
Journal Articles as Case Studies

The New England Journal of Medicine on Lactose Intolerance

Kathleen Cornely

Students use as the basis for a case study a journal article investigating whether people who claimed to have a severe lactose intolerance really were unable to digest lactose. This type of case is referred to as an "issues" or "analysis" type of case in which students practice their analytical skills by interpreting data in graphs and tables and critiquing experimental design.

The case study, a teaching tool used for decades in law and business schools, is finding its way into the science classroom. Just a few years ago, in an article in *JCST*, Clyde Freeman Herreid referred to the case study teaching method as "novel" (Herreid 1994a). Since then, science educators have learned what their law and business counterparts had known all along—that the case study method is an excellent way to teach science students the higher-order analytical and problem-solving skills they will need to become capable scientists.

Recently, articles have appeared in which instructors describe how the case study method has been used in their courses to solve "real life" problems in environmental chemistry (Cheng 1995), general chemistry

(Brink et al. 1995), molecular modeling and computational chemistry (Ringan et al. 1994), scientific inquiry courses (Herreid 1994b) and non-majors science courses (Doherty 1994, Arámbula-Greenfield 1996).

In addition to being an excellent vehicle to convey scientific content and to show students "how scientists do science," the case study method is also useful in getting students to grapple with the ethical dilemmas generated by scientific discoveries. Case study exercises have been written in which students explore social issues such as genetic testing (Clark 1997), DNA fingerprinting (Herreid 1996a) and animal rights (Herreid 1996b). The case study teaching method, rather than being thought of as "novel," is now so well established that *JCST* has created "The Case Study" as a new department (Herreid 1997a, 1997b).

As case study teaching becomes more popular, instructors face the dilemma of how to write case study material. Many science instructors simply don't have the time to carry out the considerable amount of research and preparation required to write a new case. For this reason, peer-reviewed journal articles are excellent sources of case study material. Journal articles

contain "the stuff of real science" (Herreid 1994b) and the organization of the journal article lends itself to successful class discussion, even for science instructors with little experience with the discussion format.

THE CASE STUDY METHOD IN AN INTRODUCTORY BIOCHEMISTRY COURSE

The case study described here is one example of several that I use in my introductory biochemistry course at Providence College. Most college biochemistry courses are taught in a format in which the professor lectures and the student memorizes. Although this is the best method for conveying large amounts of material, it puts the student in the position of passive learner, and the student is not likely to retain much of the material after the course is over.

In the past, I attempted to solve this problem by writing case studies that students completed in small groups outside of class (Cornely 1998). This exercise was so successful that I have

Kathleen Cornely is an associate professor of chemistry, department of chemistry, Providence College, Providence, RI 02918; e-mail: kcornely@providence.edu.

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