MHE – AccessMedicine: Accessibility Conformance Report

WCAG Edition

(Based on VPAT® Version 2.4Rev)

Name of Product/Version: McGraw Hill's AccessMedicine

Report Date: 04/22/2022

Product Description: The McGraw Hill AccessMedicine Platform is a comprehensive online educational medical resource that provides students with a full spectrum of medical video libraries, a series of lectures, books and content, and includes a search feature for further reading materials, articles, podcasts and self-assessments.

- AccessAnesthesiology
- AccessAPN
- AccessBiomedical Science
- AccessCardiology
- AccessDermatologyDxRx
- AccessEmergency Medicine
- AccessHemOnc
- AccessMedicina
- AccessMedicine
- AccessNeurology

- AccessObGyn
- AccessPediatrics
- AccessPharmacy
- AccessPhysiotherapy
- AccessSurgery
- Case Files Collection
- Clinical Sports Medicine Collection
- F.A. Davis AT Collection
- F.A. Davis PT Collection
- JAMAevidence
- Murtagh Collection
- OMMBID
- Pharmacotherapy Principles & Practice

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Notes: This report covers accessibility conformance for the **'AccessMedicine'** web application available to users.

Scope: Accessibility Audit as per WCAG 2.1 AA Compliance for **'AccessMedicine'** web application.

URL - https://accessmedicine.mhmedical.com

Evaluation Methods Used: The **'AccessMedicine'** web application was tested on the environments and screen readers in the table. Testing was also completed with native screen reader users and people with disabilities. Testing methods included the use of automated testers, color contrast analyzer, and manual testing.

OS	Browser	Screen Reader
Window 10	Firefox	NVDA
Window 10	Chrome	JAWS
MAC	Safari	Voiceover
iPad	Safari	Voiceover
Android Tablet	Chrome	Talkback

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0	Level A (Yes)
	Level AA (Yes)
	Level AAA (No)
Web Content Accessibility Guidelines 2.1	Level A (Yes)
	Level AA (Yes)

Standard/Guideline	Included In Report
	Level AAA (No)

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- **Not Applicable**: The criterion is not relevant to the product.
- **Not Evaluated**: The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

WCAG 2.1 Report

Note: When reporting on conformance with the WCAG 2.1 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the WCAG 2.1 Conformance Requirements.

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations

[1.1.1 Non-text Content](#) (Level A)	Web: **Partially Supports**	All non-text content that is presented to the user has a text alternative that serves the equivalent purpose.
		
		Below are the **exceptions:**
		• Incorrect alt-text implemented.
		    o Image Gallery
		    o Standard table of contents
		• Alt text is missing
		    o Individual Case
		    o JAMA Evidence
		    o Standard table of contents
		• The alt text is not defined for
		    o G&G Annual FDA Approvals
		    o NPTE Review Prep landing page

[1.2.1 Audio-only and Video-only (Prerecorded)](#) (Level A)	Web: **Supports**	• Timebased Audio files are supported by adjacent page content. • Video has a Closed caption and Audio description button • Speed controls added to Audio & Video Player supporting 0.5x – 2x
[1.2.2 Captions (Prerecorded)](#) (Level A)	Web: **Supports**	• Captioning provided can be accessed using the AD or CC button in the video player • Accurate captions within the video player • Audio description added to Videos
[1.2.3 Audio Description or Media Alternative (Prerecorded)](#) (Level A)	Web: **Supports**	Provided support for video with Closed Caption, Audio description, audio, and images.
[1.3.1 Info and Relationships](#) (Level A)	Web: **Partially Supports**	Content, structure, and relationships are defined as follows: • Headings are defined on all pages. • User interface component labels are associated with the fields they are labeling. • Headings are encoded with HTML heading tags.

Criteria	Conformance Level	Remarks and Explanations

		• Table markup is used for marking up data tables, including row and column headers and table captions/summaries where appropriate
		• Data tables specify SUMMARY or CAPTION.
		
		Below are the **exceptions:**
		• Global || Incorrect list is implemented
		• Global || List is not implemented
		• Global || Unnecessary list is implemented
		• Global || An unnecessary link is implemented.
		• Global || Using the down arrow key, Screen Reader reads all links in one go
		• Global || Screen Reader reads the Hidden content
		• Global || Screen reader reads the links, content, and buttons twice/thrice.
		• Global || Screen Reader reads the content in one go
		• Global || Links text receiving two times focus.
		• Incorrect list is implemented
		    o Book chapter
		• Unnecessary heading level is defined
		    o Book chapter
		    o Standard table of contents
		• Heading level is incorrect.
		    o Lectures
		    o Global umbrella page
		    o Standard table of contents
		    o Book chapter
		    o Individual Q&A page
		    o Tier 1
		• Heading level is not defined.
		    o Search
		    o Single page format individual case
		    o JAMAEvidence
		    o OMMBID
		• Missing alt-text

Criteria	Conformance Level	Remarks and Explanations
		○ Book chapter ○ OMMBID - Focus does not move to the element ○ Search ○ Standard table of contents - The screen reader is reading the footnote link as normal link ○ Figure Carousel ○ G&G Annual FDA Approvals - The radio buttons are not grouped properly ○ Standard table of contents ○ Individual Q&A page - Screen Reader reads the link as blank ○ Standard table of contents - The link text is not defined for the link ○ Standard table of contents - The screen reader is reading the background content ○ Individual Q&A page
[1.3.2 Meaningful Sequence](#) (Level A)	Web: **Partially Supports**	- Structure provided to allow logical navigation (top to bottom, left to right) and can be programmatically determined. - The sequence of elements in the Document Object Model matches a logical reading sequence. Below are the **exceptions:** - Global || Incorrect reading order ○ Flashcards landing page ○ OMMBID ○ Standard table of contents ○ AccessMedicine
[1.3.3 Sensory Characteristics](#) (Level A)	**Not Applicable**	**Not Applicable** Instructions provided for understanding and operating content do not rely solely on sensory characteristics of

Criteria	Conformance Level	Remarks and Explanations
		components such as shape, size, visual location, orientation, or sound.
1.4.1 Use of Color (Level A)	Not Applicable	**Not Applicable** Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.
1.4.2 Audio Control (Level A)	Not Applicable	**Not Applicable** If any audio on a Web page plays automatically for more than 3 seconds, either a mechanism is available to pause or stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level.

2.1.1 Keyboard (Level A)	Web: **Partially Supports**	All functionality is operable through keyboard interactions without requiring specific timings of keystrokes. Some users will experience issues in this platform in the areas noted below.
		
		Exceptions:
		• Global || Dropdown is not closed using key
		    o AccessMedicine
		• Unable to access the link, button, drop-down menu using keys
		    o Book chapter
		    o Patient Education Handouts
		    o Individual Update
		    o Multimedia page
		    o Cardio - BioDigital 3D Animations
		• Using Esc key the expanded menus are not getting closed
		    o OMMBID
		• Screen reader focus is missing for the About Search Link
		    o OMMBID
		    o External Updates

Criteria	Conformance Level	Remarks and Explanations
2.1.2 No Keyboard Trap (Level A)	Web: **Supports**	All functionality is operable through keyboard interactions without requiring specific timings of keystrokes.
2.1.4 Character Key Shortcuts (Level A 2.1 only)	Not Applicable	**Not Applicable** If a keyboard shortcut is implemented in content using only letter (including upper- and lower-case letters), punctuation, number, or symbol characters, then at least one of the following is true: • Turn off: A mechanism is available to turn the shortcut off; • Remap: A mechanism is available to remap the shortcut to use one or more non-printable keyboard characters (e.g. Ctrl, Alt, etc); Active only on focus: The keyboard shortcut for a user interface component is only active when that component has focus.
2.2.1 Timing Adjustable (Level A)	Not Applicable	**Not Applicable** For each time limit that is set by the content, at least one of the following is true: • Turn off: The user is allowed to turn off the time limit before encountering it; or • Adjust: The user is allowed to adjust the time limit before encountering it over a wide range that is at least ten times the length of the default setting; or • Extend: The user is warned before time expires and given at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), and the user is allowed to extend the time limit at least ten times; or • Real-time Exception: The time limit is a required part of a real-time event (for example, an

Criteria	Conformance Level	Remarks and Explanations
		auction), and no alternative to the time limit is possible; or • Essential Exception: The time limit is essential and extending it would invalidate the activity; or 20 Hour Exception: The time limit is longer than 20 hours.
[2.2.2 Pause, Stop, Hide](#) (Level A)	**Not Applicable**	**Not Applicable** For moving, blinking, scrolling, or auto-updating information, all of the following are true: • Moving, blinking, scrolling: For any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds, and (3) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it unless the movement, blinking, or scrolling is part of an activity where it is essential; and Auto-updating: For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the auto-updating is part of an activity where it is essential.
[2.3.1 Three Flashes or Below Threshold](#) (Level A)	**Not Applicable**	**Not Applicable** Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red flash thresholds.
[2.4.1 Bypass Blocks](#) (Level A)	Web: **Partially Supports**	Headings are defined on most of the tested pages to help users bypass repetitive buttons and access the main content. Below are the **exceptions:** • Document has more than one banner landmark o AccessMedicine

Criteria	Conformance Level	Remarks and Explanations
		• Breadcrumb Navigation Region is not provided for the navigation links o Book with A-Z navigation • Link target does not exist o Lectures
2.4.2 Page Titled (Level A)	Web: **Supports**	Pages have a meaningful title specified in the TITLE element.
2.4.3 Focus Order (Level A)	Web: **Partially Supports**	Logical movement through the focusable components using only the keyboard, in an order that follows a meaningful sequence. Below are the **exceptions:** • Global || Incorrect focus order o AccessMedicine o Book chapter o Readings page o Flashcards landing page o Standard table of contents o Cases TOC page o OMMBID o Individual Q&A page o NPTE Review Prep landing page o Drug Monographs o Cardio - BioDigital 3D Animations • Global || Tab focus moves to the disabled elements o Book chapter o Individual Case o Standard table of contents o Cases TOC page • Global || Focus does not move to the elements o Book chapter o Standard table of contents o Multimedia page o Lectures

Criteria	Conformance Level	Remarks and Explanations
2.4.4 Link Purpose (In Context) (Level A)	Web: **Partially Supports**	The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context. Below are the **exceptions:** • No link text is provided o AccessMedicine • Link-text (letters) are not descriptive enough o DDx • The screen reader reads the link text incorrectly o 2MM
2.5.1 Pointer Gestures (Level A 2.1 only)	Web: **Supports**	The application does not rely on multipoint or path-based gestures for operation.
2.5.2 Pointer Cancellation (Level A 2.1 only)	Web: **Supports**	Touch events are only triggered when touch is removed from a control.
2.5.3 Label in Name (Level A 2.1 only)	Web: **Supports**	Accessible names for user interface controls match with their visual labels on the tested screens.
2.5.4 Motion Actuation (Level A 2.1 only)	**Not Applicable**	**Not Applicable**
3.1.1 Language of Page (Level A)	Web: **Supports**	All pages either have lang="en-us" or lang="en" in the <html> tag.
3.2.1 On Focus (Level A)	Web: **Supports**	When an element receives focus, it does not result in a substantial change to the page, an additional change of keyboard focus.
3.2.2 On Input (Level A)	Web: **Partially Supports**	When an element receives focus, it does not result in a substantial change to the page, an additional change of keyboard focus. Below are the **exceptions:** • Global || Change of context is not announced by the screen reader o AccessMedicine o Book chapter o Cases TOC page
3.3.1 Error Identification (Level A)	**Not Applicable**	**Not Applicable**

Criteria	Conformance Level	Remarks and Explanations
		The default human language of each Web page can be programmatically determined.

3.3.2 Labels or Instructions (Level A)	Web: **Partially Supports**	• Labels or instructions are provided when content requires user input with few exceptions.
		• Most input elements are labeled with plain text labels or aria-labels with few exceptions.
		
		Below are the **exceptions**:
		• Same label provided for all the text fields
		   o Individual Case
		• The label is not defined for the edit text field
		   o Standard table of contents
		   o Individual Q&A page

4.1.1 Parsing (Level A)	Web: **Partially Supports**	Elements in HTML content have complete start and end tags and are properly nested. However, in some exceptions page element Id is missing or is not unique. Below are the **exceptions:** • ID attribute must be unique o Book chapter
4.1.2 Name, Role, Value (Level A)	Web: **Partially Supports**	Most of the UI elements in the Platform are coded in a way that has Name and Role values provided. Some users will experience issues in this platform in the areas noted below. Below are the **exceptions**: ● Global || Unnecessary link announced in some sections, including Individual Drug, Cases TOC, Lectures, and Readings pages. ● Global || Screen Reader does not read and notify users of some elements, including "has pop-up," selected state of some links, and loading progress status. ● Disabled state is not provided for search button on AccessMedicine

Criteria	Conformance Level	Remarks and Explanations
		- Screen reader is reading incorrect role for AccessMedicine, ACM - Patient Safety Modules, and Readings page 'Title' attribute not defined in the 'frame' tag for AccessMedicine and OMMBID - Tab-index is used on a non-interactive component - Collapsed state is incorrectly defined for links - Global || No label is provided for the PDF link in Book chapter - Global || Incorrect role is defined for button and tabs on selected pages - Links on the ACM - Patient Safety Modules do not have discernible text - Some labels use the same text label - Unwanted 'Current location link' state is defined for Review Question Landing Page links - Name and Role is not provided for all elements in External Updates, DDx, Standard table of contents, and Individual Case

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Web: **Supports**	There is no pre-recorded video content.
1.2.5 Audio Description (Prerecorded) (Level AA)	Web: **Supports**	Audio descriptions added to Video.
1.3.4 Orientation (Level AA 2.1 only)	Web: **Partially Supports**	Application user interface is restricted to a single display orientation with few exceptions. Below are the **exceptions:** - Content is Overlapping in Portrait Mode - Android tablet - OMMBID - AccessMedicine

Criteria	Conformance Level	Remarks and Explanations
[1.3.5 Identify Input Purpose](#) (Level AA 2.1 only)	Web: **Supports**	The purpose of each input field collecting information about the user can be programmatically determined when: • The input field serves a purpose identified in the Input Purposes for User Interface Components section; and • The content is implemented using technologies with support for identifying the expected meaning for form input data.

[1.4.3 Contrast (Minimum)](#) (Level AA)	Web: **Partially Supports**	The visual presentation of text and images of text has a contrast ratio of at least 4.5:1 and Large-scale text and images of large-scale text have a contrast ratio of at least 3:1 with few exceptions.
		
		Below are the **exceptions:**
		• Color Contrast fails
		   o Individual Update
		   o Cases TOC page
		   o Standard table of contents

[1.4.4 Resize text](#) (Level AA)	Web: **Partially Supports**	Text can be resized without assistive technology up to 200 percent without loss of content or functionality. Below are the **exceptions:** • Text getting truncated and overlapped at 200% zoom view o AccessMedicine
[1.4.5 Images of Text](#) (Level AA)	Web: **Partially Supports**	Text is used to convey information rather than images of text and any images of text have meaningful, descriptive Alt Text Below are the **exceptions:** • Color Contrast fails for Image of text o Book chapter

Criteria	Conformance Level	Remarks and Explanations

[1.4.10 Reflow](#) (Level AA 2.1 only)	Web: **Partially Supports**	• Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for:
		   ○ Vertical scrolling content at a width equivalent to 320 CSS pixels;
		   ○ Horizontal scrolling content at a height equivalent to 256 CSS pixels.
		   ○ For all the webpages the horizontal scroll bar appears for scrolling the page in the left and right direction. Page content is not reflowing when the page width is set to 320 CSS px.
		
		Below are the **exceptions:**
		• Text, image, links are missing, truncated, misaligned, and overlapped at 400% zoom view
		   ○ AccessMedicine
		   ○ JAMAEvidence
		   ○ Readings page
		   ○ Individual case
		   ○ Review Questions landing page
		   ○ Standard table of contents
		• Horizontal Scroll Bar appears at 400% zoom view
		   ○ AccessMedicine

[1.4.11 Non-text Contrast](#) (Level AA 2.1 only)	Web: **Partially Supports**	The visual presentation of the User Interface Components and Graphical Objects has a contrast ratio of at least 3:1 against adjacent color(s) with few exceptions.
		
		Below are the **exceptions:**
		• Color Contrast fails
		   ○ AccessMedicine
		   ○ Book chapter
		   ○ Individual Drug page

Criteria	Conformance Level	Remarks and Explanations
		o Case Files Collection Podcasts o Search o Lectures

[1.4.12 Text Spacing](#) (Level AA 2.1 only)	Web: **Partially Supports**	● In content implemented using markup languages that support the following text style properties, no loss of content or functionality occurs by setting all of the following and by changing no other style property:
		     o Line height (line spacing) to at least 1.5 times the font size.
		     o Spacing following paragraphs to at least 2 times the font size.
		     o Letter spacing (tracking) to at least 0.12 times the font size.
		     o Word spacing to at least 0.16 times the font size.
		
		Below are the **exceptions:**
		● Insufficient text-spacing, content getting truncated
		     o AccessMedicine
		     o JAMAEvidence

[1.4.13 Content on Hover or Focus](#) (Level AA 2.1 only)	Web: **Partially Supports**	Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden for dismissible, Hover able and Persistent.
		
		Below are the **exceptions**:
		● Tooltip popup is misaligned
		     o 2MM
		● The tooltip is not announced by the Screen reader
		     o 2MM

[2.4.5 Multiple Ways](#) (Level AA)	**Not Applicable**	**Not Applicable**

Criteria	Conformance Level	Remarks and Explanations
		More than one way is available to locate a Web page within a set of Web pages except where the Web Page is the result of, or a step in, a process.

2.4.6 Headings and Labels (Level AA)	Web: **Partially Supports**	• Headers describe the topic or purpose of the content below them.
		• Labels describe the purpose of the associated field.
		
		Below are the **exceptions:**
		• Labeling is not descriptive enough
		    ○ AccessMedicine
		    ○ NAPLEX landing page
		    ○ Lectures
		• Unnecessary heading level is implemented for the icons and texts
		    ○ Individual Update

2.4.7 Focus Visible (Level AA)	Web: **Supports**	Visible Focus indicator is displayed in most of the interactive elements
3.1.2 Language of Parts (Level AA)	Web: **Supports**	Proper use of the lang attribute for text passages that are in a different language than that of the page.
3.2.3 Consistent Navigation (Level AA)	Web: **Supports**	Navigational mechanisms that are repeated on multiple Web pages within a set of Web pages occur in the same relative order each time they are repeated, unless a change is initiated by the user.
3.2.4 Consistent Identification (Level AA)	Web: **Supports**	Components that have the same functionality within a set of Web pages are identified consistently.
3.3.3 Error Suggestion (Level AA)	Web: **Supports**	If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user, unless it would jeopardize the security or purpose of the content.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Web: **Supports**	For Web pages that cause legal commitments or financial transactions for the user to occur, that modify or delete user-controllable data in data storage systems,

Criteria	Conformance Level	Remarks and Explanations
		or that submit user test responses, at least one of the following is true: • Reversible: Submissions are reversible. • Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. • Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.
4.1.3 Status Messages (Level AA 2.1 only)	Web: **Supports**	Status information needs to be populated whenever the user does any action on the web application. That information needs to be identified by assistive technology.

Table 3: Success Criteria, Level AAA

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA)	Not Evaluated	Not Evaluated
1.2.7 Extended Audio Description (Prerecorded) (Level AAA)	Not Evaluated	Not Evaluated
1.2.8 Media Alternative (Prerecorded) (Level AAA)	Not Evaluated	Not Evaluated
1.2.9 Audio-only (Live) (Level AAA)	Not Evaluated	Not Evaluated
1.3.6 Identify Purpose (Level AAA 2.1 only)	Not Evaluated	Not Evaluated
1.4.6 Contrast (Enhanced) (Level AAA)	Not Evaluated	Not Evaluated
1.4.7 Low or No Background Audio (Level AAA)	Not Evaluated	Not Evaluated
1.4.8 Visual Presentation (Level AAA)	Not Evaluated	Not Evaluated
1.4.9 Images of Text (No Exception) (Level AAA)	Not Evaluated	Not Evaluated
2.1.3 Keyboard (No Exception) (Level AAA)	Not Evaluated	Not Evaluated
2.2.3 No Timing (Level AAA)	Not Evaluated	Not Evaluated
2.2.4 Interruptions (Level AAA)	Not Evaluated	Not Evaluated
2.2.5 Re-authenticating (Level AAA)	Not Evaluated	Not Evaluated
2.2.6 Timeouts (Level AAA 2.1 only)	Not Evaluated	Not Evaluated

Criteria	Conformance Level	Remarks and Explanations
2.3.2 Three Flashes (Level AAA)	Not Evaluated	Not Evaluated
2.3.3 Animation from Interactions (Level AAA 2.1 only)	Not Evaluated	Not Evaluated
2.4.8 Location (Level AAA)	Not Evaluated	Not Evaluated
2.4.9 Link Purpose (Link Only) (Level AAA)	Not Evaluated	Not Evaluated
2.4.10 Section Headings (Level AAA)	Not Evaluated	Not Evaluated
2.5.5 Target Size (Level AAA 2.1 only)	Not Evaluated	Not Evaluated
2.5.6 Concurrent Input Mechanisms (Level AAA 2.1 only)	Not Evaluated	Not Evaluated
3.1.3 Unusual Words (Level AAA)	Not Evaluated	Not Evaluated
3.1.4 Abbreviations (Level AAA)	Not Evaluated	Not Evaluated
3.1.5 Reading Level (Level AAA)	Not Evaluated	Not Evaluated
3.1.6 Pronunciation (Level AAA)	Not Evaluated	Not Evaluated
3.2.5 Change on Request (Level AAA)	Not Evaluated	Not Evaluated
3.3.5 Help (Level AAA)	Not Evaluated	Not Evaluated
3.3.6 Error Prevention (All) (Level AAA)	Not Evaluated	Not Evaluated

Legal Disclaimer

This report reflects the results of testing performed by Magic Software, Inc. in April 2022 on representative content contained in the Access Platform (Access Medicine) website. Some accessibility support features are content dependent. As a result, some compliance exceptions noted in this Accessibility Conformance Report arise from exceptions relevant to the specific content tested and similar content types may not reflect the same exceptions. Content accessibility may vary by component. This report is provided for information purposes only.