

WCCC Medical Photo Recommendations		
	Challenge	Solution
<b>Overall Gap Identified</b>	Inability to quantify the accuracy, <sup>1-5</sup> reliability, <sup>3,5,6</sup> and security of the photo as a source or supporting medical document. <sup>6-8</sup>	Use proven methods to measure the accuracy, <sup>2-5,9,10</sup> reliability, <sup>3,5,6,11</sup> and security of the photo. <sup>6-8</sup>
<b>Technical</b>	Inaccurate color due to device settings, <sup>12,13</sup> technical variability, <sup>2,3,13,14</sup> and uncontrolled lighting <sup>3,12-14</sup> contributes to inaccurate tissue typing, <sup>9</sup> and patient assessment. <sup>15</sup>	Use color calibration with a color chart <sup>4,9,13-18</sup> captured in the photo with the subject. <sup>4,9,12-18</sup> Use consistent light source. <sup>3,4,9,12-15,17,19,20</sup>
<b>Technique</b>	Inconsistency in photographer technique and patient positioning (distance, angle, lighting, background) distorts image, <sup>2,3,7,14</sup> and measurements. <sup>2,7,14</sup>	Optimize photo capture using alignment guides <sup>2,21</sup> and reference patient image <sup>14,21</sup> with calibrated methods/markers to determine scale <sup>9</sup> and correct skew. <sup>2,7</sup>
<b>Manipulation/Security</b>	Manipulation of medical photos (editing, filters, compression) undermines use for research, <sup>22,23</sup> legal, <sup>6,24</sup> and reimbursement. <sup>25</sup>	Employ methods for authentication, <sup>6,26,27</sup> security, <sup>6,26</sup> and audit trails. <sup>6,21,26,27</sup>

### References to supplementary material

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