Risk Evaluation and Mitigation Strategy (REMS) Programs to Promote Appropriate Medication Use and Knowledge: Physician Surveys on Experiences with REMS Programs

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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 app	reciate your contribution to this important topic. Thank you in advance for your participation!
	**************************************
•	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: $\square$ .
•	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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	ion A. Prescribing and Certificati				*** .		
	will start the survey by getting a Approximately when was the la			-	e with bosent	an.	
	month ye						
A2.	Approximately how many of you $\[ ]_1 \]$ 1-10 patients $\[ ]_2 \]$ 11-20 patients $\[ ]_3 \]$ 21 or more patients	ur patients h	ave you pres	cribed bosent	an to over the	last 3 years?	
	Approximately how many wom $ \begin{array}{ll}                                    $						
	ore prescribing bosentan, physici ification process typically involve	_	_	-		-	
A4.	Approximately how many years	ago did you	first complet	e the certifica	tion process fo	or bosentan?	
A5.	How well do you recall the certing $1$ Very well $2$ Moderately well $3$ Slightly well $4$ Not well at all	fication proc	ess that allov	wed you to be	gin to prescrib	e bosentan?	
A6.	Did the <u>certification process</u> for	bosentan pr	ovide inform		ollowing risks?		
_	Birth defects (women of reprod	uctivo notont	ial)	Yes		_	lon't remember
	Decreased hemoglobin count	uctive poterit	iai <i>j</i>	<u></u> 1		<u></u> 2	<u></u> 3
	Liver damage			<u></u> 1			3
	Pulmonary edema			$egin{array}{cccccccccccccccccccccccccccccccccccc$			3 3
	Respiratory infections						3
f.							3 3
				1		<b>∟</b> 12	3
Α7.	When you start a patient on bo	sentan, how	often do you	discuss the fo	llowing risks?		Alverva /almost
		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)
a.	Birth defects (women of reproductive potential)		$\square_2$	З	<u></u> 4	<u></u> 5	<u></u>
	Decreased hemoglobin count		$\prod_2$		$\prod_4$		П6
	Liver damage Pulmonary edema	$\Box$ _1 $\Box$ _1	$\square_2$ $\square_2$		I	$\square_5$	∏ <sub>6</sub>
	Respiratory infections				I		I
	Stroke		$\square_2$	$\prod_3$	4 ∏4		$\square_6$

A8.		ng a scale from 1 (most) to 4 (least), please rank th r magnitude of concern <u>to you</u> .	ne following	; risks to patio	ents receiving b	osentan in or	der of
	1	Birth defects (women of reproductive potential)					
	2	Decreased sperm count (men)		П			
	3	Decreased hemoglobin count		П			
	4	Pulmonary edema					
A9.		ng a scale from 1 (most) to 5 (least), please rank th tributing to your understanding of the risks of bos		ss of the follo	wing sources of	information	in
	1	Clinical decision support tools (e.g., UpToDate, M	icroMedex,	ePocrates)			
	2	Manufacturer sales representatives' presentation	ns or materi	als			
	3	Professional colleagues					
	4	Studies and other articles published in medical jo	urnals		П		
	5	The drug's FDA-approved labeling					
If fe	<b>wer t</b> Ever	irst, how frequently must the testing required for than 10 weeks, please enter as 2 digits, e.g., 04. Ty \textsty \text{Weeks} ase indicate to what extent you agree or disagree					
			Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
a.	prod pati	reasonable that bosentan has a certification cess, while other drugs I prescribe for my ents with pulmonary arterial hypertension do have a certification process.		$\square_2$	$\square_3$	<u></u> 4	<u></u>
b.	The	certification process provided me with useful rmation about bosentan.			<u></u> 3	<u></u> 4	<u></u>
c.	The	certification process for bosentan took too long omplete.			<u></u> 3	<u></u> 4	5
d.	The certi	educational materials provided as part of the ification process should include information ut any clinically important risk of bosentan.				<u></u> 4	<u></u> 5
e.	certi	educational materials provided as part of the ification process should include information ut how well bosentan is expected to work.		$\square_2$	$\square_3$	<u></u> 4	5
f.		certification process effectively explained the ing required of patients receiving bosentan.		$\square_2$	<u></u> 3	<u></u> 4	5
g.	cove	scribers should be required to pass a quiz ering drug risks and testing requirements to aplete the bosentan certification process.			$\square_3$	<u></u> 4	<u></u> 5
h.	Phys certi	sicians should be required to repeat the ification process each year while they are we prescribers of bosentan.				<u></u> 4	<u></u>
i.	Phys	sicians should be compensated for having to			3	<u></u> 4	5

complete the certification process for bosentan.

Section B: Patient Initiation and Monitoring As you may know, prior to and while taking bosentan, patients are also required	to follow certain	"cafe use	
requirements".	to follow certain	sale use	
B1. To receive an initial prescription for bosentan, patients must do the following	ıg:		
	Yes	No	Not sure
a. Get a liver function test	$\prod_1$	$\prod_2$	Дз
b. Get a pregnancy test (women of reproductive potential)			
c. Get a urinalysis			
d. Use at least one form of contraception (women of reproductive potential)		$\square_2$	Пз
B2. When you prescribe bosentan, how long, on average, do you or someone on	vour toom chon	d avalainin	a to
patients the safe use requirements related to the drug?	i your team spen	и ехріанін	ig to
$\square_1$ We do not discuss safe use requirements with my patients.			
$\Box_2$ 5 minutes or less			
$\square_3$ 6-10 minutes			
∐₄ 11-15 minutes			
☐₅ More than 15 minutes			
B3. Who on your clinical team is primarily responsible for helping patients comp	olete administrati	ve paperw	ork or
enrollment forms involved with the safe use requirements?			
□ <sub>1</sub> I am			
$\square_2$ A nurse practitioner or registered nurse			
$\square_{\scriptscriptstyle 3}$ A physician assistant			
Other (Please specify:)			
☐₅ No one			
B4. Do your patients receive from you or your team any other materials describe	ing the risks of ta	king boser	ntan?
☐₁ Yes			
$\square_2$ No $\rightarrow$ <b>GO TO B6.</b>			
B5. What materials do you or your team provide describing the risks or harms or	f bosentan? Pleas	se check al	l that apply
☐₁ Published articles or stories			,
$\prod_{2}$ Links to manufacturer website			
∏₃ Links to any non-manufacturer websites			
$\prod_{4}$ Pamphlets or brochures produced by the manufacturer			
∏₅ Pamphlets or brochures produced by you or your institution			
Other materials (Please specify:)			
B6. After learning about the safe use requirements for bosentan, how often do y	our patients see	k another	treatment
<b>option instead?</b> $\prod_{1} \text{ Never (0\% of the time)}$			
$\square_1$ Never (0% of the time)			

 $\square_3$  Sometimes (6%-25% of the time)  $\square_4$  Often (26%-50% of the time)

		Most of the time (51%-75% of the time)
	6	Always/almost always (76% of the time or more)
В7.	-	our estimation, how frequently do your patients follow the testing schedule that is part of the safe use irements?
	$\square_1$	Never (0% of the time)
	$\square_2$	Rarely (1%-5% of the time)
	$\square_3$	Sometimes (6%-25% of the time)
	$\Box_4$	Often (26%-50% of the time)
		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
<ul> <li>a. The testing requirement is clinically necessary for safe use of bosentan.</li> </ul>		$\square_2$	<u></u> 3	<u></u> 4	<u></u>
<ul> <li>b. The paperwork involved with the safe use requirements facilitates discussion about bosentan between patients and me or my team.</li> </ul>			<u></u> 3	<b>□</b> <sub>4</sub>	<u></u>
<ul> <li>c. The safe use requirements are burdensome for most patients.</li> </ul>	$\square_1$	$\square_2$	$\square_3$	<b>_</b> 4	<u></u>
<ul> <li>d. The safe use requirements have often caused a delay in my patients receiving their medication.</li> </ul>		$\square_2$	$\square_3$	<u></u> 4	<u></u>
<ul> <li>e. Insurance issues have often caused a delay in my patients receiving their medication.</li> </ul>		$\square_2$	$\square_3$		<u></u>
f. Insurance issues are more burdensome than safe use requirements for most patients.		$\square_2$	<u></u> 3	<u></u> 4	<u></u>

C1. Please rate how easy or hard it is to complete the fo	rms				
the state of the s	ollowing tasks	related to p	rescribing b	osentan.	
	Very easy	Somewhat easy	Neither easy nor hard	Somewhat hard	Very hard
a. The physician certification process			$\square_3$	$\square_4$	<u></u>
b. The patient enrollment process			<u></u> 3	<b></b> 4	5
c. Testing patients		$\square_2$	$\square_3$	$\square_4$	5
d. Reporting testing findings			Пз	$\square_4$	<u></u>
C2. How willing would you be to prescribe bosentan if i	t were not su	bject to?			
	Very willing	Somewhat willing	Neither willing nor unwilling	Somewhat unwilling	Very unwilling
a. Physician certification requirements			<u></u>	<b></b> 4	5
b. Patient safe use requirements					
☐ A lot ☐ Sometimes ☐ Never  Please indicate to what extent you agree or disage	ree with the	e following	statements	S:	
C4. Overall, the positives of the					
C4. Overall, the positives of the	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
<ul> <li>C4. Overall, the positives of the</li> <li>a. Prescriber certification process for bosentan outweigh the negatives.</li> </ul>	~ .		agree nor		~ .
a. Prescriber certification process for bosentan	agree	agree 	agree nor disagree	disagree	disagree
<ul><li>a. Prescriber certification process for bosentan outweigh the negatives.</li><li>b. Patient safe use requirements for bosentan</li></ul>	agree 11 turer on the p	agree $\Box_2$ $\Box_2$ ohysician cert	agree nor disagree	disagree 44 cocess for bose	disagree 55 entan?
<ul> <li>a. Prescriber certification process for bosentan outweigh the negatives.</li> <li>b. Patient safe use requirements for bosentan outweigh the negatives.</li> <li>C5. What feedback would you give FDA or the manufact Please print clearly in the box below. If you need medically in the process of the</li></ul>	agree 11 turer on the p	agree $\Box_2$ $\Box_2$ ohysician cert	agree nor disagree	disagree 44 cocess for bose	disagree 55 entan?
<ul> <li>a. Prescriber certification process for bosentan outweigh the negatives.</li> <li>b. Patient safe use requirements for bosentan outweigh the negatives.</li> <li>C5. What feedback would you give FDA or the manufact Please print clearly in the box below. If you need medically in the process of the</li></ul>	agree 11 turer on the p	agree $\Box_2$ $\Box_2$ ohysician cert	agree nor disagree	disagree 44 cocess for bose	disagree 55 entan?
<ul> <li>a. Prescriber certification process for bosentan outweigh the negatives.</li> <li>b. Patient safe use requirements for bosentan outweigh the negatives.</li> <li>C5. What feedback would you give FDA or the manufact Please print clearly in the box below. If you need medically in the process of the</li></ul>	agree 11 turer on the p	agree $\Box_2$ $\Box_2$ ohysician cert	agree nor disagree	disagree 44 cocess for bose	disagree 55 entan?

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.

		: Demographics			
D1.		nt gender do you identify as?			
		k only one oval:			
		Male			
		Female			
	<u></u> 3	Prefer not to answer			
D2.	Whi	ch of the following best describes your race? Mark one or	more.		
		American Indian or Alaska Native			
		Asian			
	Шз	Black or African-American			
	∐ <sub>4</sub>	Native Hawaiian or Other Pacific Islander			
	<u></u> 5	White			
	<u></u> 6	Prefer not to answer			
D3.	_	you of Hispanic, Latino, or Spanish origin?			
		Yes			
	<u></u> 2	No			
D4.	Wha	t year did you graduate from medical school?			
D5.	Whi	ch of the following best describes your specialty? You may	/ selec	ct up to 2.	
		Allergy/Immunology	_	Ophthalmology	
		Anesthesiology	_	Orthopedics	
		Cardiology	=	Otolaryngology	
		Dermatology	=	Pathology	
	 ∏₅	Endocrinology	=	Pediatrics	
		Emergency Medicine	=	Physical Medicine and Rehab	
		Family/General Practice		Plastic Surgery	
	_ [] <sub>8</sub>	Geriatrics	_	Preventive Medicine	
	_ 	Internal Medicine	_ 	Psychology	
	10	Medical Genetics		Pulmonology	
		Neurological Surgery		Radiology	
		Nephrology		Rheumatology	
		Neurology		Sleep medicine	
		Obstetrics/Gynecology	29	Surgery	
		Oncology	30	Urology	
				31	Other (Please
			9	specify:)	
D6.	In w	hat ZIP code is your practice located?			
		,			

D7. In what clinical settings do you prescribe bosentan? You may select more than one.
$\square_1$ Outpatient clinic (solo practice)
$\square_2$ Outpatient clinic (group practice)
☐₃ Community hospital (non-military/VA)
☐₄ Academic hospital (non-military/VA)
Other (Please specify:)
D8. What percentage of your professional time is spent in direct patient care?
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
$\square_2$ Payment for membership on an advisory board
 □₃ Research grants
$\square_4$ 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