Endoscopy Education through On-line Community E-mail

Jun Haeng Lee.
Sungkyunkwan University School of Medicine, Seoul, Korea
Today’s topics

• Brief thinking on education
• Basic endoscopy training course at SMC
• How to keep CEE (continuous endoscopy education) through sending daily e-mail endoscopy education material (*EndoTODAY*).
Brief thinking on education

Jun Haeng Lee.
Sungkyunkwan University School of Medicine, Seoul, Korea
Classical learning environment

- Small group
- Experienced teacher
- Nice textbook
- Repetition
- Positive/negative feedback
- Not only simple knowledge but also philosophy
Learning from the Patient: Essentials of Clinical Teaching Workshop
February 14-17, 2010
University of Hawaii John A. Burns School of Medicine, Honolulu, Hawaii USA

Middle row: Shigehito Miyagi, Satoru Takebayashi, Kei Sarai, Nobuaki Kadoi, Seong Hyeon Yun, Katsunori Isa, Yong Bum Kim, Gyeong-Moon Kim
Back row: Hiroshi Yoshida, Nakaya Saito, Joji Inamasu, Suk-Joo Choi, Takeshi Sugimoto, Hideo Kanehara, Masaru Kimata
Tips for successful clinical teaching

• Know your learner
  – Their goal and expectations
  – Their past experiences
  – Their knowledge and gaps

• Use teaching tools that are time-efficient

• Use teaching tools that distribute the learning

• Extend learning beyond actual contact time
Endoscopy box simulator training
(Traditional) Classic method

- Short period of observation
- Insertion

Recent approach

- Basic lectures and book-reading
- Description exercise with feedback
- Simulator training
- Clinical observation
- EGD under coaching
- CEE (Conference, EndoTODAY)
Basic endoscopy training at SMC

Jun Haeng Lee.
Sungkyunkwan University School of Medicine, Seoul, Korea
# Basic endoscopy training course at SMC

### 1. Program overview

<table>
<thead>
<tr>
<th>SMC basic endoscopy training course (3 months)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program</strong></td>
</tr>
<tr>
<td><strong>On-line lecture</strong></td>
</tr>
<tr>
<td><strong>Staff lecture</strong></td>
</tr>
<tr>
<td><strong>Book &amp; Journal club</strong></td>
</tr>
<tr>
<td><strong>Weekly description training</strong></td>
</tr>
<tr>
<td><strong>Gastric cancers 1,000</strong></td>
</tr>
<tr>
<td><strong>Weekly conference</strong></td>
</tr>
<tr>
<td><strong>Observation and hands-on</strong></td>
</tr>
<tr>
<td><strong>Others</strong></td>
</tr>
</tbody>
</table>
Self learning materials (YouTube)
Basic lectures by professors and book-reading with coaching

<table>
<thead>
<tr>
<th>일정</th>
<th>강사</th>
<th>내용</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-03-02</td>
<td>이준행</td>
<td>Introduction</td>
</tr>
<tr>
<td>2017-03-23</td>
<td>민양원</td>
<td>조기위암과 진행성 위암</td>
</tr>
<tr>
<td>2017-04-06</td>
<td>이준행</td>
<td>내시경 용어</td>
</tr>
<tr>
<td>2017-05-04</td>
<td>이혁</td>
<td>소화성 궤양</td>
</tr>
<tr>
<td>2017-06-01</td>
<td>이준행</td>
<td>내시경 사진을 보고 병소의 위치를 찾는 법</td>
</tr>
<tr>
<td>2017-06-22</td>
<td>김은란</td>
<td>대장 용종과 대장암</td>
</tr>
<tr>
<td>2017-07-06</td>
<td>이준행</td>
<td>위궤양</td>
</tr>
<tr>
<td>2017-09-07</td>
<td>홍성노</td>
<td>염증성 장질환</td>
</tr>
<tr>
<td>2017-10-12</td>
<td>민양원</td>
<td>식도 질환</td>
</tr>
<tr>
<td>2017-11-02</td>
<td>이준행</td>
<td>안전하고 편안한 위내시경 삽입법</td>
</tr>
<tr>
<td>2017-11-23</td>
<td>김태준</td>
<td>십이지장 질환</td>
</tr>
<tr>
<td>2017-12-07</td>
<td>이준행</td>
<td>증례로 살펴보는 위내시경</td>
</tr>
</tbody>
</table>
Description exercise with feedback

http://endotoday.com/endotoday/learning.html
Box simulator training
Monday conference with lunch box
Thursday conference with lunch box
If you feed them, they will come: A prospective study of the effects of complimentary food on attendance and physician attitudes at medical grand rounds at an academic medical center

Colin M Segovis, Paul S Mueller, Melissa L Rethlefsen, Nicholas F LaRusso, Scott C Litin, Ayalew Tefferi and Thomas M Habermann

Table 4: Responses to the Question "How has your attendance at Medical Grand Rounds changed as a result of free food?"

<table>
<thead>
<tr>
<th>Response</th>
<th>Total (n = 442)</th>
<th>Faculty (n = 262)</th>
<th>Fellow (n = 73)</th>
<th>Resident (n = 86)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Much more frequent</td>
<td>14.9</td>
<td>10.7</td>
<td>26.0</td>
<td>22.1</td>
</tr>
<tr>
<td>Slightly more frequent</td>
<td>38.7</td>
<td>35.9</td>
<td>42.5</td>
<td>47.7</td>
</tr>
<tr>
<td>Not at all</td>
<td>44.1</td>
<td>51.1</td>
<td>28.8</td>
<td>27.9</td>
</tr>
<tr>
<td>Less frequent</td>
<td>1.4</td>
<td>1.1</td>
<td>1.4</td>
<td>2.3</td>
</tr>
<tr>
<td>Much less frequent</td>
<td>0.9</td>
<td>1.1</td>
<td>1.4</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Table 5: Responses to the Question "How would your attendance at Medical Grand Rounds change if food ceased being provided free of charge?"

<table>
<thead>
<tr>
<th>Response</th>
<th>Total (n = 441)</th>
<th>Faculty (n = 262)</th>
<th>Fellow (n = 74)</th>
<th>Resident (n = 86)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase significantly</td>
<td>0.5</td>
<td>0.8</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Increase somewhat</td>
<td>2.5</td>
<td>3.5</td>
<td>1.4</td>
<td>1.2</td>
</tr>
<tr>
<td>No change</td>
<td>44.0</td>
<td>51.5</td>
<td>28.4</td>
<td>25.6</td>
</tr>
<tr>
<td>Decrease somewhat</td>
<td>40.6</td>
<td>37.3</td>
<td>48.6</td>
<td>48.8</td>
</tr>
<tr>
<td>Decrease significantly</td>
<td>12.5</td>
<td>6.9</td>
<td>21.6</td>
<td>24.4</td>
</tr>
</tbody>
</table>
Occasional night-time learning
- One point lesson
On-line archives

1. Gallstones in the stomach due to gastrocholecystic fistula

2. Cardia cancer

Rectal cancer: ESD를 시행한 경우도 귀하의 70대 남성.

EndoTODAY Beginner Center

1) SMC basic endoscopy course
2) Starting endoscopy
3) Basic VODs
4) Manual (quick reference)
5) 내시경 용어, 소견 기술법, 분류법
6) 2017 내과학의 내시경입문교육

1. EndoATLAS (Index)
2. EndoTODAY Parasitology
3. EndoTODAY Outpatient clinic
4. 내시경실 - 소화기질환(月), 내시경질환(木), Quiz
5. EsoTODAY, SmallTODAY, ColonTODAY, LiverTODAY
6. Gastric cancer 1,000. Season 4. Recent update

2017-2-22
After initial endoscopy training, we rely too much on PULL for CEE (Continuous Endoscopy Education).
How to keep CEE?

Daily e-mail learning (EndoTODAY)

Jun Haeng Lee.
Sungkyunkwan University School of Medicine, Seoul, Korea
Personal homepage (1999)

이준행 소화기내과 (serioso.pe.kr)

소화기학 정보마당

1. Monthly Endoscopy School 2004: introduction, 위암, 내시경시전, 내시경영상의 재생과 이용, 소화성궤양, 소화성질환, achalasia
2. 체중노션 - 치료내시경 Q and A
3. Upper Gt Tract - EMR
4. Lower Gt Tract
5. Molecular Biology - MSI, apoptosis
6. Miscellaneous - 의학통계, 기생충
7. Medical Links
8. 짧은 노트: endoscopy, stomach, Hp, bowel, quality, news, memo

방명록/게시판(BBS)

재 환페이지에 번째로 방문하셨습니다. (since 1999.8.23)
E-mail answer using the intranet
Daily E-mail learning (EndoTODAY)
Number of daily EndoTODAY recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>500</td>
</tr>
<tr>
<td>2014</td>
<td>1000</td>
</tr>
<tr>
<td>2015</td>
<td>1500</td>
</tr>
<tr>
<td>2016</td>
<td>2000</td>
</tr>
<tr>
<td>2017</td>
<td>2500</td>
</tr>
</tbody>
</table>

2017 (2017-6-3)
An interactive program.
- A lot of questions and comments
When do you read the EndoTODAY?

How much do you read the contents among all the EndoTODAY received?

How much do you take the time to read the EndoTODAY?
Conclusions of the survey

• Successfully established a daily E-mail learning program using an Intranet.

• EndoTODAY is a new and useful method for teaching and learning interesting cases during busy working hours.
Thank you letter (1)
• 애독자의 편지: 기생충 반복 학습 덕분에 제가 명의가 되었습니다. XX세 남자로 작년부터 항문이 가렵고 뭔가 기어나와서 당기면 끊기는 일을 수 차례 경험하려고 합니다. 동네 내과에서 2차례 기생충약을 먹었습니다. 최근 다시 항문 이물감으로 내원하였습니다. 직장 경에서 긴 tapeworm(조충)을 발견하였습니다. 당기다가 중간에 끊겨서 좀 아쉽지만 1미터 50센티는 되는 것 같았습니다. 보호자는 매우 만족하여 귀가했습니다. 감사합니다.

• EndoTODAY 답변: 정말 훌륭한 일을 하셨습니다. 충체의 편절이 넓은 직사각형 모양이고 uterus와 ovary가 꺼져서 동글게 보이므로 D. latum일 가능성이 커 보입니다. 기생충학 교실로 보내서 확인하십시오. Praziqantel 10mg/kg 한번 투약하십시오. 조금 더 드려도 됩니다. 앞으로도 무차별 반복형 주입식 교육자료 계속 보내겠습니다.
Even after initial endoscopy training, we can keep CEE (Continuous Endoscopy Education) by push daily endoscopy education material using e-mail (EndoTODAY).
EndoTODAY

- A new education platform
  - Time-efficient
  - Contributes for the distribution of the learning experience
  - Extends teaching and learning beyond actual contact time.
Please visit http://endotoday.com