

## Inter-rater Reliability Calculation

### CoARC Standard 3.11:

The program must develop processes that facilitate the development of inter-rater reliability among those individuals who perform student clinical evaluations.<sup>1</sup>

Minimal evidence of compliance associated with this *Standard*:

#### a. Records of training participation by clinical evaluators

In order to determine inter-rater reliability (IRR) of clinical evaluators by percentage agreement, preceptors should:

- Review the PowerPoint presentations for each module;
- Watch the accompanying videos;
- In the workbook, record errors that were made by the ineffective preceptor in each video;
- Check responses with the *Answer Key* provided in the workbook.
- For percentage agreement,  $A = O/P$ 
  - A = the agreement rate (inter-rater reliability by percent agreement)
  - O = observed agreement (number of errors recorded by preceptor)
  - P = possible agreement (number of errors listed in the answer key)

Categorize percentage agreement as follows<sup>2</sup>:

- Excellent (80 – 100%)
- Good (60 – 79%)
- Moderate (40 – 59%)
- Slight (20 – 39%)

#### b. Results of a review of student evaluations for the purpose of determining inter-rater reliability

For review of your program's student records, sample a percentage of your preceptors' evaluations of a sample of RT students, and apply this model.

## Reporting IRR to CoARC

There is no form for reporting IRR on the self-study. The evidence of compliance includes a narrative and records/results provided at the time of the site visit.

1. Commission on the Accreditation for Respiratory Care. Standards for the Profession of Respiratory Care. 2012. [www.coarc.com/29.html](http://www.coarc.com/29.html)

2. Marques JF, McCall C. The application of inter-rater reliability as a solidification instrument in a phenomenological study. *The Qualitative Report* 2005;10(3);439-62.