

Table S1. Anesthesiology residency websites: factors that were assessed on anesthesia residency websites and the tools used to evaluate each website.

Assessment Factors:	Definition:	Accessibility	Content Quality	Marketing	Technology	General Usability	Overall Usability	Assessment Tools	Applied Formula
<b>Alternative text</b>	<i>Missing image alternative text. This is used to offer a description of an image file contained on a webpage.</i>	15%		4%	4%	5%	6%	<i>Screaming Frog SEO Spider (Full)</i>	$(\text{Total Images} - \text{Missing Alt Text}) / \text{Total Images}$
<b>Amount of content</b>	<i>Assesses the amount of words present on an individual webpage.</i>	8%	33%	9%		5%	9%	<i>Screaming Frog SEO Spider (Full)</i>	$\text{Pages} > 600 \text{ words} / \text{Total pages}$
<b>Analytics</b>	<i>Utilizes a Google analytics service for tracking website traffic.</i>			4%	4%	3%	3%	<i>Browser Developer Tools (Free)</i>	Yes/No
<b>Broken Backlinks</b>	<i>Broken inbound backlinks. Backlinks are links from outside websites that link to the website of interest.</i>	8%		1%	8%	5%	4%	<i>AHREFS (Full)</i>	$(\text{Relative High} - \text{Broken backlinks}) / \text{Relative High}$
<b>Cascading Style Sheets (CSS)</b>	<i>Use of cascading style sheets (CSS) for meeting page design and styling standards.</i>	15%			8%	4%	5%	<i>Pingdom Tools (Free)</i>	Yes/No
<b>Domain age</b>	<i>The age of registered domain name.</i>			4%			1%	<i>GoDaddy WHOIS (Free)</i>	Absolute value
<b>Error page</b>	<i>Assesses for the number of error pages (4xx) within a given website.</i>			4%	8%	3%	3%	<i>Screaming Frog SEO Spider (Full)</i>	$(\text{Total Pages} - \text{Errors}) / \text{Total Pages}$
<b>Facebook</b>	<i>Number of Facebook likes for a company's social media page.</i>			8%		4%	3%	<i>Facebook (Free)</i>	$\text{Number of Likes} / \text{Relative High}$
<b>Headings</b>	<i>Number of missing H1 headers on a website.</i>	8%		4%	8%	5%	5%	<i>Screaming Frog SEO Spider (Full)</i>	$(\text{Total} - X) / \text{Total}$
<b>In-line CSS</b>	<i>Assesses for the use of embedded CSS throughout the site for additional page formatting.</i>	8%		1%	6%	5%	4%	<i>Pingdom Tools (Free)</i>	Yes/No
<b>Incoming Backlinks</b>	<i>Number of currently functioning backlinks.</i>			9%		5%	4%	<i>AHREFS (Full)</i>	$X / \text{Relative High}$
<b>Meta Data</b>	<i>Number of webpages missing meta descriptions.</i>	4%	13%	7%	4%	5%	6%	<i>Screaming Frog SEO Spider (Full)</i>	$(\text{Total} - X) / \text{Total}$
<b>Missing Files</b>	<i>Number of missing structured data files.</i>				8%	3%	2%	<i>Screaming Frog SEO Spider (Full)</i>	$(\text{Relative High} - X) / \text{Relative High}$

<b>Open Graph</b>	<i>Use of Facebook's Open Graph protocol</i>			4%	6%	4%	3%	<i>OpenGraphCheck (Free)</i>	Yes/No
<b>Popularity</b>	<i>Alexa Popularity Ranking</i>			9%		6%	4%	<i>Alexa Rankings (Free)</i>	(Relative High - X) / Relative High
<b>Printability</b>	<i>Whether the website utilizes printer-friendly CSS layouts.</i>				8%	5%	3%	<i>Pingdom Tools (Free)</i>	Yes/No
<b>Readability</b>	<i>Assesses the FK Reading Ease and Gunning Fog Index for reading difficulty and estimated grade level required for understanding.</i>	8%	33%	2%		5%	7%	<i>Readable (Free)</i>	FK 1/2: Absolute Value
									GF 1/2:(Relative High - X) / Relative High
<b>Redirections</b>	<i>Number of redirections (3xx) within a website.</i>	6%			6%	1%	2%	<i>Screaming Frog SEO Spider (Full)</i>	(Total - X) / Total
<b>Social Interest</b>	<i>Total number of all social media interest (Twitter and Facebook factors combined).</i>			11%		5%	5%	<i>Facebook and Twitter (Free)</i>	Facebook Likes + Twitter Follows
<b>Speed</b>	<i>The average website speed across multiple assesment tools.</i>	6%		3%	15%	10%	7%	<i>Pingdom Tools and</i>	(Relative High - X) / Relative High
								<i>Google Pagespeed Insights (Free)</i>	
<b>Spelling</b>	<i>Percentage of spelling errors within a given website.</i>		20%				2%	<i>Readable (Full)</i>	100 - X / 100
<b>Twitter</b>	<i>Number of Twitter followers for a comany's social media page.</i>			7%		3%	3%	<i>Twitter (Free)</i>	X / Relative High
<b>URL format</b>	<i>Use of URL formats that submit to current SSH protocol.</i>	7%		7%	4%	4%	5%	<a href="#"><u>MOZ URL Structure (Free)</u></a>	Yes/No
<b>W3C compliance</b>	<i>Number of W3C compliance errors within a website.</i>	8%			8%	5%	4%	<i>W3C Markup Validation Service (Free)</i>	(Relative High - X) / Relative High
		<b>Note: Percentages do not add to 100 for rounding purposes.</b>						<b>Note: Full means that it was the paid, commercially available, version of the product. Free means that it was a free or open-</b>	<b>Note: "X" indicates the obtained value.</b>