5 Ways to Improve Small Group Teaching
November 20th 2013

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Please sit in small groups

Learning Objectives:

1. Formulate measurable and realistic learning objectives

2. Develop a small group instructional session that incorporates effective teaching strategies
Ebbinghaus “Forgetting Curve”
Recall of facts presented during lecture

Use of Active Learning Strategies?

![Graph showing score on test versus minutes in lecture for a punctuated lecture.](chart.png)

Step 1

Develop SMART Learning Objectives
GOAL SETTING

S - SPECIFIC
M - MEASURABLE
A - ATTAINABLE
R - RELEVANT
T - TIME-BOUND
## Interface of Learning Objectives and Teaching Strategies

### Teaching Strategies Related to Learning Objectives

**Cognitive Processing Dimension**
- **KNOWLEDGE**
  - define
  - list
  - record
  - repeat
- **COMPREHENSION**
  - employ
  - differentiate
  - propose
- **APPLICATION**
  - contrast
  - organize
  - value
- **ANALYSIS**
  - estimate
  - rate
  - calculate
  - design
  - score
  - select
- **SYNTHESIS**
  - estimate
  - arrange
  - evaluate
  - compose
  - judge
  - measure
- **EVALUATION**
  - appraise
  - assess
  - choose

### Cognitive Processing Dimension

- **Teaching Strategies Related to Learning Objectives**
  - examples
  - illustrations
  - analogies
  - lecture
  - visuals
  - video
  - audio
  - test
  - review
  - discussion
  - assessment
  - reports
  - application
  - adaptations
  - exercises
  - demonstrations
  - questions
  - projects
  - sketches
  - review
  - simulations
  - role play
  - microteach
  - assessment
  - reports
  - application
  - adaptations
  - exercises
  - demonstrations
  - questions
  - projects
  - sketches
  - review
  - simulations

### Learning Objectives

- **KNOWLEDGE**
  - define
  - identify
  - recognize
  - perform
  - question
  - relate
- **COMPREHENSION**
  - employ
  - differentiate
  - propose
- **APPLICATION**
  - contrast
  - organize
  - value
- **ANALYSIS**
  - estimate
  - rate
  - calculate
  - design
  - score
  - select
- **SYNTHESIS**
  - estimate
  - arrange
  - evaluate
  - compose
  - judge
  - measure
- **EVALUATION**
  - appraise
  - assess
  - choose

### Adapted from:

Ellen F. Goldman, EdD 11-1-2010
Careers in Pediatric Endocrinology

Objectives: At the end of the session, participants should be able to:

• Understand the advantages and disadvantages of careers in academia

• Understand the advantages and disadvantages of careers in private practice

• Understand the advantages and disadvantages of careers in industry
Careers in Pediatric Endocrinology

Objectives: At the end of the session, participants should be able to:

• Describe the differences between careers in academic, private practice and industry

• Evaluate how these choices could influence individual career goals
Turning your QI project into Publishable Research

Objectives: At the end of the session, participants should be able to:

• Describe important features of a competitive QI paper for peer reviewed publication which include rigorous QI methods

• Practice identifying rigorous methods, selecting a target journal, and outlining a paper for a sample QI project

• Identify study methods, select a target journal and outline a paper for their own QI project

Workshop PAS 2013
Turning your QI project into Publishable Research

Objectives: At the end of the session, participants should be able to:

• Describe important features of a QI paper that would be accepted in a peer reviewed publication

• Create an outline of a paper for your own QI project
Step 2

Pick a strategy
Simulations

Outer Circle

Inner Circle
Bedside Teaching

Defining Features Matrix

<table>
<thead>
<tr>
<th>Feature</th>
<th>HSV Encephalitis</th>
<th>Supports dx</th>
<th>Refutes dx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fever</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Clear rhinorrhea</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Rash</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Comparison Groups

<table>
<thead>
<tr>
<th>Disease</th>
<th>HSV Encephalitis</th>
<th>GBS Meningitis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fever</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Clear rhinorrhea</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rash</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
Step 3

Help the learners shine
Our Teaching Challenge

from Fill the Vessel to Help the Garden Grow
Effective facilitators ensure small group interaction

Teacher Centered

Student Centered
Step 4

Check In
Check In: Muddiest Point
Step 5

Lock it In
Lock it In
5 Ways to Improve Small Group Teaching

Step 1: Develop SMART Learning Objectives
Step 2: Pick a strategy
Step 3: Help the learners shine
Step 4: Check in
Step 5: Lock it in