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 appreciate 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: \boxtimes .
• 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.

	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?									
AI.	month ye		nescribed bo	sentan:					
A2.	2. Approximately how many of your patients have you prescribed bosentan to over the last 3 years? 1-10 patients 11-20 patients 3 21 or more patients								
АЗ.	Approximately how many wom $ \begin{array}{ll} $	en of reprod	uctive potent	<u>ial</u> have you p	rescribed bose	entan to over the	last 3 years?		
thro	ou may know, bosentan is subje ough a certification process admin vities as reviewing certain materi	nistered by t	he manufacti	irer. The certif	-		_		
A4.	Approximately how many years	ago did you	<u>first</u> complet	e the certifica	tion process fo	or bosentan?			
A5.	A5. How well do you recall the certification process that allowed you to begin to prescribe bosentan? \[\begin{align*}								
A6.	Did the <u>certification process</u> for	bosentan pr	ovide inform	ation on the fo	ollowing risks?				
			• 1\	Yes			don't remember		
	Birth defects (women of reprodu	uctive potent	ial)				<u></u>		
	Decreased hemoglobin count			<u>∐</u> 1		<u></u>	<u></u>		
	Liver damage					<u></u>	<u></u> З		
d.	Pulmonary edema						3		
e.	Respiratory infections					_2	<u></u>		
f.	Stroke						3		
A7.	When you start a patient on bo	sentan, how	often do you	discuss the fo	llowing 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)		
	Birth defects (women of reproductive potential)			З	<u></u>	<u></u> 5	6		
	Decreased hemoglobin count	<u>∏</u> ₁	\prod_2	\square_3	\prod_4	\prod_5	<u> </u>		
	Liver damage Pulmonary edema	∏₁		∏ ₃	∏ ₄	\square_{5}	∏ ₆		
	Respiratory infections		\square_2		₄				
	. ,	ш.	⊔⁴						

f.	Stroke	\prod_{1}	\prod_2	Пз	\prod_4	\prod_5	\prod_{6}
A8.	Using a scale from 1 (most) to 4 their magnitude of concern to y		se rank the fo	ollowing risks t	o patients receiv	ing bosentan i	n order of
	 Birth defects (women of re Decreased sperm count (m Decreased hemoglobin could Pulmonary edema 	en)	otential)		H		
A9.	Using a scale from 1 (most) to 5 contributing to your understand 1 Clinical decision support to 2 Manufacturer sales represed Professional colleagues 4 Studies and other articles p	ling of the rigols (e.g., UpTentatives' presublished in n	sks of bosent oDate, Micro esentations or	an. Medex, ePocra · materials	_	ces of informa	tion in
	5 The drug's FDA-approved lands. At first, how frequently must the wer than 10 weeks, please enter the weeks.	ne testing red	-	sentan be perfo	∟l ormed?		

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
 a. 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. 		\square_2	Пз	<u></u> 4	<u></u> 5
 The certification process provided me with useful information about bosentan. 		\square_2	3	<u></u> 4	<u></u>
 The certification process for bosentan took too long to complete. 		\square_2	\square_3	<u></u> 4	<u></u>
 d. The educational materials provided as part of the certification process should include information about any clinically important risk of bosentan. 		\square_2	<u></u> 3	<u></u> 4	5
 The educational materials provided as part of the certification process should include information about how well bosentan is expected to work. 			\square_3	<u></u> 4	5
 f. The certification process effectively explained the testing required of patients receiving bosentan. 		\square_2	\square_3	<u></u> 4	5
g. Prescribers should be required to pass a quiz covering drug risks and testing requirements to complete the bosentan certification process.			<u></u> 3	<u></u> 4	5
 h. Physicians should be required to repeat the certification process each year while they are active prescribers of bosentan. 		\square_2	\square_3	<u></u> 4	<u></u>
 Physicians should be compensated for having to complete the certification process for bosentan. 		\square_2	<u></u>	<u></u> 4	<u></u>

Section B: Patient In	tiation and Monitorir	ng					
As you may know, prequirements".	rior to and while takin	ng bosentan, patio	ents are also re	equired to follo	w certain	"safe use	
-	itial prescription for b	osentan, patient	s must do the f	following:			
					Yes	No	Not sure
a. Get a liver fund	tion test					\square_2	Пз
b. Get a pregnand	cy test (women of repr	roductive potentia	al)			\square_2	Пз
c. Get a urinalysis	5						
d. Use at least on	e form of contraception	on (women of rep	roductive pote	ntial)		\square_2	<u></u> 3
patients the safe \Box_1 We do not \Box_2 5 minutes \Box_3 6-10 minut \Box_4 11-15 minu	es	elated to the drug	?	eone on your te	eam spend	d explaining	g to
enrollment forn $ \begin{bmatrix} 1 & 1 \text{ am} \\ 2 & A \text{ nurse pra} \end{bmatrix} $ $ \begin{bmatrix} 3 & A \text{ physician} \end{bmatrix} $	nical team is primarily ns involved with the s actitioner or registered assistant ase specify:	afe use requirem		ts complete adı	ministrati [,]	ve paperwo	ork or
B4. Do your patient \Box_1 Yes \Box_2 No \rightarrow GO T	s receive from you or O B6.	your team any of	ther materials	describing the I	risks of ta	king bosen	tan?
\Box_1 Published art \Box_2 Links to manu \Box_3 Links to any r \Box_4 Pamphlets or \Box_5 Pamphlets or	do you or your team icles or stories ufacturer website non-manufacturer web brochures produced brochures produced lals (Please specify:	osites by the manufactu by you or your ins	rer titution		tan? Pleas	e check all	that apply
option instead? \Box_1 Never (0%	bout the safe use requoing of the time) -5% of the time)	uirements for bos	entan, how of	ten do your pat	ients seel	c another t	reatment

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

 \square_5 Most of the time (51%-75% of the time)

B7. In your estimation, how frequently do your patient 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 most	re)			rt of the safe	e use
B8. Please indicate to what extent you agree or disagr	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
 a. The testing requirement is clinically necessary for safe use of bosentan. 			Пз	\Box_4	5
b. The paperwork involved with the safe use requirements facilitates discussion about bosentan between patients and me or my team.			<u></u> 3		5
c. The safe use requirements are burdensome for mos patients.	t 🔲 1			 4	5
d. The safe use requirements have often caused a delay in my patients receiving their medication.			<u></u> 3	<u></u> 4	<u></u>
e. Insurance issues have often caused a delay in my patients receiving their medication.		\square_2	\square_3	\Box_4	5
f. Insurance issues are more burdensome than safe use requirements for most patients.			<u></u> 3	<u></u> 4	5
Section C: Overall Experiences and Perceptions and Ref	orms				
C1. Please rate how easy or hard it is to complete the	following tasks	related to p		osentan.	
	Very easy	Somewhat easy	Neither easy nor hard	Somewhat hard	Very hard
a. The physician certification process		\square_2	Пз	<u></u> 4	<u></u>
b. The patient enrollment process		\square_2	<u></u> 3	 4	5
c. Testing patients		\square_2	3	 4	_5
d. Reporting testing findings		\square_2	<u></u>	 4	5
C2. How willing would you be to prescribe bosentan if	it were not su	bject to?			
	Very willing	Somewhat willing	Neither willing nor unwilling	Somewhat unwilling	Very unwilling
a. Physician certification requirements		\square_2	Пз	 4	<u></u>
b. Patient safe use requirements		\square_2	Пз	<u></u> 4	<u></u>
C3. How often are patients needing bosentan referred	to you by othe	er physicians	in your spec	cialty becaus	e they are

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

	not certified to prescribe it?								
	□₁ A lot								
	2 Sometimes								
	□ ₃ Never								
عاد	ase indicate to what extent you agree or disagre	a with the	following s	etatomonte	••				
1 100	ase maleate to what extent you agree or disagre	c with the	, ionowing s	statements	·•				
C4.	Overall, the positives of the								
		Strongly	Somewhat	Neither	Somewhat	Strongly			
		agree	agree	agree nor disagree	disagree	disagree			
a.	Prescriber certification process for bosentan		П	_	П	П			
	outweigh the negatives.	∐ ₁	2	<u></u> 3	<u></u> 4	5			
b.	Patient safe use requirements for bosentan			Пз	\Box_4	\square_5			
	outweigh the negatives.		<u> </u>		ш.				
C5.	What feedback would you give FDA or the manufactur	rer on the r	ohysician cert	ification pro	cess for bose	ntan?			
	Please print clearly in the box below. If you need more								
	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	_		_					
	question number.								
	ion D: Pandemic Impact								
D1.	Did you prescribe bosentan prior to the start of the CC)VID-19 pa	ndemic in Ma	rch 2020?					
	∐₁ Yes								
	∐₂ No								
D3	IF YOU ANSWERD NO TO D1, SKIP TO D3. IF YOU ANSW	WEDED VEC	TO D1 place	o rato how	much eacier e	r harder it			
DZ.	was to complete the following tasks related to prescri					i ilaluel it			
	The second secon			Neither					
		Much easier	Somewhat easier	easier nor	Somewhat harder	Much harder			
		Casici	Cusici	harder	ilai aci	naraci			
a.	The patient enrollment process			З	 4	5			
b.	Testing patients			З	<u></u> 4	5			
c.	Reporting testing findings		\square_2	□ ₃	\Box_4	5			
D3.	Were you aware of the pandemic policy related to requ	uired testin	g under spec	ial FDA drug	safety progr	ams?			
	1 Yes								
	\square_2 No								

In March 2020, the FDA announced it would permit drug manufacturers and health care providers to make accommodations for laboratory tests required under the drug safety programs during the COVID-19 pandemic, such as allowing patients to take liver function tests every two months instead of every month.

D4.		the <u>manufacturers</u> of bosentan change the drug's <u>pregnanc</u> ne pandemic?	or l	iver function testing requirements in response
	_	Yes		
	\prod_{2}^{1}	No		
	=	I don't know		
D5	_	you change pregnancy or liver function testing requirement	s for	your natients taking hosentan in response to
D 3.		pandemic (independent of the drug manufacturers)?	<u>s</u> 101	your patients taking bosentain in response to
		Yes (If yes, describe briefly:)		
	\square_2	No		
Sect	ion E	: Demographics		
E1.	Wha	nt gender do you identify as? Mark only one.		
	\Box_1	Male		
	\square_2	Female		
	3	Prefer not to answer		
E2.	Whi	ch of the following best describes your race? Mark one or m	ore.	
		American Indian or Alaska Native		
	\square_2	Asian		
	\square_3	Black or African-American		
	\Box_4	Native Hawaiian or Other Pacific Islander		
		White		
	<u></u>	Prefer not to answer		
E3.	Are	you of Hispanic, Latino, or Spanish origin?		
		Yes		
	\square_2	No		
E4.	Wha	at year did you graduate from medical school?		
F5.	Whi	ch of the following best describes your specialty? You may s	elec	t un to 2.
		Allergy/Immunology		Neurology
	\prod_{2}^{1}	Anesthesiology		Obstetrics/Gynecology
		Cardiology		Oncology
		Dermatology		Ophthalmology
		Endocrinology		Orthopedics
	6	Emergency Medicine		Otolaryngology
		Family/General Practice	19	Pathology
	8	Geriatrics	20	Pediatrics
	_ 	Internal Medicine		Physical Medicine and Rehab
	_ 	Medical Genetics		Plastic Surgery
		Neurological Surgery		Preventive Medicine
	\prod_{12}	Nephrology	\prod_{24}	Psychology

	 □₂₅ Pulmonology □₂₆ Radiology □₂₇ Rheumatology □₂₈ Sleep medicine 	\square_{29} Surgery \square_{30} Urology \square_{31} specify:	Other (Please				
E6.	In what ZIP code is your practice located?						
E7.	In what clinical settings do you prescribe bosentan? You may set 1. Outpatient clinic (solo practice) 1. Outpatient clinic (group practice) 1. Community hospital (non-military/VA) 1. Academic hospital (non-military/VA) 1. Military or VA hospital 1. Other (Please specify:						
E8. What percentage of your professional time is spent in direct patient care?							
E9. 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.							
E10. 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.						

Adapt, Inc.
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