Voluntary Product Accessibility Template (VPAT)

Name of Product	SimChart for the Medical Office
Date	January 29, 2015
Completed by	Ted Gies, Elsevier UCD, Dayton
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Testing Tools and Methods	Hands-on keyboard operation Firebug/Code inspection JAWS 11, JAWS 15 on Mozilla Firefox 29 and MS IE 9 on Windows 7 Open Ajax Alliance (OAA) side bar Wave toolbar
Guidelines Used to Complete this VPAT	SSA guide to filling out a VPAT: http://www.socialsecurity.gov/accessibility/files/ SSA_guide_to_completeing_the_voluntary_product_accessibility_template.pdf Webaim.org Section 508 checklist: http://webaim.org/standards/508/checklist Jim Thatcher's online course on Section 508 Guidelines: http://jimthatcher.com/webcoursec.htm The W3C WCAG 2.0 scripting techniques used to guide the scripting section: http://www.w3.org/TR/WCAG20-SCRIPT-TECHS/client-side-script.html Elsevier Accessibility Checklist: http://romeo.elsevier.com/accessibility_checklist/
Pages Covered	Calendar Page, Coding & Billing, Patient Demographic Lightbox, Form Repository PDF (Advance Directive), Form Repository Form (Doctor's First Report), Post-Case Quiz
Pages on Accessibility Roadmap	All pages are potentially going through accessibility updates in 2015.

Applicable Sections

Section	Supporting Features	Remarks
Section 1194.21 Software Applications and Operating Systems	Supports:	a) Only some of the UI elements and controls are accessible with the

	B, E, F, G Supports with minor exceptions: A, C, D, I, L Not applicable: H, J, K	keyboard. b) SimChart should not interrupt any APIs/operating system (OS) functions. c) Most focusable elements have some form of visible focus, although it is a default focus given by the browser. d) SimChart communicates most of its interface and navigation to Assistive Technology. e) SimChart uses several background and static images that identify as controls or UI elements, and they are consistent throughout the website. f) Users with screen readers can access all textual information. g) SimChart will not interfere with any contrast settings, magnification settings or keyboard sensitivity settings set by the OS. h) SimChart does not use any videos or animation. i) Most elements do not use color coding as the only means of conveying information. j) Not applicable k) Not applicable l) Most forms are accessible and are easily submitted, but don't have proper labels.
Section 1194.22 Web-based Internet Information and Applications	Supports: D, G, K, L, M, P Supports with exceptions: A, C, N, O	a) Many images and icons used have associated alt text, but it is often incorrect. b) SimChart does not have any videos or synchronized media.

	Not applicable: B, E, F, H, I, J	c) Most elements do not use color coding as the only means of conveying information.
		d) SimChart uses external style sheets instead of inline styles.
		e) Not applicable
		f) Not applicable
		g) The tables on the site use appropriate row and column headers.
		h) Not applicable
		i) No frames exist on the site.
		j) Not applicable
		k) SimChart does not have any primary functionality that warrants a separate text-only page.
		l) Most parts of the UI and displayed content do not utilize JavaScript. The areas of content that do use JavaScript is available and conveyed to Assistive Technology.
		m) SimChart does not require any plugins or applications on the client system in order to use the core features.
		n) Most forms are accessible and are easily submitted, but do not have proper labels.
		o) Some headings exist on most pages, which allow AT users to jump to the different areas of content quickly. No specific "skip link" exists.
		p) Timed assignments exist, but time limits are provided beforehand, and extending the time limit would invalidate the activity.
Section 1194.23 Telecommunications	Not Applicable	

Products		
Section 1194.24 Video and Multi-media Products	Not Applicable	
Section 1194.25 Self-Contained, Closed Products	Not Applicable	
Section 1194.26 Desktop and Portable Computers	Not Applicable	
Section 1194.31 Functional Performance Criteria	Supports: B, C Supports with minor exceptions: A, F Not applicable: D, E	A) SimChart is a website that uses HTML, CSS, and JavaScript. HTML and JavaScript are both supported by screen readers such as JAWS and by Braille displays. The UI itself primarily uses standard HTML controls such as links, buttons, and form controls which are all identifiable by screen readers. B) All content and controls should be compatible with screen enlargement software and with built-in browser zoom functionality. C) All functionality in the interface is usable without requiring hearing. D) Not applicable E) Not applicable F) Only some of Simchart's controls and links are keyboard operable, and the exceptions are defined in 1194.21 (A).
Section 1194.41 Information, Documentation and Support	Supports: A, C Does not support: B	A) SimChart does not provide support through the actual site, but Evolve provides SimChart support with PDF documents and accompanying images. B) SimChart does not have a description of the accessibility and compatibility features of the product. C) SimChart does not provide support through the actual site, but Evolve provides a searchable Q&A database. A contact page is also

		provided for users to contact Evolve about SimChart directly through email, phone, or live chat.

Legend			
Not Applicable	Supports, or Supports with assistive technology	Supports with exceptions	Does not support

Section 1194.21
Software Applications and Operating Systems

Criteria	Supporting Features	Remarks
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	Supports with exceptions	Some elements and UI controls are accessibly by keyboard. Exceptions: • "Back to Assignment" and "view Assignment Description" links. • The main navigation ("Front Office", "Clinical Care", and "Coding & Billing"). • The secondary navigation ("Calendar", "Correspondence", "Patient Demographics", "Find Patient", and "Form Repository"). • On the Calendar page, the left navigation collapsible menu, the

		Appointment Type filters, the main calendar controls and elements (Arrow movement between days/weeks/months, "Day" "Week" "Month" buttons, print icon, and the actual appointments. • On the Coding & Billing page, the left navigation, the "View Fee Schedule" and "Hide" links, and the table controls ("First Previous 1 2 3 4 Next Last", table sorting). • In the Patient Demographics lightbox, the pop-up calendar, and the table for the list of patients after a patient search. • On the Form Repository PDF page, the left navigation and the PDF viewing controls. • On the Form Repository Doctor's First Report page, the pop-up calendars. • On the Post-Case Quiz page, the "Back to Assignment List" link and the left navigation.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	Supports	SimChart does not have features that would interfere with standard API features of an OS including the MSAA (Microsoft Active Accessibility).
(c) A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.	Supports with exceptions	Most elements have some form of visible focus, although it is a default focus given by the browser. Exceptions: • All buttons across all pages do not have any visible focus.
(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be	Supports with exceptions	SimChart communicates most of its interface and navigation to Assistive

available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.		Technology. Exceptions: • On the Calendar page, the menus on the left do not communicate that they are expandable/collapsible.
(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.	Supports	SimChart uses several background and static images that identify as controls or UI elements, and they are consistent throughout the website.
(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.	Supports	Users with screen readers can access all textual information.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports	SimChart will not interfere with any contrast settings, magnification settings or keyboard sensitivity settings set by the OS.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Not applicable	SimChart does not use any videos or animation.
(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supports with exceptions	SimChart does not use color coding to convey most information. Exceptions: • On the Calendar page, the appointment types are designated by color only. • Any time an error is identified, the error itself is marked only by color. • The question progress on the Post-Case Quiz is designated using color-coding.
(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	Not applicable	SimChart does not offer any options to adjust color and contrast settings.
(k) Software shall not use flashing or blinking	Not	SimChart does not have any flashing or

text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	applicable	blinking texts or objects.
(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Supports with exceptions	Most forms are accessible and are easily submitted. However, although nearly all forms across all pages have accompanying text, but the text is not marked as a label for the associated form.

[Return to the top](#)

Section 1194.22
Web-based Internet information and applications

Criteria	Supporting Features	Remarks
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Supports with exceptions	Many images and icons used have alt text, but often times it's used incorrectly. Exceptions: - Nearly all images across all pages should have null alt text (alt=""). For example, the icons in the secondary nav should have null alt text. The exception being the logo at the top, which would likely have alt text such as "SimChart for the medical office". - The images that are on either side of the various buttons across all pages have alt text. These should be background images and styled with CSS.
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not Applicable	SimChart does not have any videos or synchronized media.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Supports with exceptions	SimChart does not use color coding to convey most information. Exceptions: - On the Calendar page, the appointment types are designated by color only. - Any time an error is identified, the error itself is marked only by color. - The question progress on the Post-Case

8

		Quiz is designated using color-coding.
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Supports	SimChart uses external style sheets instead of inline styles.
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not applicable	SimChart does not have any server-side image maps.
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Not applicable	SimChart does not have any client-side image maps.
(g) Row and column headers shall be identified for data tables.	Supports	The tables on the site use appropriate row and column headers.
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Not applicable	Data tables on the site do not have two or more logical levels of row or column headers.
(i) Frames shall be titled with text that facilitates frame identification and navigation	Not applicable	No frames are used on the site.
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not applicable	SimChart does not use any images that flash, blink or flicker.
(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	Supports	SimChart does not have any primary functionality that warrants a separate text-only page.

(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.	Supports	Most parts of the UI and displayed content do not utilize JavaScript. The areas of content that do use JavaScript is available and conveyed to Assistive Technology.
(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).	Supports	SimChart does not require any plugins or applications on the client system in order to use the core features.
(n) When electronic forms are designed to be completed on-line, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Supports with exceptions	Most forms are accessible and are easily submitted. However, although nearly all forms across all pages have accompanying text, but the text is not marked as a label for the associated form.
(o) A method shall be provided that permits users to skip repetitive navigation links.	Supports with exceptions	Some headings exist on most pages, which allow users using Assistive Technology to jump to the different areas of content quickly. There is no specific "skip link" on any pages however.
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supports	The assignments in SimChart have a time limit which is provided beforehand, and extending the time limit would invalidate the test.

Return to the top

Section 1194.31
Functional Performance Criteria

Criteria	Supporting Features	Remarks
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supports with exceptions	SimChart is a website that uses HTML, CSS, and JavaScript. HTML and JavaScript are both supported by screen readers such as JAWS and by Braille displays. The UI itself primarily uses standard HTML controls such as links, buttons, and form controls which are all identifiable by screen readers. The exceptions to the vision requirement include a few items concerning alternative text as described in 1194.22 (A).
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supports	SimChart uses HTML and text for its content as well as independent CSS for formatting to allow users to apply their own style sheets. OS features such as Windows 7 Magnifier are compatible with the SimChart application. Other browser controls such as Mozilla Firefox Zoom-In feature will work with SimChart. SimChart is usable with screen magnification software such as ZoomText.
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided	Supports	SimChart does not require user hearing to operate any application or functionality. Product support is provided through telephone, email, ticket submission, or live chat.
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	Not applicable	There are no circumstances where audio information is important for use of the product.
(e) At least one mode of	Not applicable	SimChart does not require any speech input for operation.

operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.		
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Supports with exceptions	Only some of Simchart's controls and links are keyboard operable, and the exceptions are defined in 1194.21 (A). Users may use their browser text enlarging tool to enlarge controls for easier clickability. Label tags have been applied to small controls such as checkboxes and radio buttons in some places to allow for easier selection with a mouse.

Section 1194.41 Information, documentation, and support

Criteria	Supporting Features	Remarks
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge.	Supports	SimChart does not provide support through the actual site, but Evolve provides SimChart support with PDF documents and accompanying images.
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Does not support	SimChart does not have a description of the accessibility and compatibility features of the product.
(c) Support services for products shall	Supports	SimChart does not provide support through the actual

| accommodate the communication needs of end-users with disabilities. | | site, but Evolve provides a searchable Q&A database.

A contact page is also provided for users to contact Evolve about SimChart directly through email, phone, or live chat. |
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[Return to the top](#)

13