

# TRANSFORMATION OF IN-PERSON DIAGNOSTIC SIMULATION INTO A VIRTUAL IMMERSIVE LEARNING EXPERIENCE

**Natalie Neubauer EdD., CCC-SLP,**

Director of Clinical Education

Assistant Professor

Seton Hall University, Nutley, New Jersey

**Jennifer McCarthy MAS, NRP, CHSE-A**

Director of Clinical Simulation

Associate Clinical Professor

Seton Hall University Nutley, New Jersey

**Simulation:** An educational technique that replaces or amplifies real experiences with guided experiences that evoke or replicate substantial aspects of the real world in a fully interactive manner (Gaba, 2004).

**Standardized Patient:** An individual trained to portray a patient with a specific condition in a realistic, standardized, and repeatable way and where portrayal/presentation varies based only on learner performance; this strict standardization of performance in a simulated session is what can distinguish standardized patients from simulated patients.

## DEFINITIONS

- ▶ **School of Health and Medical Sciences: Clinical Simulation**  
Department oversees simulation activities for all graduate Health Science Programs – Athletic Training, Masters of Health Administration, Occupational Therapy, Physical Therapy, Physician Assistant, Speech Language Pathology and Interprofessional Health Sciences PhD.
- ▶ **Fall 2020:** 1 405 learners through 28 activities offered both virtual and face to face.



SCHOOL OF HEALTH  
AND MEDICAL SCIENCES

SETON HALL UNIVERSITY

Case History  
Analysis

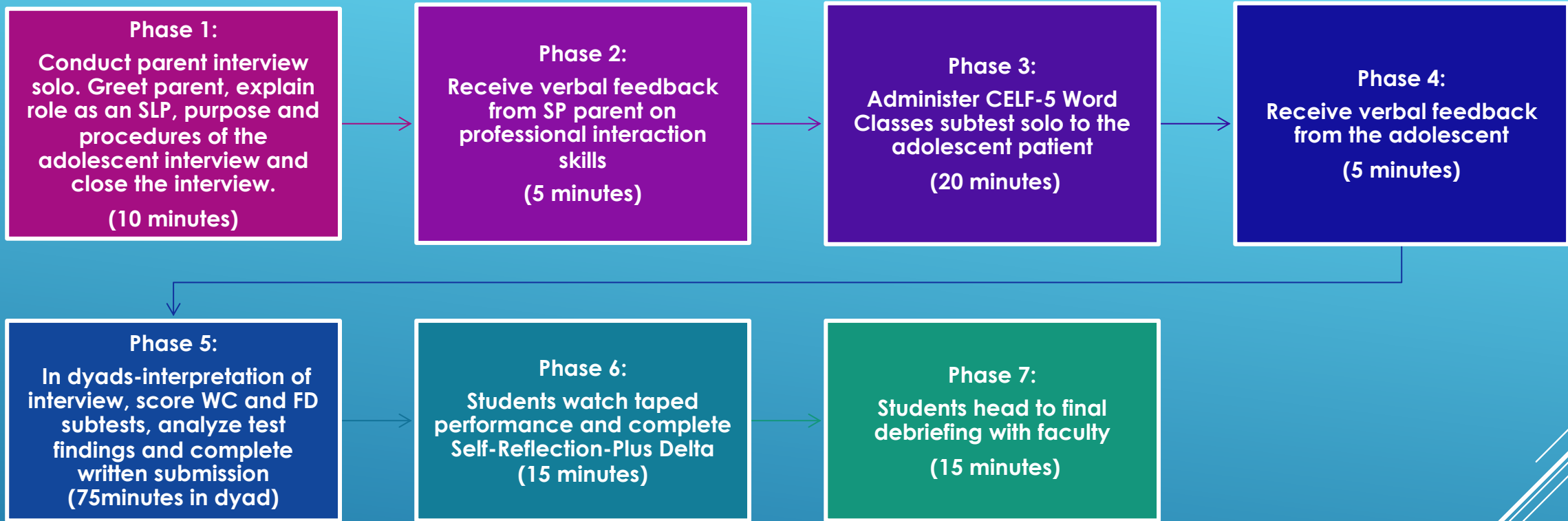
Clinical  
Interviewing

Administration of  
Standardized  
Assessment

Test Interpretation  
and Scoring

Creation of a  
Written Clinical  
Evaluation  
Summary

STANDARDIZED PATIENT SIMULATION  
TARGETING CLINICAL DIAGNOSTIC  
ASSESSMENT IN PEDIATRICS



# PHASES OF THE VIRTUAL SIMULATION

Fall 2019

- ▶ One activity – F2F simulation, interviewing both a parent and adolescent.

Spring 2020

- ▶ Second activity – F2F simulation administering the CELF 5 test word classes and following directions

COVID – Spring 2020

- ▶ Modify F2F to VSIM - administering the CELF 5 test word classes

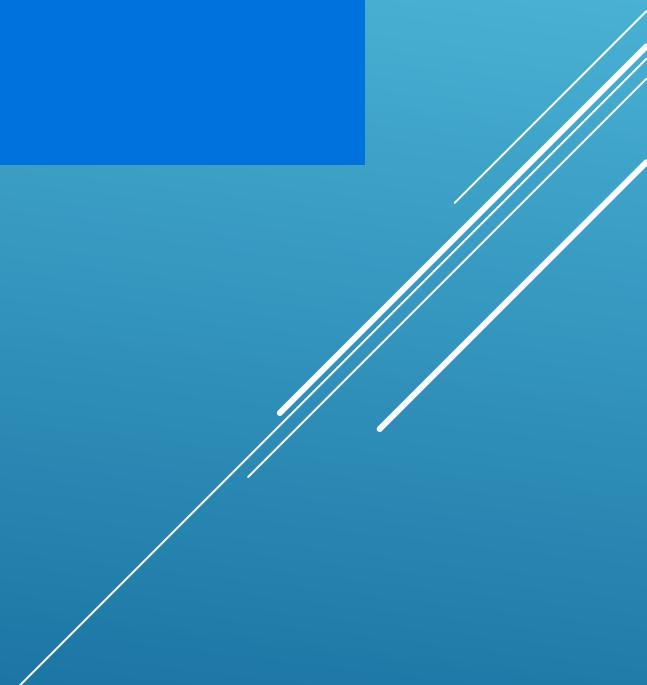
Fall 2020

- ▶ VSIM – Parent interview and CELF 5 test word classes

# COVID IMPACTS



VIDEO CLIPS  
INTERVIEW AND CELF 5



Pre-Analysis of Case History in Dyads

Delivery of Clinical Interview using six pre-scripted questions and data collection on the findings

Written Identification of rationale for asking those six inquiries specifically

Diagnostic Checklist Completion

Test Administration- Word Classes Subtest of CELF-5

Scoring for Word Classes and Following Directions Subtest of CELF-5

Completion of Evaluation Summary Including Accurate Interpretation of Test and Interview Data

Completion of a Plus-Delta

Class Debrief to Review Trends

OUTCOME MEASURES TO ASSESS CLINICAL SKILL DEVELOPMENT (WORK PRODUCTS)



# Clinical Interviewing & Case History Analysis Skills

**INTRODUCES SELF AND SCOPE APPROPRIATELY**

**VERIFIES STUDENT/CAREGIVER IDENTIFICATION**

**DESCRIBES A SPEECH OR LANGUAGE ISSUE, EXPLAINS INTERVIEW RATIONALE AND WHAT THE FINDINGS WILL BE USED FOR**

**ENGAGES IN THE INTERVIEW USING EVIDENCE-BASED INTERVIEW STRATEGIES LEARNED**

**EXITS WITH APPROPRIATE SALUTATION**

**SELECTING SALIENT DETAILS FROM CASE HISTORY PERTINENT TO COMMUNICATION**

**PROVIDES APPROPRIATE RATIONALE FOR INTERVIEW QUESTIONS BEING ASKED**

# Clinical Assessment & Interpretation Skills

**INTRODUCES SELF AND SCOPE APPROPRIATELY**

**SUMMARIZES THE PRIMARY RECEPTIVE LANGUAGE/PROCESSING/ATTENTION ISSUES FROM THE INTERVIEW AND CASE HISTORY**

**STUDENTS EXPLAIN RATIONALE FOR ADMINISTERING SUBTEST OF THE CELF-5**

**STUDENTS ADMINISTER THE CELF 5 SUBTEST ACCORDING TO THE STATED GUIDELINES**

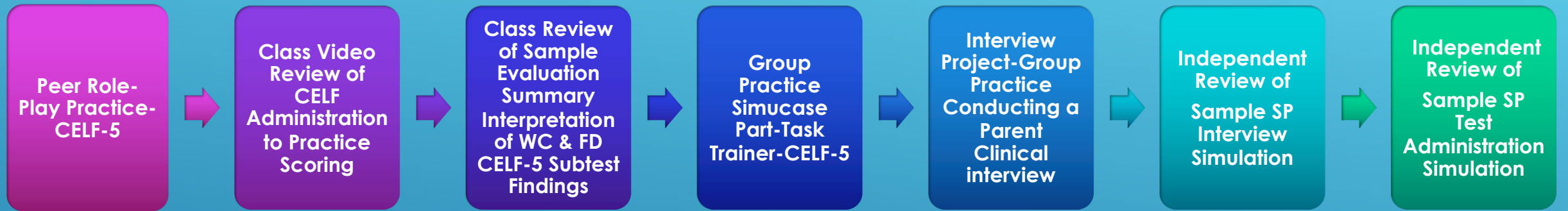
**STUDENTS SCORE THE CELF-5 SUBTESTS ACCORDING TO PROTOCOL**

**STUDENTS SUMMARIZE THE TEST FINDINGS ACCURATELY IN AN EVALUATION SUMMARY**

## EVALUATION RUBRICS

- ▶ Standardized Patient Feedback Verbal Feedback – individualized verbal feedback
- ▶ Standardized Patient Feedback Form – standard feedback utilized through all simulation activities
- ▶ Plus/Delta – Self reflection assessment

SIMULATION FEEDBACK/ASSESSMENTS



# VIRTUAL SIMULATION PREPARATION-STUDENTS

THANK YOU!  
QUESTIONS?

