Supplementary Online Content


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eFigure 3. Representative Photograph and Clinical Information Viewed by the Mobile Evaluators (High Quality)

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eFigure 5. Mobile Teledermatology Evaluation Form

This supplementary material has been provided by the authors to give readers additional information about their work.
**eFigure 1 Face to Face Evaluation Form**

Subject ID: ____ ____ ____ Reviewer ID: ____ ____

Diagnosis Number ____ of ____

<table>
<thead>
<tr>
<th>Test performed (circle all that apply):</th>
<th>None</th>
<th>Bx</th>
<th>Lab</th>
<th>Rad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pt Name</td>
<td>P/L</td>
<td>Pt DOB</td>
<td>MM/DD/YY:</td>
<td>Test Date</td>
</tr>
</tbody>
</table>

**Diagnostic Category (Circle One)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Congenital Anomaly</td>
<td>1</td>
</tr>
<tr>
<td>Dermal Fibroelastic Disorder</td>
<td>2</td>
</tr>
<tr>
<td>Drug Reaction</td>
<td>3</td>
</tr>
<tr>
<td>External Physical Injury/Trauma/Bite</td>
<td>4</td>
</tr>
<tr>
<td>Infection Bacterial</td>
<td>5</td>
</tr>
<tr>
<td>Infection Fungal Deep</td>
<td>6</td>
</tr>
<tr>
<td>Infection Fungal Superficial</td>
<td>7</td>
</tr>
<tr>
<td>Infection Mycobacterial</td>
<td>8</td>
</tr>
<tr>
<td>Infection Unspecified type</td>
<td>9</td>
</tr>
<tr>
<td>Infection Viral</td>
<td>10</td>
</tr>
<tr>
<td>Infestation/Parasitic</td>
<td>23</td>
</tr>
<tr>
<td>Inflammation Lichenoid</td>
<td>11</td>
</tr>
<tr>
<td>Inflammation Monocytic/Macrophage</td>
<td>12</td>
</tr>
<tr>
<td>Inflammation Panniculitis</td>
<td>13</td>
</tr>
<tr>
<td>Inflammation Papulosquamous</td>
<td>14</td>
</tr>
<tr>
<td>Inflammation Unspecified type</td>
<td>15</td>
</tr>
<tr>
<td>Inflammation Vasculitis</td>
<td>16</td>
</tr>
<tr>
<td>Neoplasm</td>
<td>17</td>
</tr>
<tr>
<td>Noninflammatory Panniculitic Disorder</td>
<td>18</td>
</tr>
<tr>
<td>Noninflammatory Vascular Anomaly or Disorder</td>
<td>19</td>
</tr>
<tr>
<td>Nutritional or Metabolic Disorder</td>
<td>20</td>
</tr>
<tr>
<td>Paraneoplastic</td>
<td>22</td>
</tr>
<tr>
<td>Pigmentation/Melanocytic Disorder</td>
<td>24</td>
</tr>
<tr>
<td>Other (Specify in Comments)</td>
<td>88</td>
</tr>
<tr>
<td>Unknown</td>
<td>99</td>
</tr>
</tbody>
</table>

**Certainty**

<table>
<thead>
<tr>
<th>Certainty</th>
<th>1st Dx</th>
<th>1st Dx Cat</th>
<th>Mgmt (circle one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certain</td>
<td>1</td>
<td>1</td>
<td>Treat</td>
</tr>
<tr>
<td>Mod CERTAIN</td>
<td>2</td>
<td>2</td>
<td>Test</td>
</tr>
<tr>
<td>Mod UNCERTAIN</td>
<td>3</td>
<td>3</td>
<td>Test and Treat</td>
</tr>
<tr>
<td>Uncertain</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Comments: __________

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### eFigure 2  Representative Screen Shots of the Mobile Phone Application

<table>
<thead>
<tr>
<th>Age of the patient</th>
<th>How long has the patient had this condition?</th>
<th>Which areas of the skin are currently involved? (check all that apply)</th>
<th>The rash consists of (check all that apply)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Newborn</td>
<td>1 Back</td>
<td>1 Small red bumps</td>
</tr>
<tr>
<td>2</td>
<td>Under 1 year old</td>
<td>2 Chest</td>
<td>2 Small skin colored bumps</td>
</tr>
<tr>
<td>3</td>
<td>1-10 years old</td>
<td>3 Abdomen</td>
<td>3 Blisters</td>
</tr>
<tr>
<td>4</td>
<td>10-30 years old</td>
<td>4 Arms</td>
<td>4 Pus bumps</td>
</tr>
<tr>
<td>5</td>
<td>30-40 years old</td>
<td>5 Limbs</td>
<td>5 Red scaly areas</td>
</tr>
<tr>
<td>6</td>
<td>40-60 years old</td>
<td>6 Scalp</td>
<td>6 Brown scaly areas</td>
</tr>
<tr>
<td>7</td>
<td>More than 60 years old</td>
<td>7 Face</td>
<td>7 Thickened skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 Eyes</td>
<td>8 Cracks in the skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 Mouth</td>
<td>9 A single spot</td>
</tr>
</tbody>
</table>

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• Age: 40-60 years old
• Sex: Male
• Other conditions: Infected with HIV, Infected with Tuberculosis
• Problem duration: More than one year
• Has the patient had this condition before? Yes
• Does anyone in the family have a similar condition? No
• Where was the first area where the rash began? Between the toes
• Which areas of the skin are currently involved? Between the toes, On bottom of feet
• Symptoms: Burning in the area of the rash, Occasional pain in the skin
• Rash properties: The rash comes and goes, The rash has gotten better over time
• Physical description of rash: Thickened skin, Cracks in the skin
• Treatments already tried: Antifungal creams
• Current medications taken: HIV infection
eFigure 4  Representative Photograph and Clinical Information Viewed by the Mobile Evaluators (Low Quality)

- Age: 20-40 years old
- Sex: Female
- Other conditions: Very ill due to the current skin condition, Infected with HIV, Infected with Tuberculosis
- Problem duration: About a week
- Has the patient had this condition before? No
- Does anyone in the family have a similar condition? No
- Where was the first area where the rash began? Legs
- Which areas of the skin are currently involved? Abdomen, Arms, Legs, All over (not in the mouth)
- Symptoms: Occasional itching around rash
- Rash properties: The rash is the same as when it started
- Physical description of rash: Small red bumps
- Current medications taken: HIV infection
eFigure 5

Mobile Teledermatology Evaluation Form

Subject ID: ___ ___ ___ Reviewer ID: ___ ___

Diagnosis Number ___ of ___

Overall Picture Quality (circle one):

- Good
- Satisfactory
- Poor

<table>
<thead>
<tr>
<th>Diagnostic Category (Circle One)</th>
<th>DDX#</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Abscess</td>
<td></td>
</tr>
<tr>
<td>2. Acne</td>
<td></td>
</tr>
<tr>
<td>3. ANUG</td>
<td></td>
</tr>
<tr>
<td>4. Angular cheilitis</td>
<td></td>
</tr>
<tr>
<td>5. Atopic dermatitis</td>
<td></td>
</tr>
<tr>
<td>6. Candidiasial</td>
<td></td>
</tr>
<tr>
<td>7. Cellulitis</td>
<td></td>
</tr>
<tr>
<td>8. Chancroid</td>
<td></td>
</tr>
<tr>
<td>9. Condyloma acuminate</td>
<td></td>
</tr>
<tr>
<td>10. Dermatophytosis (nail)</td>
<td></td>
</tr>
<tr>
<td>11. Dermatophytosis (not nail)</td>
<td></td>
</tr>
<tr>
<td>12. Disseminated deep fungal</td>
<td></td>
</tr>
<tr>
<td>13. Disseminated mycobacterium</td>
<td></td>
</tr>
<tr>
<td>14. Folliculitis</td>
<td></td>
</tr>
<tr>
<td>15. Herpes simplex</td>
<td></td>
</tr>
<tr>
<td>16. Herpes zoster</td>
<td></td>
</tr>
<tr>
<td>17. Hypersensitivity reaction</td>
<td></td>
</tr>
<tr>
<td>18. Hypersensitivity syndrome</td>
<td></td>
</tr>
<tr>
<td>19. Kaposis's sarcoma</td>
<td></td>
</tr>
<tr>
<td>20. Lineal gingival erythema</td>
<td></td>
</tr>
<tr>
<td>21. Lipodystrophy</td>
<td></td>
</tr>
<tr>
<td>22. Local deep fungal or mycobacterial</td>
<td></td>
</tr>
<tr>
<td>23. Lymphoma</td>
<td></td>
</tr>
<tr>
<td>24. Molluscum contagiosum</td>
<td></td>
</tr>
<tr>
<td>25. Oral leukoplaia (NOT OHL)</td>
<td></td>
</tr>
<tr>
<td>26. Oral hairy leukoplaia</td>
<td></td>
</tr>
<tr>
<td>27. Papular pruritic eruption</td>
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</tr>
<tr>
<td>28. Psoriasis</td>
<td></td>
</tr>
<tr>
<td>29. Pyomyositis</td>
<td></td>
</tr>
<tr>
<td>30. Recurrent oral ulceration</td>
<td></td>
</tr>
<tr>
<td>31. Scabies</td>
<td></td>
</tr>
<tr>
<td>32. Seborrheic dermatitis</td>
<td></td>
</tr>
<tr>
<td>33. SJS/TEN</td>
<td></td>
</tr>
<tr>
<td>34. Squamous cell carcinoma</td>
<td></td>
</tr>
<tr>
<td>35. Syphilis</td>
<td></td>
</tr>
<tr>
<td>36. Verruca vulgaris</td>
<td></td>
</tr>
<tr>
<td>37. Xerosis</td>
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</tr>
<tr>
<td>88. Other Dx Category (Specify in Comments)</td>
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<tr>
<td>99. Unknown</td>
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</table>

<table>
<thead>
<tr>
<th>Diagnostic Certainty for Dx Category (circle one)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Certain</td>
<td>1</td>
</tr>
<tr>
<td>Moderately certain</td>
<td>2</td>
</tr>
<tr>
<td>Moderately uncertain</td>
<td>3</td>
</tr>
<tr>
<td>Uncertain</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnostic Certainty for 1 Dx (circle one)</th>
<th>Mgmt (circle one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certain</td>
<td>Treat</td>
</tr>
<tr>
<td>Moderately certain</td>
<td>Test</td>
</tr>
<tr>
<td>Moderately uncertain</td>
<td>Test and Treat</td>
</tr>
<tr>
<td>Uncertain</td>
<td>Refer for FTF</td>
</tr>
</tbody>
</table>