**Introduction**

Nursing is a scientific discipline that is expanding and building specific knowledge.

NANDA International, Inc., established a taxonomy that contributes to the development of diagnostics based on research and clinical validation studies (Herdman, Kamitsuru & Lopes, 2021).

Accurate nursing diagnoses are essential for the proper use of the nursing process, which is a scientific methodology that supports the clinical practice of nurses. However, most of these studies have a cross-sectional design, this reality can bring several weaknesses regarding the knowledge of the diagnosis profile over time and, therefore, limit the development of appropriate interventions (Miguel et al., 2019).

**Aim**

The aim of this work is to synthesize the importance of longitudinal research in the validation of nursing diagnoses.

**Methods**

Critical analysis of the importance of longitudinal research in the validation of nursing diagnoses.

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### Results

**Nursing diagnosis**

- Taxonomy II, NANDA-I
- Most of the validations of the nursing diagnosis are cross-sectional
- Gap of knowledge in validation of nursing diagnosis
- Necessary to understand the nursing phenomena and human responses over time

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### Longitudinal studies limitations and advantages

<table>
<thead>
<tr>
<th>Limitations</th>
<th>Advantages</th>
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<tbody>
<tr>
<td>● Attrition of the sample</td>
<td>● Establish cause-effect relations</td>
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<tr>
<td>● Complexity of the logistic and data analysis</td>
<td>● Identify mediators, moderator and confusion variables</td>
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<tr>
<td>● Expensive</td>
<td>● Understand the effect of evolution of time on variables</td>
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<tr>
<td>● Take a long time</td>
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### Importance of longitudinal studies in validation of nursing diagnoses

- Longitudinal studies in validation of nursing diagnoses
- Understand the profile of nursing diagnoses
- Plan interventions in advance
- Best outcomes in patients’ health

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### Longitudinal studies: a step forward diagnosis understanding and development

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### Conclusions

Although research with a longitudinal design presents some drawbacks and challenges regarding its execution, it is vital to understand the human responses over time and have more accurate nursing diagnosis.

### Implications for nursing practice

Longitudinal design has the benefit to appear innovative in clinical research on nursing diagnoses and to facilitate the planning, fundamental for the efficiency of nursing interventions concerning the patient health outcomes.

### References
