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## A Proposed Holistic Model of Assessment for Children with Cleft Palate within the ICF-CY Framework

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## A Proposed Holistic Model of Assessment for Children with Cleft Palate within the ICF-CY Framework

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## ABSTRACT

The purpose of this project is to describe a proposed model for the assessment of children with cleft palate within the framework of the International Classification of Function, Disability and Health-Children and Youth Version (ICF-CY) (WHO, 2007). Suggestions for clinical application and cleft palate curricula are made, and future research needs are identified.

## INTRODUCTION

The assessment of children with cleft lip and palate (CLP) has traditionally focused on structure and function. However, three recent developments necessitate Speech-Language Pathologists (SLPs) to reconsider clinical assessment protocols for children with CLP.

- The International Classification of Functioning, Disability, and Health for Children and Youth (ICF-CY) (WHO, 2007) provides an important framework for the holistic consideration of children with cleft lip and palate. The ICF-CY's interrelated components, facilitates understanding of the many factors that contribute to the impact of a cleft palate on the activity and participation of these children (Figure 1).
- Quality of life (QoL) research on individuals living with clefts emphasizes the importance of considering activity, participation, environment and individual factors (Hall, Gibson, James & Rodd, 2013). The ICF-CY (WHO, 2007) framework provides insight into the complex interaction between the health condition of a child with CLP and his/her speech-language disorder, personal and environmental factors, which reflect the conditions under which the child grows up (Neumann, 2013). This necessitates a broader and more holistic approach to assessment.
- Several clinical tools for the assessment of children have been developed within the ICF-CY framework. According to Neumann and Romonath (2012), we need to move beyond assessing only the child with a cleft palate, and adopt a more holistic approach by including the family, siblings, friends, etc. in order to address activity, participation, environmental and personal issue in both assessment and intervention.

The aim of the study is to propose an assessment model for children within the ICF-CY (WHO, 2007) framework based on a comprehensive narrative review of the application of the ICF-CY to children with cleft palate.

# A Proposed Holistic Model of Assessment for Children with Cleft Lip/Palate

# within the ICF-CY Framework

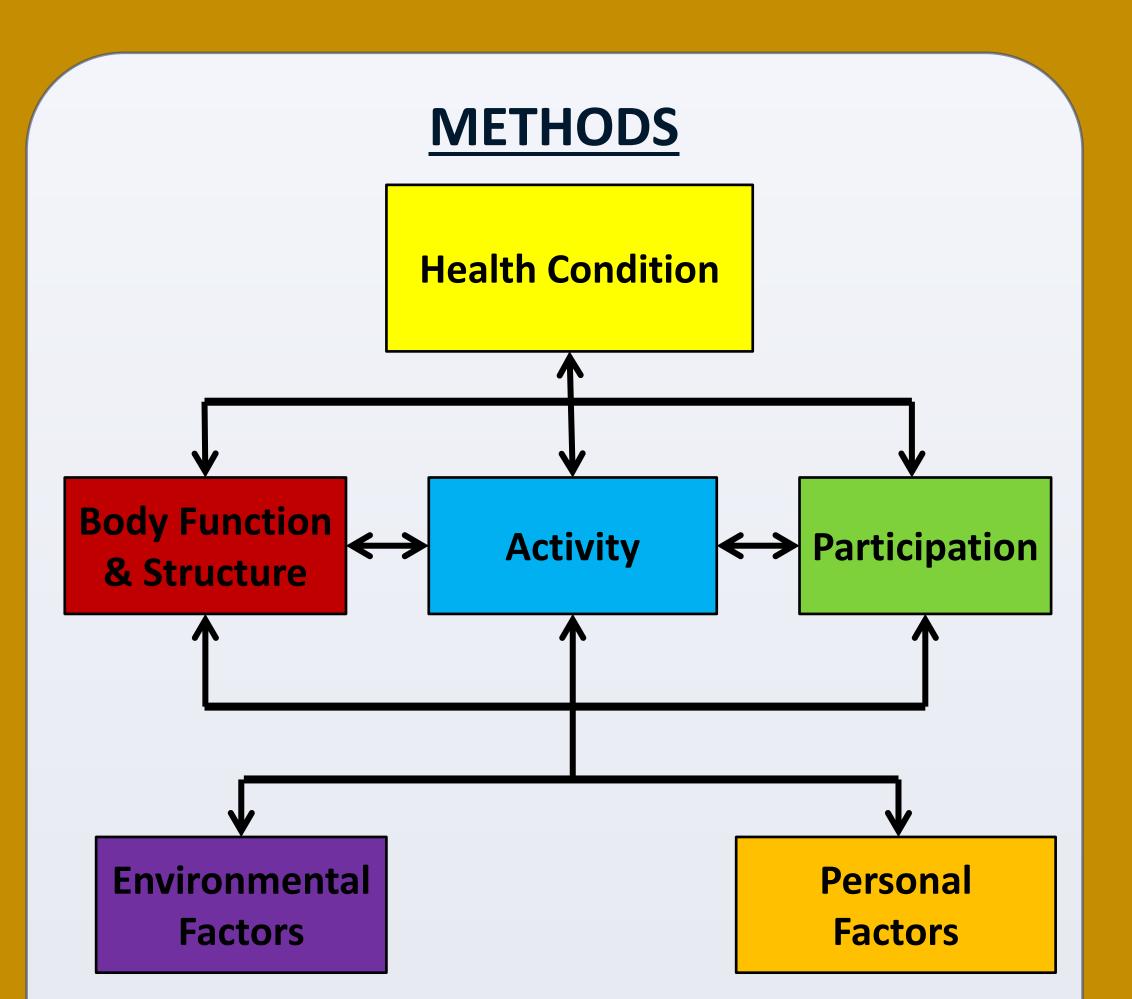


Figure 1: ICF-CY (WHO 2007)

- A systematic literature search was conducted by following a specific search strategy and a systematized selection of publications for review to limit researcher bias (Schiavetti, Metz, & Orlikoff, 2011).
- Computer searches of electronic databases (e.g. PubMed, CINHAL) as well as hand searches were conducted to identify publications and sources that addressed the key topics.
- Relevant codes were selected and charted based upon components of the ICF-CY (WHO 2007).
- Based on the charted codes, assessment methods/tools were matched to the ICF-CY (WHO,2007) components for the holistic evaluation of a child with CLP.

## RESULTS

<b>Body Function</b>	
Relevant Codes	<b><u>Relevant Assessments</u></b>
b1260, b1264, b1265 b1266, b1560, b1562 b1563, b2300, b2301 b2302, b2303, b2702 b3101, b4402, b5100 b5101, b5102, b5103 b5104, b5105, b7300 b7350, b7401, b7600 b7601, b7602	<ul> <li>Perceptual assessment of speech and resonance         <ul> <li>Intelligibility</li> <li>Articulation</li> <li>Resonance</li> <li>Voice</li> <li>Acceptability</li> </ul> </li> <li>Formal tests         <ul> <li>GFTA-2(Goldman</li> <li>Fristoe, 2011)</li> <li>Test of Phonological Awareness</li> <li>Feeding Assessment</li> <li>Language assessment</li> <li>Hearing assessment</li> </ul> </li> </ul>

