

# **Teaching Tools – Small Groups**

**Angela Jackson, MD**

Associate Dean, Student Affairs

Associate Professor of Medicine

Boston University Chobanian and

Avedesian School of Medicine

# The Adult Learning Process

Adult learners want:

- To help set the learning objectives
- To use what they learn right away
- To problem solve, not just learn facts
- Feedback, so they can evaluate their own progress

**Andragogy: Adult Learning Theory in Perspective**  
Malcolm S. Knowles 1978

# Adult Learning Process

Help set the

learning objectives



**Collaborative**

Use what

they learn right away



**Clinically relevant**

Problem solve



**Practical**

Includes feedback



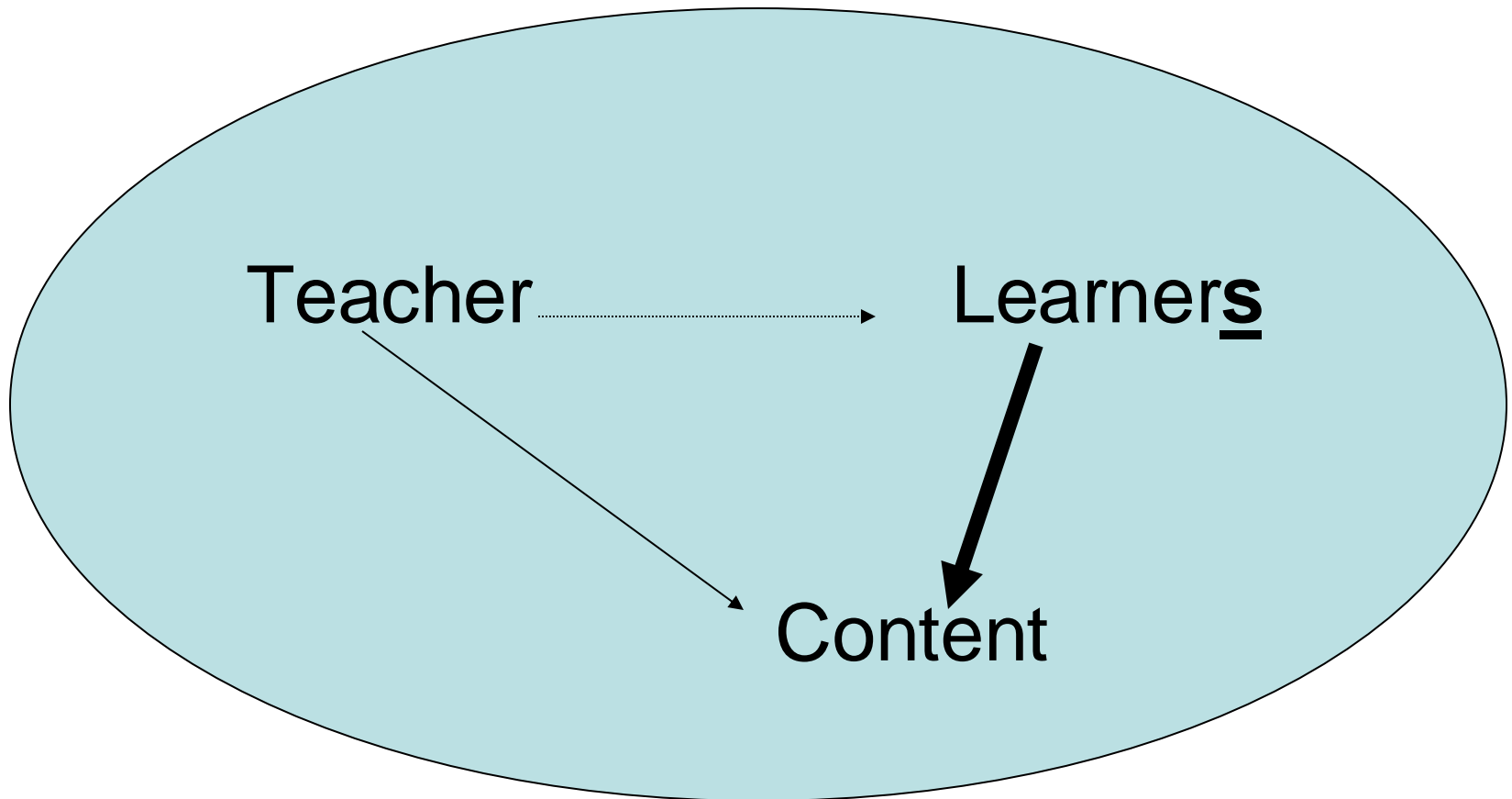
**Encourages self-  
assessment**

# Small Group Learning

- Origin: 1700s German research seminars and 1800s Oxford tutorials
- Defined by DIALOGUE and COLLABORATION= Student engagement

# Small Group Session Dynamics:

Context



# Small Group Learning:

- Promotes higher level of reflective thinking, problem solving, concept application, attitudinal change
- Collaborative, based on interaction
  - Between learners
  - Between teacher and learner
  - Between existing and new information

# **Small Group Learning**

**Shared responsibility for  
the learning process**

# Small Group Learning

Shared responsibility for the learning process

**Defined by the *process***



# Small Group: Role of the Teacher

- **Coordinate** as much as Communicate
- **Facilitate**, rather than direct
- “**Scaffolding**” around which the learner organizes new information
- **Inspire** rather than inform

# Small Group Opportunities:

- Highlight misconceptions and individual knowledge gaps - *unlearning*
- Model good question development
- Provide immediate feedback

# Small Group Learning: Preparation

- Just show up and start a conversation?
- Balance of informality and academic rigor
- Informal and unstructured in order to work, but...



"And so you just threw everything together? ... Mathews, a posse is something you have to *organize*."

# **Small Group Teaching: Planning the Session**

Before you start...

**Who?**

**What?**

**How?**

# Small Group Opportunities:

- Assess the learner's needs and learning agenda
- Observe learner's reasoning skills
- Encourage self-assessment (metacognition)

# Small Group Teaching: Planning the Session

- **Who** are your learners?
  - Motivation level?
  - Background knowledge?
  - What do they want to learn?

# Small Group Teaching: Planning the Session

- What do you want to accomplish in the session?
  - “Need to know” vs “Nice to know”
  - What three points should they walk away with?



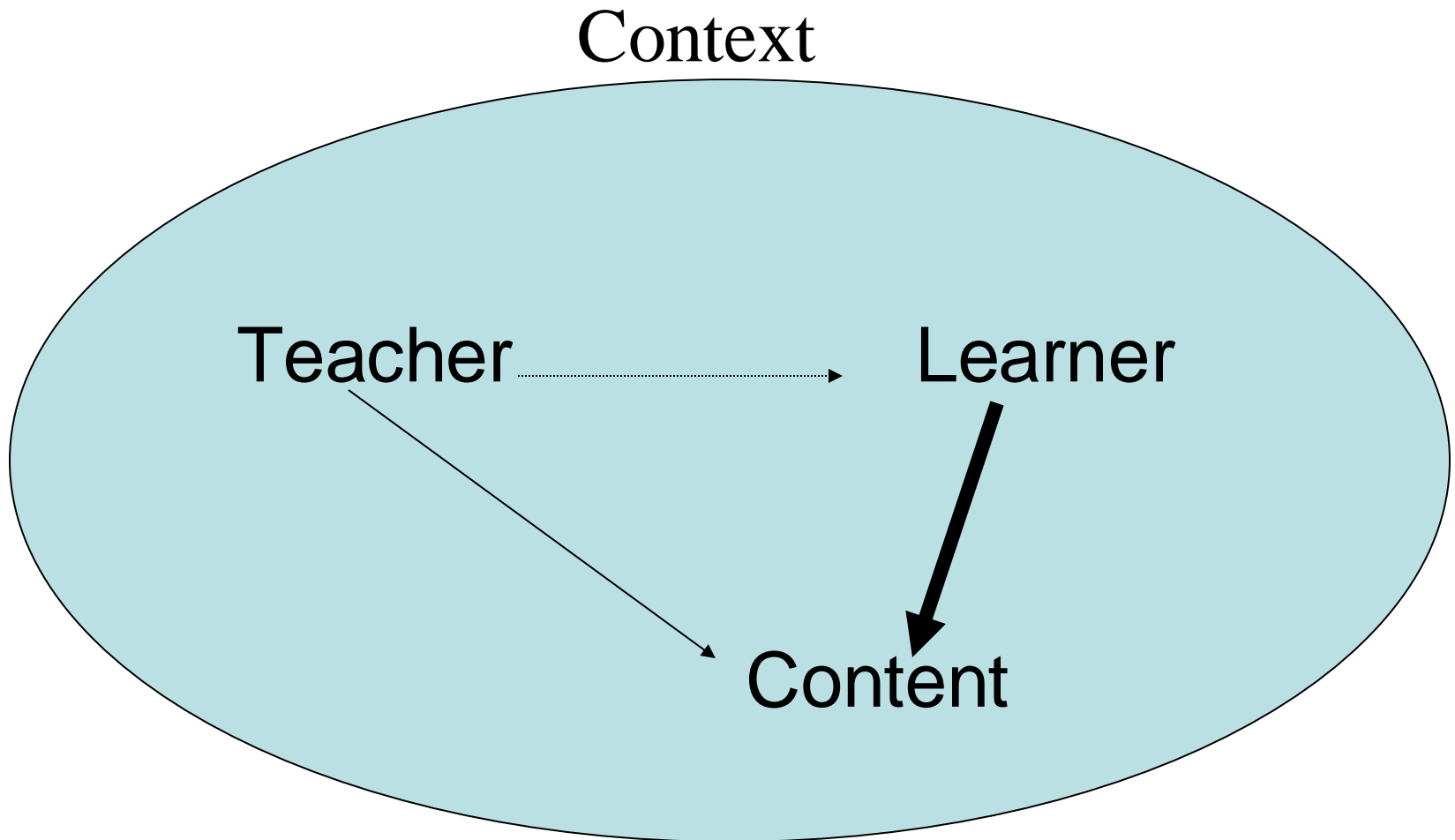
# Small Group Teaching: Planning the Session

- How will you meet your teaching goals?
  - Techniques to use
  - Keep them involved
- How will you know that they are learning?

# Small Group Session Work Sheet:

- Who are your learners?
- What do you want to accomplish in the session?
- What is challenges do you anticipate?
- How will you meet your teaching goals?
- How will you know that they are learning?

# Small Group Teaching:



# Small Groups: Your Role

- prepare the general plan for the session
- set the tone for the session
- pay attention to the environment
- encourage participation
- keep the discussion on track
- time management
- help the learners prepare

# Small Groups: Their Role

- The GOOGLER
  - The Note Taker
  - The Time Keeper
- 
- Come prepared- pre-reading, case review, define questions, hot topics

# **Adult Learning Process**

- **Collaborative**
- **Clinically relevant**
- **Practical**
- **Encourages self-assessment**

# **Small Group Teaching: Running the Session**

## **Tips and Techniques**

# **Small Group Teaching: Running the Session**

## **Tips and Techniques:**

- Know their names- and use them**



# **Small Group Teaching: Running the Session**

## **Tips and Techniques:**

- Know their names- and use them
- **Learners should talk to each other**

# **Small Group Teaching: Running the Session**

## **Tips and Techniques:**

- Know their names- and use them
- Learners should talk to each other
- **Count to 10**

# **Small Group Teaching: Running the Session**

## **Tips and Techniques:**

- Know their names- and use them
- Learners should talk to each other
- Count to 10
- **The “Coffee Cup Technique”**

# **Small Group Teaching: Running the Session**

## **Tips and Techniques:**

- Know their names- and use them
- Learners should talk to each other
- Count to 10
- The “Coffee Cup Technique”
- **3 x 5 cards**

# **Small Group Teaching: Running the Session**

## **Tips and Techniques:**

- Know their names- and use them
- Learners should talk to each other
- Count to 10
- The “Coffee Cup Technique”
- 3 x 5 cards
- **Use summary statements for key points**

# **Small Group Learning: Running the Session**

## **Using Questions as Teaching Tools:**

# Questions can:

- Activate prior knowledge
- Explore misconceptions
- Reinforce accurate reasoning
- Promote additional insight
- **“Right answer” vs “Reasoning Skills”**

# Small Group Learning:

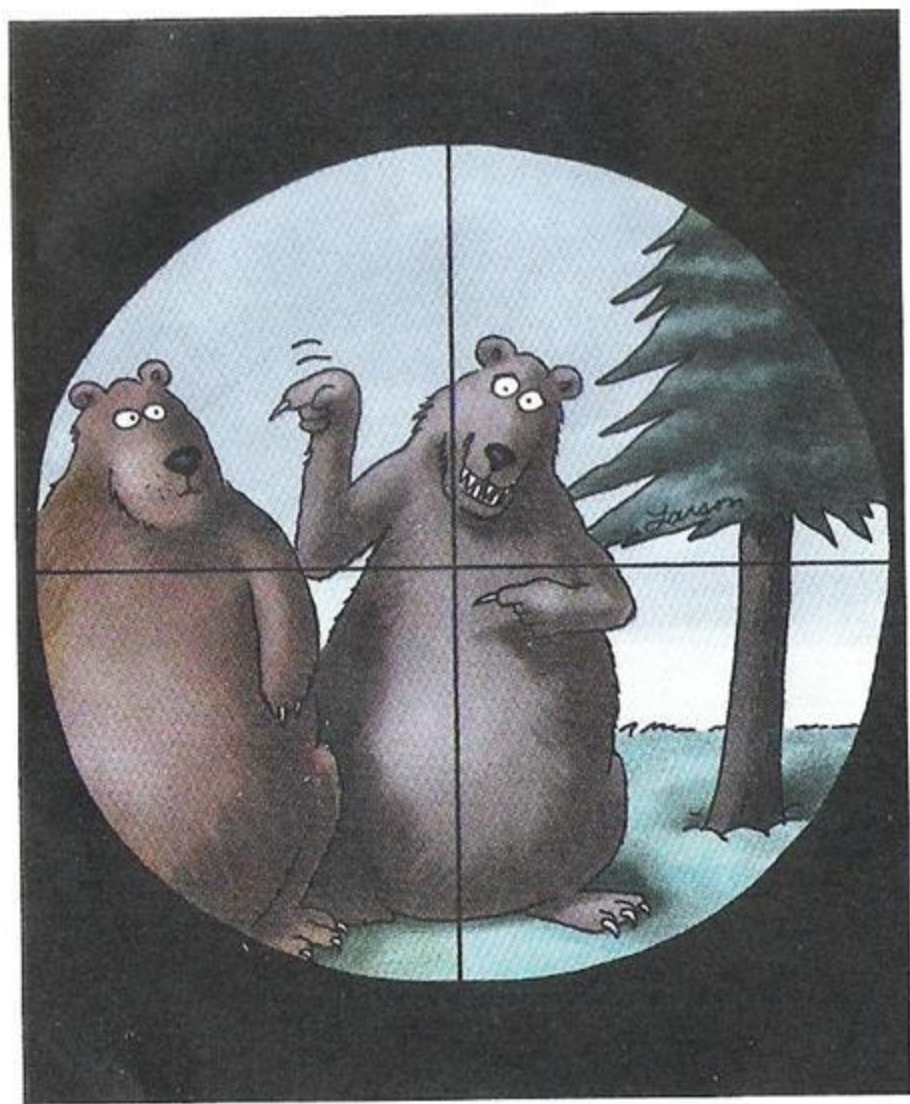
## By asking questions you can...

- Assess learners' knowledge level: “**NEED** to know?”
- Elicit their learning agenda: “**WANT** to know?”
- Promote active thinking
- Assess their understanding of what is being discussed: *Link new concepts with “real life” scenarios*



# **Small Group Learning: Using Questions as Teaching Tools**

**“Pimping” vs “Teaching”**



# Small Group Learning: Using Questions as Teaching Tools

- “Pimping” vs “Teaching”
  - Brancati JAMA 1989
  - Detsky JAMA 2009
- What is the “Socratic Method”?

# **Socrates used questions as teaching tools, not pimping...**

Questions about unknowable “truth”

- Existing beliefs placed in question
- Confusion and Doubt
- CURIOSITY
- Search for further truth through discussion

# Small Group: Types of Questions

- **Recall:** first level of interaction with the material  
*(list, name, report, define)*
- **Analysis/ Synthesis:** demonstrate understanding *(compare, categorize, distinguish, design)*
- **Application:** apply new concepts to a specific clinical setting *(interpret, apply, demonstrate, choose)*

# **Small Group Learning: Using Questions as Teaching Tools**

**Ask about something that is  
worth knowing**

# Small Group Teaching: When it's over-

- **Did they** learn?
- **What** did they learn?
- **Why** did they learn?
- What did **you** learn?

# Small Group Learning: Challenges

- Group with learners with different knowledge levels
- The “Learner with Frontal Release”
- The “Know it All”
- The “Bored Learner”--“Sleeping Learner”
- The “Shy Learner”



# Suggestions

- **The Frontal Release Learner:**
  - “Can you link what you just said with the point that Timmy raised?”
  - “How do you know that, Jemima? Describe the evidence to support your point. Sam, what evidence would you need to substantiate Jemima’s assertion?”
  - “Can you state/describe that another way?”
  - “Dan, you heard what Jemima shared. What would change if XXX was YYY?”
- **The Bored Learner:**
  - “Mary, can you summarize the discussion so far? Where should we head next?”
  - Sigmund, what if the patient was withdrawing now? Would you suggest anything different?”
- **The Shy Learner:**
  - “Greg, would you keep time, and tell us
  - “We haven’t heard from everyone yet. Alex, do you have something to add? Then Joey next.”
- **The Know it All:**
  - “What evidence would you want Dan to present to support his statement, Angela, if you were going to convince someone else of that point?”
  - “Others may agree with you, Dan, but let’s take another look at the case. Jeffrey, argue the point from a different stance.”
- **The Talker:**
  - “Try waiting until 2-3 others have spoken, before speaking again”
  - “Before you go on, let’s see if someone else has an opinion on that.”
  - “For this group to be successful, everyone has to contribute. What could you do to help make that happen?”
  - “We seem to be going over the same ground all over again. Is that because we’ve run out of new ideas?”

# **Suggestions:**

- Starting:
  - Set ground rules, even if you think they are obvious
  - Distribute roles
  - Clarify time, and establish milestones for the discussion
- Wrapping up:
  - “What are two of the most important ideas that have emerged from this discussion?”
  - “What do you understand better?”
  - “What questions remain for you? How are you going to find the answers?”
  - “What was confusing in the discussion today?”

## Additional Resources:

1- **Teaching Toolkit: Large and Small Group Teaching:** helpful resources for teaching in large and small group, with descriptions of specific techniques to enhance learning through group interaction

[www.ucd.ie/teaching](http://www.ucd.ie/teaching)

2- **Foundation For Critical Thinking:** Paul, R. and Elder, L. (April 1997)

[www.criticalthinking.org](http://www.criticalthinking.org)

3- **The Socratic Method: Fostering Critical Thinking:** Discussion about the Socratic teaching method

[teaching.colostate.edu/tips/tip.cfm?tipid=53](http://teaching.colostate.edu/tips/tip.cfm?tipid=53)

# Small Group Learning:

## Keys to success

- 1) Plan ahead
  - 2) Pay attention to the **process**, not just the content
  - 3) Self-assessment: Learners AND teachers
- \* ) Experiment

Now, the 3x5 card...