**Table B:** *Educational Strategies to Promote Clinical Reasoning and Associated Outcome Measurements*

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| --- | --- | --- |
| Education Strategy | Outcome Measures | Research Studies |
| Case studies and clinical scenarios | Exam, questionnaire, transcript analysis, direct observation, or self-report survey | Brandao de Carvalho & Venicios de Oliveria Lopes, 2011;  Dawson, Comer, Kossick, & Neubrander, 2014; Deschenes, Charlin, Gagnon, Goudreau, 2011;  Forsberg, Georg, Ziegert, & Fors, 2011;  Haffer & Raingruber, 1998; Le Roux & Khanyile, 2012; Russell, McWilliams, Chasen, & Farley, 2011 |
| Web-based case study | Questionnaire | Chan et al., 2016 |
| Case study or clinical scenario with structured model or theory | Self-report survey, transcript analysis, or pre-test/post-test, structured instrument, and verbal analysis | Hoffman et al., 2011; Stec, 2016;  Tesoro, 2012 |
| Clinical coaching | Structured instrument | Jessee & Tanner, 2016 |
| Collaborative learning | Pre-test/post-test OPT worksheet | Harmon & Thompson, 2015 |
| Concept mapping | Questionnaire, transcript analysis | Adema-Hannes, & Parzen, 2005;  Trevisani et al., 2016 |
| Experiential or clinical practicum | Rubric, exam, or transcript analysis | Hicks Russell, Geist, & House Maffett, 2013; Hunter & Arthur, 2016; Kubin, Fogg, Wilson, & Wilson, 2013 |
| Reflective journaling | Exam, structured instruments | Murphy, 2004 |
| Simulation | Exam, rubric, OPT worksheet, structured instrument, and/or questionnaire | Dreifuerst, 2012;  Forneris et al., 2015; Gonzol & Newby, 2013; Jensen, 2013;  Kuiper, Heinrich, Matthias, Graham, & Bell-Kotwall, 2008;  Lee, Lee, Lee, & Bae, 2016;  Levett-Jones et al., 2011 |
| Outcome Present State Test and Clinical Reasoning Web | OPT worksheet, pre-test/posttest, exam, questionnaire, and/or transcript analysis | Bartlett et al., 2008; Bland et al., 2009;  Georg & Zary, 2014;  Kautz et al., 2005; Kautz, Kuiper, Pesut, & Williams, 2006;  Kuiper, Pesut, & Kautz, 2009 |
| Think-Aloud or cognitive walk through approach | Verbal analysis, questionnaire, or direct observation and a pre-test/posttest | Burbach, Barnason, & Thompson, 2015;  Johnsen et al., 2016; Khanyile & Mfidi, 2005; Lapkin & Levett-Jones, 2011 |