | 5 | 6 |
| c. Liver damage | 1 | 2 | 3 | 4 | 5 | 6 |
| d. Pulmonary edema  | 1 | 2 | 3 | 4 | 5 | 6 |
| e. Respiratory infections | 1 | 2 | 3 | 4 | 5 | 6 |
| f. Stroke | 1 | 2 | 3 | 4 | 5 | 6 |

A8. Using a scale from 1 (most) to 4 (least), please rank the following risks to patients receiving bosentan in order of their magnitude of concern to you.

 1 Birth defects (women of reproductive potential) 

 2 Decreased sperm count (men) 

 3 Decreased hemoglobin count 

 4 Pulmonary edema 

A9. Using a scale from 1 (most) to 5 (least), please rank the usefulness of the following sources of information in contributing to your understanding of the risks of bosentan.

 1 Clinical decision support tools (e.g., UpToDate, MicroMedex, ePocrates) 

 2 Manufacturer sales representatives’ presentations or materials 

 3 Professional colleagues 

 4 Studies and other articles published in medical journals 

 5 The drug’s FDA-approved labeling 

A10. At first, how frequently must the testing required for bosentan be performed?

If fewer than 10 weeks, please enter as 2 digits, e.g., 04.

 Every  weeks

A11. Please indicate to what extent you agree or disagree with the following statements.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly agree** | **Somewhat agree** | **Neither agree nor disagree** | **Somewhat disagree** | **Strongly disagree** |
| 1. It is reasonable that bosentan has a certification

 process, while other drugs I prescribe for my  patients with pulmonary arterial hypertension do  not have a certification process. | 1 | 2 | 3 | 4 | 5 |
| 1. The certification process provided me with useful information about bosentan.
 | 1 | 2 | 3 | 4 | 5 |
| 1. The certification process for bosentan took too long to complete.
 | 1 | 2 | 3 | 4 | 5 |
| d. The educational materials provided as part of the certification process should include information about any clinically important risk of bosentan. | 1 | 2 | 3 | 4 | 5 |
| e. The educational materials provided as part of the certification process should include information about how well bosentan is expected to work. | 1 | 2 | 3 | 4 | 5 |
| f. The certification process effectively explained the testing required of patients receiving bosentan. | 1 | 2 | 3 | 4 | 5 |
| 1. Prescribers should be required to pass a quiz covering drug risks and testing requirements to complete the bosentan certification process.
 | 1 | 2 | 3 | 4 | 5 |
| h. Physicians should be required to repeat the certification process each year while they are active prescribers of bosentan. | 1 | 2 | 3 | 4 | 5 |
| i. Physicians should be compensated for having to complete the certification process for bosentan. | 1 | 2 | 3 | 4 | 5 |

Section B: Patient Initiation and Monitoring

**As you may know, prior to and while taking bosentan, patients are also required to follow certain “safe use requirements”.**

B1. To receive an initial prescription for bosentan, patients must do the following:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Yes** | **No** | **Not sure** |
| a. Get a liver function test | 1 | 2 | 3 |
| b. Get a pregnancy test (women of reproductive potential) | 1 | 2 | 3 |
| c. Get a urinalysis | 1 | 2 | 3 |
| 1. Use at least one form of contraception (women of reproductive potential)
 | 1 | 2 | 3 |

B2. When you prescribe bosentan, how long, on average, do you or someone on your team spend explaining to patients the safe use requirements related to the drug?

 1 We do not discuss safe use requirements with my patients.

 2 5 minutes or less

 3 6-10 minutes

 4 11-15 minutes

 5 More than 15 minutes

B3. Who on your clinical team is primarily responsible for helping patients complete administrative paperwork or enrollment forms involved with the safe use requirements?

 1 I am

 2 A nurse practitioner or registered nurse

 3 A physician assistant

 4 Other (Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

 5 No one

B4. Do your patients receive from you or your team any other materials describing the risks of taking bosentan?

 1 Yes

 2 No  **GO TO B6.**

B5. What materials do you or your team provide describing the risks or harms of bosentan? Please check all that apply.

 1 Published articles or stories

 2 Links to manufacturer website

 3 Links to any non-manufacturer websites

 4 Pamphlets or brochures produced by the manufacturer

 5 Pamphlets or brochures produced by you or your institution

 6 Other materials (Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

B6. After learning about the safe use requirements for bosentan, how often do your patients seek another treatment option instead?

1 Never (0% of the time)

2 Rarely (1%-5% of the time)

3 Sometimes (6%-25% of the time)

4 Often (26%-50% of the time)

5 Most of the time (51%-75% of the time)

6 Always/almost always (76% of the time or more)

B7. In your estimation, how frequently do your patients follow the testing schedule that is part of the safe use requirements?

1 Never (0% of the time)

2 Rarely (1%-5% of the time)

3 Sometimes (6%-25% of the time)

4 Often (26%-50% of the time)

5 Most of the time (51%-75% of the time)

6 Always/almost always (76% of the time or more)

B8. Please indicate to what extent you agree or disagree with the following statements.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly agree** | **Somewhat agree** | **Neither agree nor disagree** | **Somewhat disagree** | **Strongly disagree** |
| a. The testing requirement is clinically necessary for safe use of bosentan. | 1 | 2 | 3 | 4 | 5 |
| b. The paperwork involved with the safe use requirements facilitates discussion about bosentan between patients and me or my team.  | 1 | 2 | 3 | 4 | 5 |
| c. The safe use requirements are burdensome for most patients. | 1 | 2 | 3 | 4 | 5 |
| 1. The safe use requirements have often caused a delay in my patients receiving their medication.
 | 1 | 2 | 3 | 4 | 5 |
| 1. Insurance issues have often caused a delay in my patients receiving their medication.
 | 1 | 2 | 3 | 4 | 5 |
| 1. Insurance issues are more burdensome than safe use requirements for most patients.
 | 1 | 2 | 3 | 4 | 5 |

Section C: Overall Experiences and Perceptions and Reforms

C1. Please rate how easy or hard it is to complete the following tasks related to prescribing bosentan.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Very easy** | **Somewhat easy** | **Neither easy nor hard** | **Somewhat hard** | **Very hard** |
| a. The physician certification process | 1 | 2 | 3 | 4 | 5 |
| b. The patient enrollment process  | 1 | 2 | 3 | 4 | 5 |
| c. Testing patients | 1 | 2 | 3 | 4 | 5 |
| d. Reporting testing findings | 1 | 2 | 3 | 4 | 5 |

C2. How willing would you be to prescribe bosentan if it were not subject to…?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Very willing** | **Somewhat willing** | **Neither willing nor unwilling** | **Somewhat unwilling** | **Very unwilling** |
| a. Physician certification requirements | 1 | 2 | 3 | 4 | 5 |
| b. Patient safe use requirements | 1 | 2 | 3 | 4 | 5 |

C3. How often are patients needing bosentan referred to you by other physicians in your specialty because they are not certified to prescribe it?

1 A lot

2 Sometimes

3 Never

**Please indicate to what extent you agree or disagree with the following statements:**

C4. Overall, the positives of the …

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Strongly agree** | **Somewhat agree** | **Neither agree nor disagree** | **Somewhat disagree** | **Strongly disagree** |
| 1. Prescriber certification process for bosentan

 outweigh the negatives. | 1 | 2 | 3 | 4 | 5 |
| 1. Patient safe use requirements for bosentan

 outweigh the negatives. | 1 | 2 | 3 | 4 | 5 |

C5. What feedback would you give FDA or the manufacturer on the physician certification process for bosentan? *Please print clearly in the box below. If you need more space, continue on the back cover. Be sure to include the question number.*

C6. What feedback would you give FDA or the manufacturer on the patient safe use requirements for bosentan? *Please print clearly in the box below. If you need more space, continue on the back cover. Be sure to include the question number.*

Section D: Demographics

D1. What gender do you identify as…?

Mark only one oval:

1 Male

2 Female

3 Prefer not to answer

D2. Which of the following best describes your race? *Mark one or more.*

1 American Indian or Alaska Native

2 Asian

3 Black or African-American

4 Native Hawaiian or Other Pacific Islander

5 White

6 Prefer not to answer

D3. Are you of Hispanic, Latino, or Spanish origin?

1 Yes

2 No

D4. What year did you graduate from medical school?

 

D5. Which of the following best describes your specialty? *You may select up to 2.*

1 Allergy/Immunology

2 Anesthesiology

3 Cardiology

4 Dermatology

5 Endocrinology

6 Emergency Medicine

7 Family/General Practice

8 Geriatrics

9 Internal Medicine

10 Medical Genetics

11 Neurological Surgery

12 Nephrology

13 Neurology

14 Obstetrics/Gynecology

15 Oncology

16 Ophthalmology

17 Orthopedics

18 Otolaryngology

19 Pathology

20 Pediatrics

21 Physical Medicine and Rehab

22 Plastic Surgery

23 Preventive Medicine

24 Psychology

25 Pulmonology

26 Radiology

27 Rheumatology

28 Sleep medicine

29 Surgery

30 Urology

31 Other (Please specify: \_\_\_\_\_\_\_\_\_\_\_)

D6. In what ZIP code is your practice located?



D7. In what clinical settings do you prescribe bosentan? *You may select more than one.*

1 Outpatient clinic (solo practice)

2 Outpatient clinic (group practice)

3 Community hospital (non-military/VA)

4 Academic hospital (non-military/VA)

5 Military or VA hospital

6 Other (Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

**D8. What percentage of your professional time is spent in direct patient care?**

  percent

**D9. Have you received any of the following from Actelion, the brand-name manufacturer of bosentan, over the past three years? *Please select all that apply.***

1 Speaker fees

2 Payment for membership on an advisory board

3 Research grants

4 Other benefits (Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

D10. Please provide your email address to receive your gift card: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

***THANK YOU FOR TAKING THE TIME TO COMPLETE THIS SURVEY. PLEASE RETURN YOUR COMPLETED***

***QUESTIONNAIRE IN THE ENCLOSED ENVELOPE OR MAIL IT TO:***

***Adapt, Inc.***

***Physician Survey***

***5610 Rowland Road***

***Suite 160***

***Minnetonka, MN 55343***