

**Session 2.12**  
**Informatics Track**

**Abstract Title:**

Development and Testing of Q-DIO, an Instrument to Measure the Documented Quality of Nursing Diagnoses, Interventions and Outcomes

**Presenters:**

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**Intended Audiences:**

Educators, Clinicians, Informaticists, Administrators, Managers

**Areas of Focus:**

Informatics, Research, Use in Practice, Use in Education, Linking or Integrating Nursing Language

**Research Format:**

For Research Reports

**PURPOSE:** Because research based instruments were not available, the instrument "Quality of documentation of Nursing Diagnoses, Interventions and Outcomes" (Q-DIO) was developed. The purpose of the study was to test the instrument.

**METHODS:** Q-DIO is an instrument to measure the documented quality of patient problems/nursing diagnoses, interventions and outcomes with 29 items on 3-5 point Likert scales. For instrument development, measurement criteria were derived from a theoretical framework and literature reviews, and operationalized into items. The Q-DIO is a criterion referenced instrument, based on four concepts: (a) nursing diagnoses as process, (b) nursing diagnoses as product, (c) nursing interventions, and (d) nursing-sensitive patient outcomes. Instrument testing was performed using a random, stratified sample of 60 nursing documentations representing hospital nursing with and without implementation of standardized nursing language (30 for both strata) of a Swiss General Acute Hospital. Internal consistency and intra- and interrater reliabilities were tested. By item analyses, the grades of difficulty and the discrimination validity of items were evaluated.

**FINDINGS:** Internal consistency on nursing diagnoses as process showed Cronbach's alpha 0.83; nursing diagnoses as product .98; nursing interventions .90; and nursing-sensitive patient outcomes .99. With Kappas of .95, the intrarater and interrater reliabilities were good. Criteria for the grades of difficulty of items and discrimination validity were well met.

**DISCUSSION:** Results suggest Q-DIO is a reliable instrument to measure the documentation quality of nursing diagnoses, interventions and outcomes.

**CONCLUSION:** Further testing of Q-DIO in other settings is recommended.

**Citations:**

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