

## 10/11/2010





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- Approach to Cough: A Team-Based Learning Exercise (ambulatory)
- Psychiatry: Personality Disorder Team-based learning module (Psychiatry)
- Anxiety, Dissociative, and Somatoform Disorders: Team Based Learning Module (Psychiatry)
- Pelvic Relaxation and Urinary Incontinence/ Endometriosis/ Benign Disease of the Uterus/Menopause Team-Based Learning Module (Ob-Gyn)
- Gynecologic-Oncology Team-Based Learning Session for Third-Year Ob/GYN Medical Student Clerkship



## **TBL-Collaborative - Clerkships**

- Psychiatry (R. Levine, UTMB)
- Psychosis CasePersonality Disorders
- Personancy Disorders
   Children & Adolescents
- Mood Disorders and Psychopharmacology
- Cognitive Disorders
- Substance Abuse
- Emergency Psychiatry
- Rheumatology (Multiple RATs and Applications, T. Drehmer, Wright State)
- Arthritis (K. O'Rourke, Wake Forest)
   Asthma Case (Designed for Physician assistants, G. Schneider MD Anderson)
- Cardiology Module for Physical Diagnosis (Designed for Physician assistants, G. Schneider, MD Anderson)

Behavioral Medicine

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- Individualized Decision Making (M. White, Wright State)

TBL-Collaborative

- Breaking Bad News (P. Haidet, Penn State, Hershey)
- Health Care Systems (D. Mayer, Albany Medical

# Adapting Other Materials for TBL

- MedEdPortal contains ~ 60 exercises for Problem based learning.
- MedEdPortal contains ~ 20 Case Studies.
- Many may have Case Studies that are already part of your course.
  - These materials can provide clinical scenarios, with laboratory data that can be adapted for Application exercises.
  - Case Reports in the Primary Literature
  - This allows you to concentrate on writing challenging questions.

## Preparing Your Own TBL Exercise

- Identify educational objectives. What should the students be able to do upon completion of TBL?
- Backwards Design. Prepare Application first.
  - Keep the 4S's in mind.
  - Be challenging.
  - Questions can follow a single case from presentation through diagnosis to treament.
  - Or, questions can be individual clinical, laboratory , or experimental vignettes.



- 7. What accounts for the significant difference in blood metabolites between Dan and John.?
  - A. Dan's higher level of glucagon results in over-stimulated fat metabolism and a fatty liver.
  - B. Dan's lower level of insulin secretion interferes with his adaptation to starvation.
  - C. John's carbohydrate intake results in improved liver function with lower fat metabolism compared to Dan.
  - D. John's higher level of insulin secretion interferes with his adaptation to starvation.
  - E. John's lower transferrin level interferes with iron metabolism decreasing John's ability for oxidative metabolism.

### **Ethical Judgment and Moral Reasoning**

- An alternative outcome of this scenario is that the Zoning board approves the zoning variance and the men continue their fast beyond 12 weeks. John is in the hospital being treated for pneumonia. John has informed you he intends to martyr himself to this cause and has refused a feeding tube. He begins to slip in and out of consciousness and can no longer speak for himself. His wife and parents beg you to insert a feeding tube. What should the response of health care workers be in this situation?
- Question 11

#### Ethical Judgment and Moral Reasoning Answers by George Knowles, MD

- 11. In the face of voluntary starvation, the physician's obligation includes:
  - A. Restraining the patient's hands after the necessary insertion of an oral or nasogastric feeding tube, because starvation is a fatal disease.
  - B. Insert an oral or nasogastric feeding tube, because the deleterious effects of starvation on the brain render the protester incompetent/to decide.
    C. Performing abdominal surgery to insert a gastric feeding tube. because the protester in the delivium of starvation may try to pull out at oral feeding.
  - blocksel in the demonstration starvation may by to pair out an oral recurr tube. D. Contravening this patient's attempt at suicide by inserting an oral or
  - nasogastric feeding tube. E. Respecting the autonomy of the individuals starving themselves, meanwhile providing comfort measures.
  - F. Interviewing family members of the starving individual and following t wishes as soon as the starving individual lapses into coma.

# Preparing the IRAT/GRAT

- Once the application is completed, the IRAT is not that difficult to write.
  - -Questions should be reasonably straight forward. Be sure to include questions in which knowing the answers will prepare the student for the opplication questions.
  - If desired, questions can be included in the IRAT that cover a broader area of content then might be covered in the Application.

## Determine and Assign Content for Student Preparation

- Content should provide the basis for understanding and solving the application questions.
- Content may be broader than what the application covers.
- Content can be provided many ways:
  - Instructor prepared notes
  - Text Book
  - Primary Literature
     Lecture
  - Posted Power Point
  - Previously Recorded Lecture

# estimate of his basal metabolic rate would be:

7. For a male of average build, a reasonable

- A. 10 kcal/kg weight/day
- B. 16 kcal/kg weight/day
- C. 24 kcal/kg weight/day
- D. 34 kcal/kg weight/day
- E. 100 kcal/kg weight/day

### Resources

- Team-Based Learning: A Transformative Use of Small Groups (2002) L. K. Michaelsen, A. B. Knight, and L. D. Fink, Pareger Publishing, Westport, Ct.
- Team-Based Learning for Health Professions Education Michaelsen, et. al 2008, Stylus Publishing, Sterling VA
- Team Based Learning Collaborative <u>http://teambasedlearning.apsc.ubc.ca/</u>
   MedEdPortal
- http://services.aamc.org/30/mededportal/servlet/segment/me dedportal/login/
- Association of Medical Biochemistry Course Directors (ABCD)
- http://abcd.wildapricot.org/