Online Photo Challenge via Google Form
An Educational Innovation to Stimulate Effective Learning in Ophthalmology

Author: Sakchai Vongkittirux, M.D.
Picha Thunpimon, M.D.
Date: 27 September 2019
I do not have an affiliation (financial or otherwise) with a pharmaceutical, medical device or communications organization.

Je n’ai aucune affiliation (financière ou autre) avec une entreprise pharmaceutique, un fabricant d’appareils médicaux ou un cabinet de communication.
Photo Challenge

• What is Photo Challenge?
  > A learning method developed to assess residents’ knowledge

• Why Photo Challenge?
  > The learning process in Ophthalmology emphasizes visual disease manifestations, which can be traced to aspects such as epidemiology, pathophysiology, clinical manifestations and management.
  > Contemporary teaching methods of lecturing are often insufficient for facilitating learning
  > Instructors find it difficult to evaluate the knowledge and understanding of students after lectures alone.
Photo Challenge

RULE

– DESCRIBE WHAT YOU SEE
– PROVIDE “PROVISIONAL DIAGNOSIS” AND/OR “DIFFERENTIAL DIAGNOSIS”
– TELL US EVERYTHING YOU KNOW ABOUT THE DISEASE
(EPIDEMIOLOGY, PATHOPHYSIOLOGY, CLINICAL MANIFESTATION, TREATMENT, PATHOLOGY, HISTOLOGY, RESEARCH AND ETC.)

BEFORE WE START

– THERE WILL BE 6 PHOTOS CHALLENGE
– Residents from first, second and third year will be divided into three groups.
– 3rd Year resident will take turn adding up the missing detail in each photo after 1st and 2nd year resident
– At the end of each challenge, knowledge and summary will be provided by our skillful and experienced staffs.
– Scores will be announced at the end of the session to find the winner
DESCRIBE WHAT YOU SEE AND TELL US ALL YOU KNOW
Photo Challenge via Google Form

• What is it?
  > Developed online version of photo challenge
  > Evaluate residents in each year with the same photos
  > 5 minutes is given per each photo
  > After the time is over, the instructors will then go through all the answers and discuss with the team.
Why the online version?

- Everyone gets the chance to do the challenge of all photos
- Residents’ understanding can be evaluated from what they type.
**Photo Challenge**

**Photo Number 2**

Describe everything you know (EPIDEMIOLOGY, PATHOPHYSIOLOGY, CLINICAL MANIFESTATION, INVESTIGATION, MANAGEMENT, PATHOLOGY, HISTOLOGY, RESEARCH AND ETC.)

**Name:** Thanakrit sorasit

<table>
<thead>
<tr>
<th>Timestamp</th>
<th>Name</th>
<th>Photo Number 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/21/2019</td>
<td>Limbal dermoid</td>
<td>Well circumscribed mass At inferolateral RE. No feeding vessel smooth surface,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>soft consistency</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dx. Limbal dermoid of RE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Associate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Golden har - collin syndrome</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- lid coloboma</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- limbal dermoid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Vertribal abnormally</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- CNs abnormally</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mx.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not involved visual axis - observe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Involved visual axis &gt; amblyopia &gt;&gt; keratectomy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mass &lt; 2 mm observe</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Large mass - superficial keratectomy</td>
</tr>
<tr>
<td>2/21/2019</td>
<td>Indication sx</td>
<td>ambryopia</td>
</tr>
<tr>
<td>15:53:43</td>
<td></td>
<td>mass deep to stromal</td>
</tr>
</tbody>
</table>
Evaluation

• Ophthalmology residents participating in Online Photo Challenges preferred the activity than Photo Challenge
  > They are able to
    » Summarize and self-evaluate themselves during and after the challenge
    » Practice clinical thinking processes by attempting to summarize the clinical diagnosis from important findings, provide differential diagnosis and management of the disease

• Instructors are able to assess their students’ degree of success in learning outcomes and provide instant feedback.
Conclusion

• The online Photo-Challenge activities are engaging for learners and enable them to summarize their knowledge, applicable to everyday practice and, in addition, evaluate themselves after the quiz.

• Instructors are able to emphasize knowledge and guide clinical thinking relevant to the learning outcomes after each session.
Discussion

• The Online Photo Challenge is
  > Suitable for Ophthalmology learning
  > Effective for students to achieve learning outcomes as well as gain straightforward assessment from instructors

• This teaching method can also be applicable to other studies where photographs are an important element in the learning process.
Help us improve. Your input matters.

• Download the ICRE App, or
• Go to: www.royalcollege.ca/icre-evaluations to complete the session evaluation.

Aidez-nous à nous améliorer. Votre opinion compte!

• Téléchargez l’application de la CIFR
• Visitez le www.collegeroyal.ca/evaluationscifr afin de remplir une évaluation de la séance.

You could be entered to win one complimentary registration for ICRE 2020 in Vancouver.
Vous pourriez participer au tirage d’une inscription gratuite à la CIFR 2020 à Vancouver.