



Case by Case. Improving Clinical Skills. Inspiring Confidence.

User Guide 3.0

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SimuCase™

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The screenshot shows the SimuCase interface. At the top, there is a blue header with the SimuCase logo and a timer at 00:01:43. Below the header is a navigation bar with icons for Case History, Collaborators, Hypothesis, Assessments, Diagnosis, and Recommendations. A 'Quick' label is partially visible on the left. The main content area is titled 'Referral Information' and contains a profile picture of a man, a 'Referred By: Teacher' field, and a 'Referred Information:' field with text about Kara Lynn. A 'Clipboard' window is open in the foreground, listing the same navigation items. On the right, there is a video feed of a virtual client, a girl with blonde hair and a red bow. In the top right corner, there is a 'Submit Case' button and a 'Save & Exit' button. Numbered callouts (1-4) are placed over the interface to highlight key features.

SimuCase Quick Guide

Assess your virtual client using these tools:

1. Work through the **assessment process** in the core areas, in any order. But we recommend starting here:
 - a. **Case History** – interact with the virtual client or caregiver by selecting appropriate questions
 - b. **Collaborators** – consult other professionals and family members, select questions and review reports
 - c. **Clinical Hypothesis** – record your hypothesis and action plan
 - d. **Assessments** – administer age-appropriate standardized and non-standardized tests and procedures
 - e. **Diagnosis** – select your diagnoses
 - f. **Recommendations** – select your recommendation

You are scored based on the appropriateness of your decisions.

2. The **Clipboard** saves all of your decisions for review.
3. **Save/Exit** your case to resume at a later time.
4. **Submit** your case upon completion and print your final report.

What Is SimuCase™?

SimuCase is a web-based simulated case study application designed to support best practice in speech-language pathology. It provides numerous cases in multiple settings. This learning tool encourages the user to measure and improve clinical decision-making in the area of assessment and intervention. Users might be university students, practicing speech-language pathologists, speech-language pathology assistants, or those who want more experience in with a specific type of case. The user practices screening, assessment, and intervention methods while interacting with virtual clients, family members, and professionals. By asking the right questions, collaborating with appropriate professionals, and using proper assessment and intervention tools, the user can make a diagnosis and recommendation. Virtual simulations allow practice in a safe, nonthreatening environment and are intended to build knowledge, skill, and professional judgment—qualities that contribute to successful, competent clinicians.

Implementing SimuCase

Simulations are powerful tools for learning. When simulations are blended with faculty instruction, research has shown significantly higher achievement results compared to students provided with traditional instruction (McGaghie, Siddall, Mazmanian, & Myers, 2009; Rieber, Boyce, & Assad, 1990). Research has shown that simulations are most effective when a pre-brief, feedback and debrief are completed (Fanning & Gaba, 2007). A pre-brief is an introduction to the simulation. A pre-brief establishes the standards for which learners will be evaluated by reviewing learning outcomes prior to beginning the simulation. Within a pre-brief the learners should be introduced to the simulation program and features.

A pre-brief for SimuCase might include the following:

- Provide learners with detailed learning objectives for the SimuCase assignment.
- Review the SimuCase platform and provide an overview of the case functionality.
- Provide learners with expectations for a final debrief.

As users work on a case, they will need supportive feedback and strong guidance from their instructor to succeed. Kirschner, Sweller and Clark (2006) concluded that educational

approaches that provide extensive guidance to students are more effective and efficient than approaches that are minimally guided.

Following the completion of the simulation, a debrief should occur. A debrief is the process where faculty and learners reexamine the simulation experience following the completion of the simulation. A debrief promotes the development of clinical reasoning skills through reflective learning processes. There are multiple models for debriefing.

A debrief for SimuCase might include the following:

- Review the simulation and identify the impact of the experience. This can be done in a writing journal, think aloud, group discussion, or 1:1 conference.
- Sort out and clarify thinking and any areas of misconception
- Identify the ways in which emotion was involved
- Reinforce specific teaching points
- Allow time for reflection and generalization of the experience

Facilitative instruction with a guided pre-brief and debrief, combined with the experiential learning opportunities that SimuCase provides, creates a successful constructivist approach to teaching and learning.

SimuCase Scoring

Scoring is based on the strength of the decisions students make within each section of a case. In general, students earn points for good, **reflective** decisions and lost points for poor decisions (**rejected** decisions). There are also decisions that are judged as **acceptable**, which results in no points awarded or subtracted. The points earned in each section are added together to determine the overall competency level of the student. The following scale is utilized to assign a competency measure:

- 90% or higher overall score = Mastering
- 70-89% overall score = Developing
- Lower than 70% overall score = Emerging

SimuCase Case Categories

There are four categories of SimuCase experiences: screening, assessment, intervention, and part task training cases.

Screening cases are designed to improve the skill sets necessary for completion of a screen. These cases contain screenings for the user to practice the elements that contribute to a comprehensive screening protocol.

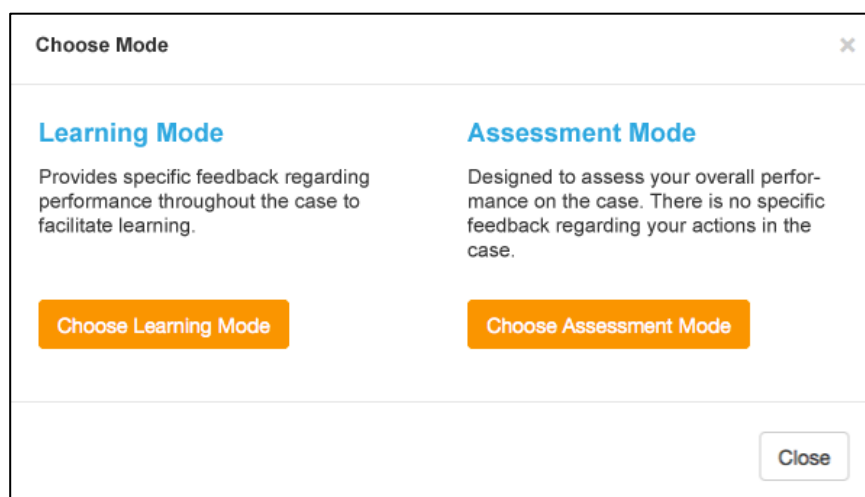
Assessment cases encourage the student to exercise the clinical decision-making skills required for a full client assessment. The student is expected to interact with family and other professionals to gather information pertinent to the case, as well as administer assessments to make a diagnosis and provide recommendations.

Intervention cases are designed to provide learners the opportunity to improve interventions skills; each case includes intervention activities that allow for practice of treatment methods.

Part Task Training cases are designed to improve the skill sets necessary for completion of a specific task. These cases contain activities for the user to practice.

Learning Mode and Assessment Mode

There are two simulation modes that a user must select from when beginning a case: learning mode and assessment mode.



Learning mode is designed to provide the user with specific, real-time feedback relative to clinical decision-making throughout the simulation. The intent of learning mode is to provide the student with a formative learning experience. Performance meters are found in the main menu of the case, and these meters fill and empty based on the actions of the user. The goal is to fill the meter completely for each section. As the meter fills, the color will transition from yellow to green, indicating mastery within the section. Within learning mode, there are positive feedback messages when a user makes a series of correct decisions and there are redirect messages when a user makes incorrect selections.


Assessment mode is designed to assess the overall performance of a user in a summative manner. The only feedback provided in assessment mode is a redirect prompting the user to restart when a series of critical errors has occurred. No additional, real-time feedback is provided to the learner within the case while in assessment mode. The performance meters remain grayed out and no additional feedback messages are presented to the user within the case. The user is provided a final score after submitting the case.

SimuCase 00:34:48 Show Clipboard Getting Started Submit Case Save & Exit

Case History Collaborators Hypothesis Assessments Diagnosis Recommendations

CASE HISTORY Help

Instructions	Client Name: Kara Lynn
Identifying / Family Information	Medical
Areas of Concern	Does Kara Lynn have any medical problems?
Prenatal / Birth	Does Kara Lynn take any regular medications?
Developmental	Does Kara Lynn have any allergies?
Hearing / Vision	Has Kara Lynn had any previous illnesses, injuries, or surgeries?
Medical	Has Kara Lynn ever been seen by a specialist such as a psychologist, psychiatrist, ENT Physician, audiologist, physical therapist, occupational therapist or neurologist?
Feeding / Swallowing	Does Kara Lynn smoke?
Speech, Fluency, and Voice	Does Kara Lynn get enough iron in her diet?
Language / Literacy	
Social / Behavioral	
Education / Vocation	



Does Kara Lynn have any medical problems?
She is very healthy.

Does Kara Lynn take any regular medications?
No.

Feedback messages also occur as the user progresses through the case. When a series of good decisions are made, a positive feedback message appears at the base of the case study window.

The screenshot shows the SimuCase interface with the 'CASE HISTORY' section active. The client name is Kara Lynn. The 'Language / Literacy' section is selected, showing several assessment questions. A green feedback message at the bottom reads: "Thank you for paying attention to the details. Way to go!"

When poor decisions are made, a redirect feedback message appears in the same manner. The number of redirect feedback messages received by the user within each section is saved in both the clipboard and the final report. When poor decisions continue to be made, the redirect message changes to reflect critical errors and the user is prompted to restart the simulation.

The screenshot shows the SimuCase interface with the 'COLLABORATORS' section active. The 'Special Educator' collaborator is selected. The 'Instructions' section is visible, providing guidance on how to ask questions. A red feedback message at the bottom reads: "Select appropriate collaborators for this case. Remember to ask relevant questions and avoid redundant questions."

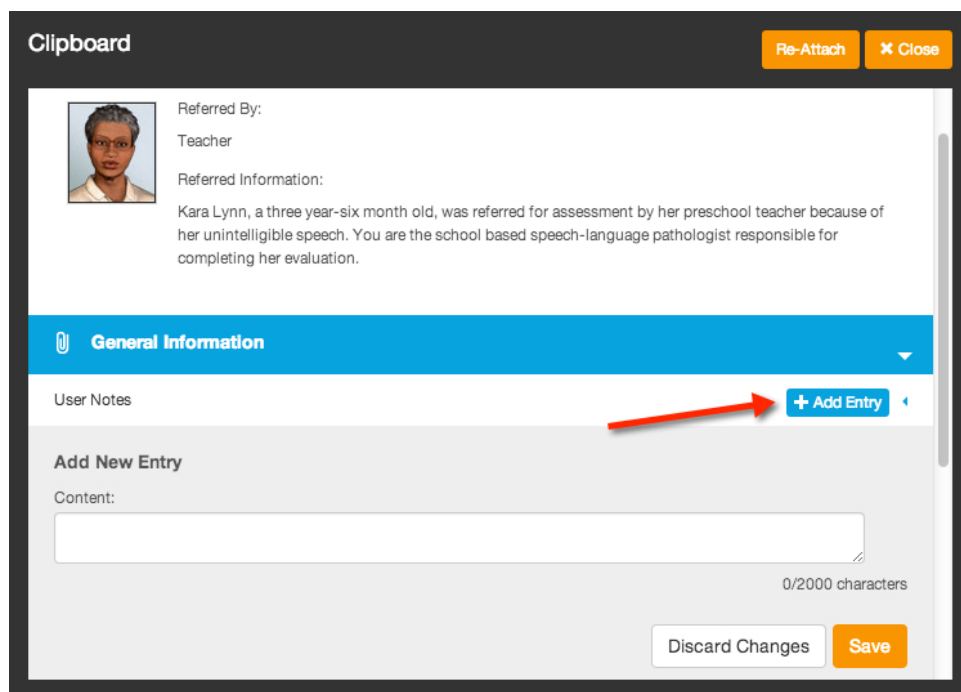
Assessment mode is designed to assess the overall performance of a user in a summative manner. The only feedback provided in assessment mode is a redirect prompting the user to restart when a series of critical errors has occurred. No additional, real-time feedback is provided to the learner while in assessment mode. The performance meters remain grayed out and no additional feedback messages are presented to the user.

Working, Saving and Submitting a Case

For each of the three case types, there are key functions that are similar as students work through a case: the clipboard, saving/exiting a case, and submitting a case.

Using the Clipboard

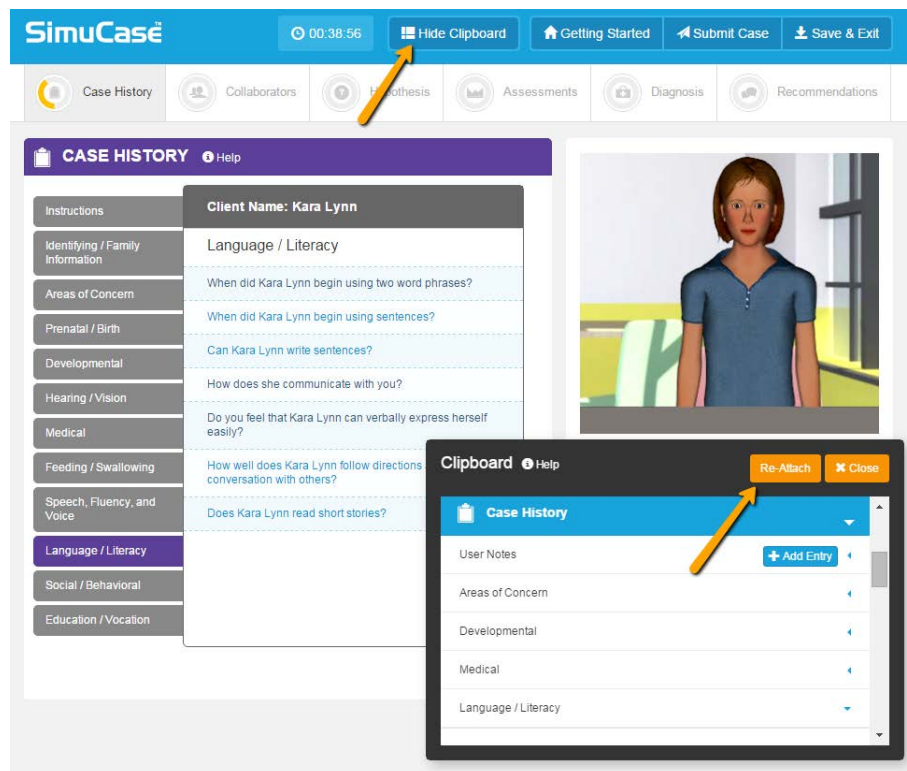
The **Clipboard** is a dynamic, interactive tool that allows recording of data throughout a simulation. This is a feature designed to help organize user data; use of the clipboard is not scored. Decisions made throughout the case are added automatically from each of the tools. Additional notes can be entered by clicking the **Add Entry** button. Users can also delete notes in the Clipboard.



The screenshot displays the 'Clipboard' interface. At the top, there are 'Re-Attach' and 'Close' buttons. The main content area shows a patient profile with a photo and text: 'Referred By: Teacher' and 'Referred Information: Kara Lynn, a three year-six month old, was referred for assessment by her preschool teacher because of her unintelligible speech. You are the school based speech-language pathologist responsible for completing her evaluation.' Below this is a blue header for 'General Information'. Underneath, there is a 'User Notes' section with a '+ Add Entry' button, which is highlighted by a red arrow. Below the 'Add Entry' button is a form titled 'Add New Entry' with a 'Content:' label and a text input field. At the bottom right of the form, it says '0/2000 characters'. At the very bottom, there are 'Discard Changes' and 'Save' buttons.

The Clipboard offers the option for users to enter General Information. This is an optional feature that allows users to record behavioral objectives such as conditions, student behavior and performance criteria. The user can add, edit, or delete text in the general information section at any time prior to submitting the case. All notes in the Clipboard are included in the final report so decisions made during the case can be reviewed once the case is submitted. As a reminder, use of the Clipboard is not scored.

The clipboard can be hidden using the **Show/Hide Clipboard** button in the main navigation, as well as attached and re-attached to the main header of the case study with the **Attach/Re-Attach** button. The clipboard is easily moved by clicking and dragging, and can also be re-sized by clicking and dragging the edges of the floating window.



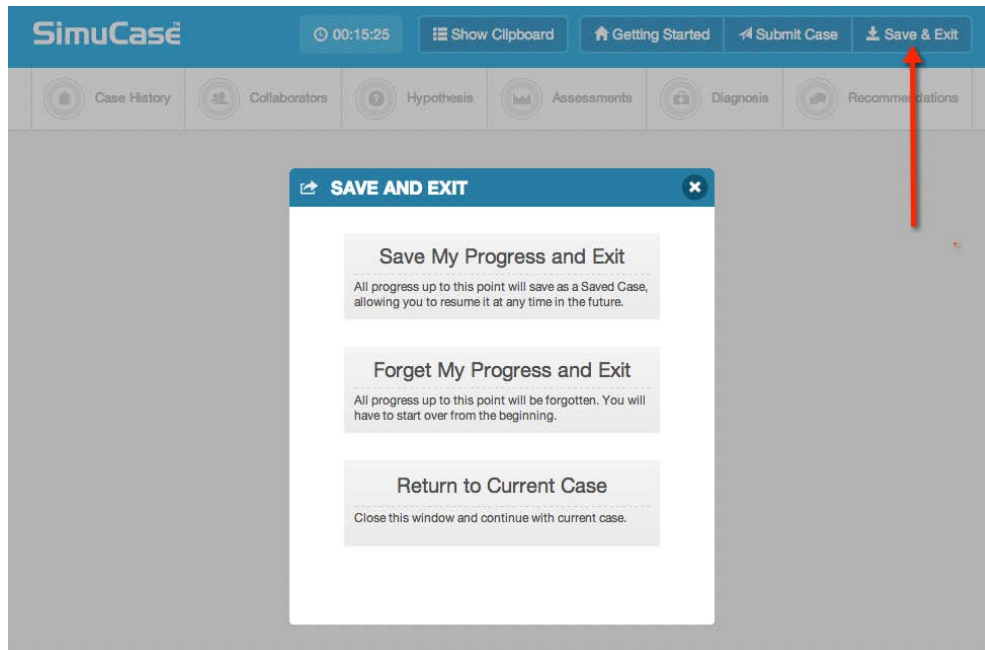
Save/Exit

SimuCase has an auto-save function so the user does not need to worry about saving data while working within a case. To exit the program, select **Save/Exit**, and then choose from the following options:

Save My Progress and Exit—this feature allows the user to save all work with the case and to exit the program. Saved cases are listed in a user’s pending course page.

Forget My Progress and Exit—this feature allows the user to exit and restart a case.

Return to Current Case—this feature allows the user to go back into the current case.



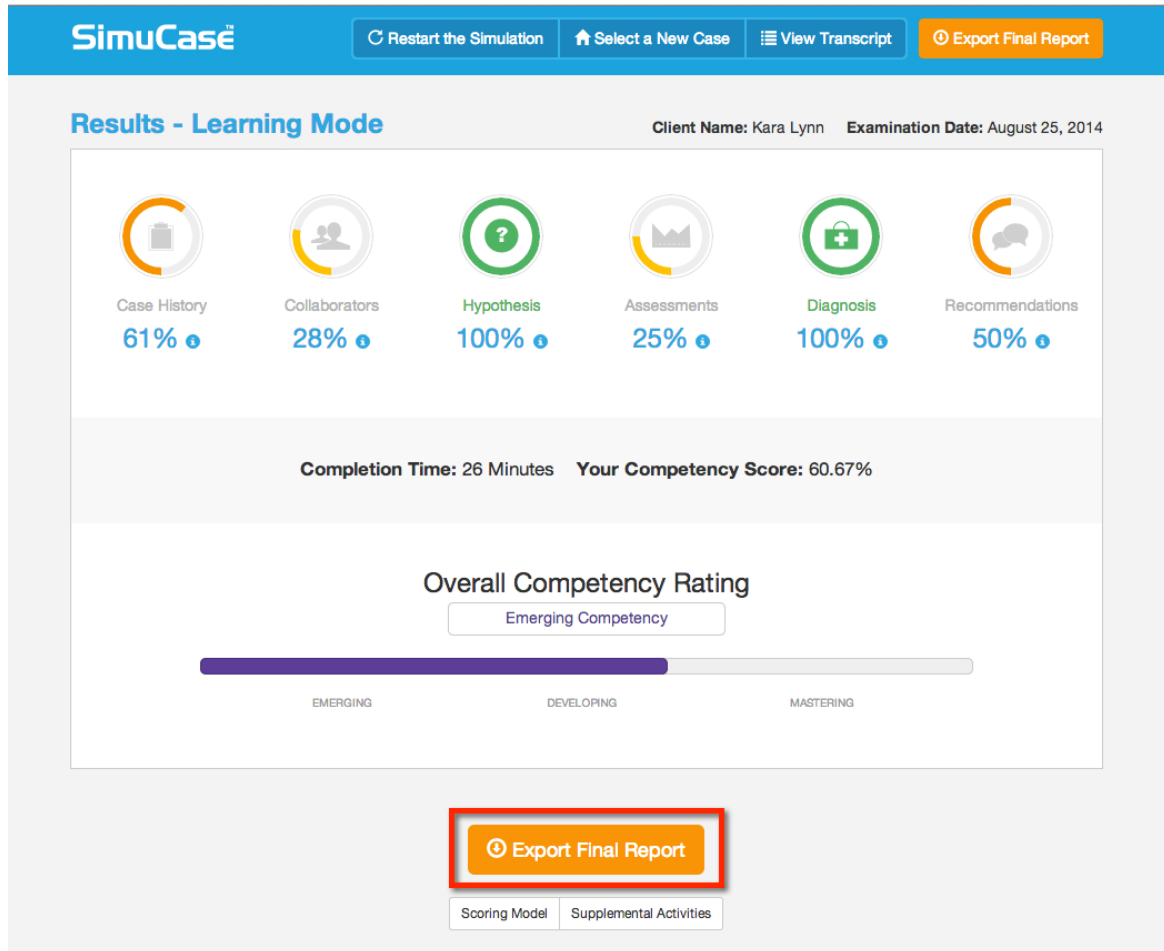
Submitting the Case

A simulation is not complete until the user chooses **Submit Case**—the final step in the simulation process. When clicking Submit Case, results regarding the user’s competencies in each of the areas of decision-making associated with the case type are provided.

In addition, the amount of time spent in the case is indicated, although is not a part of competency scoring. The time indicated is an estimate and includes the time it might have taken to complete a screening or assessment activity. Although time spent on a case is not considered in the competency scoring, the issue of time spent on a case is a good point of discussion for any of the cases included in SimuCase.

The user can view a printed report of his or her competencies and all clinical decisions he or she made throughout a case by **Exporting Final Report**. This final report is a PDF summarizing all

actions taken within the simulation. The user's competency scores are also listed. Completed cases are saved on a user's Completed Case Transcript.

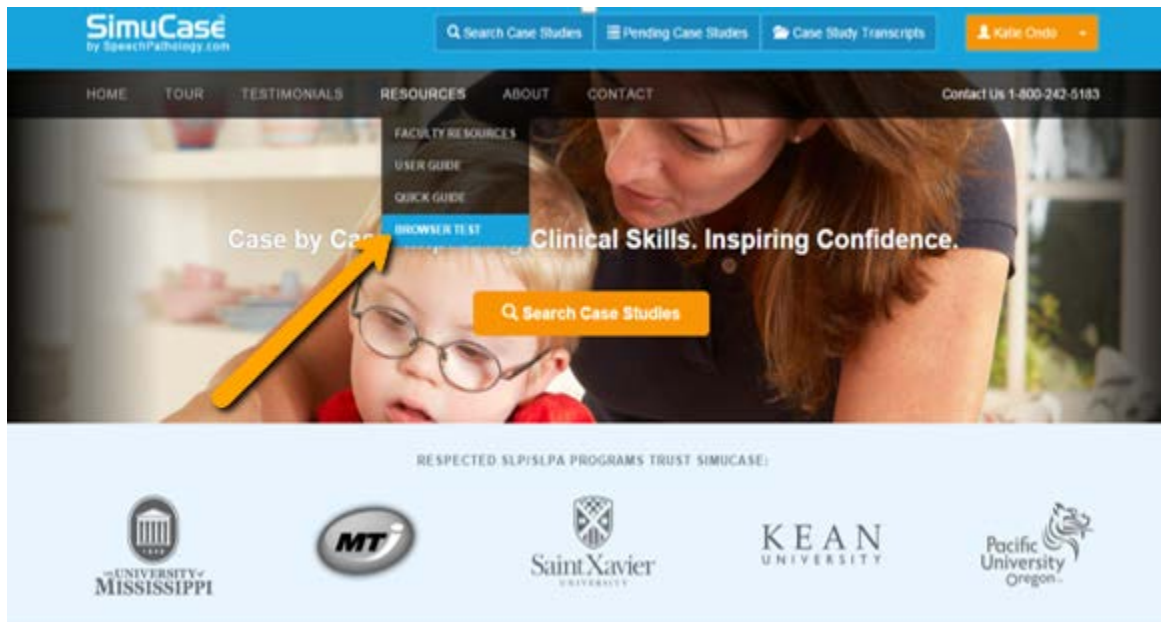


SimuCase™ Technical Requirements

SimuCase is cloud-based application with minimal technical requirements: a web browser and a high-speed Internet connection. For optimal performance we recommend the following:

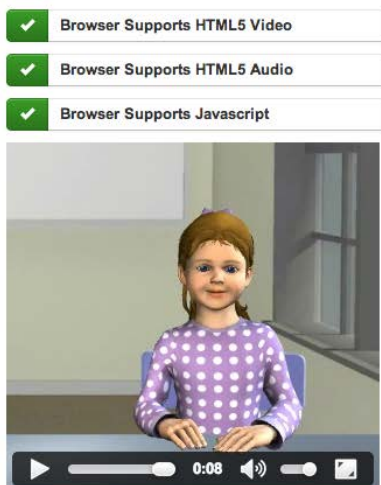
Supported Internet Browsers: Safari version 7.0 and above, Firefox version 38.0 and above, Internet Explorer 10.0 and above, Chrome version 42 and above

To insure compatibility, users can select the **Browser Test** found on the SimuCase drop down menu to test the required browser settings.



To verify the ability of your system to playback media (i.e. audio and video files) within the SimuCase application, the Browser Test page also includes automatic playback of a video file. You should see and hear the virtual patient introduction.

SimuCase Browser Test



Your browser successfully meets the requirements to view SimuCase™ Virtual Case Studies.

You should also see and hear a video playing in the media window. If not, please call 800-242-5183 for assistance.

Browse our virtual case studies to get started

[SimuCase™ Virtual Case Studies](#)

Additional recommendations for optimal performance of SimuCase include:

- JavaScript must be enabled

- Adobe Acrobat Reader (free from get.adobe.com/reader/)
- Headphones are optional but highly recommended

We are here to help you! If additional technical support is needed, please contact SpeechPathology.com customer service at 1-800-242-5183 between the hours of 7 AM and 7 PM ET. You may also contact our support team via email at help@simucase.com

SimuCase Frequently Asked Questions

Where Does the Case Content Come From?

SimuCase content has been provided by families from a variety of hospitals, schools, and clinics across the United States, including Cincinnati Children's Hospital Medical Center (CCHMC), the Cleveland Hearing and Speech Center, and numerous university clinics. Each case was created from an actual case submitted by a practicing speech-language pathologist.

Once a case is created, at least two reviewers with expertise in the disorder area review the case content to insure evidence-based practices. Each reviewer evaluates scoring information and provides approval prior to release of a case.

How Long Should It Take a User to Complete a Case?

Understanding that SimuCase is a simulated case study experience for the speech-language assessment process, it should take users several hours to successfully complete a case. Since this experience is similar to the diagnostic process, users should expect to spend approximately 1-3 hours working through the diagnostic process.

Can a case be completed more than once?

YES! One of the greatest advantages of simulation is the opportunity for repeated practice. Learners should be encouraged to start over when dissatisfied with decisions or scoring.

Can students work on more than one case at a time?

YES! Each case is stored and scored independently within the SpeechPathology.com user account.

How does scoring work?

Scoring is based on the strength of the decisions students make within each section of a case. In general, students earn points for good, **reflective** decisions and lost points for poor decisions (**rejected** decisions). There are also decisions that are judged as **acceptable**, which results in no points awarded or subtracted. The points earned in each section are added together to determine the overall competency level of the student. The following scale is utilized to assign a competency measure:

- 90% or higher overall score = Mastering
- 70-89% overall score = Developing
- Lower than 70% overall score = Emerging

Are there any supplemental activities available?

YES! SimuCase assessment cases also include Supplemental Activities for use. These activities give you the option to:

- Create a Comprehensive Diagnostic Report—to develop your writing and reporting skills
- Create an Individualized Educational Program (IEP)—based on forms provided by the Ohio Department of Education
- Create an Evaluation Team Report (ETR)—based on forms provided by the Ohio Department of Education
- Create a Lesson Plan
- Create an Intervention Plan based on the assessment results, areas of concerns, and recommendations of the case

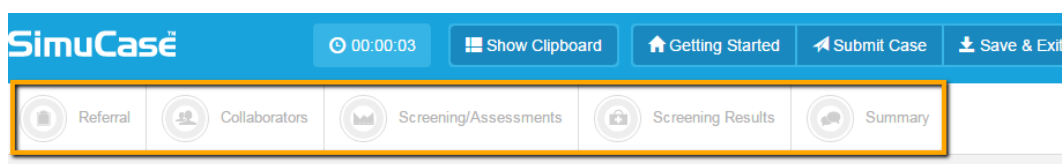
Click **Supplemental Activities** on the Results page to access these activities. All forms are provided in PDF format and can be downloaded to a local drive for printing and use.

Screening Cases

Screening cases are designed to improve the skill sets necessary for completion of a screen. These cases contain screenings for the user to practice the elements that contribute to a comprehensive screening protocol.

The SimuCase Screening Tools

The majority of SimuCase tools are presented in the toolbar at the top of the opening screen. Referral, Collaborators, Screening/Assessments, Screening Results, Summary, Save/Exit, and Submit Case are easy to access via the toolbar. The dynamic clipboard, an additional tool, helps users organize the information they gather about the case. When first opening a case, the Clipboard must be opened and can be resized, as well as closed as needed. The following sections walk you through the purpose and function of each of the menus in the toolbar.



Getting Started

Hello! We are excited that you are here to meet your client. Your task is to **gather information** pertinent to the client and **complete a speech, language, and hearing screen**.

The resizable, interactive **Clipboard** saves all of your decisions for subsequent review.

To ensure your data is saved correctly, please do not play the game in multiple browser windows.

Before you see the client today, here are some tips to help you navigate SimuCase and assess your client.

Referral

The **Referral** tool allows you to interact with the Supervising Speech-Language Pathologist and review referral information.

Collaborators

You can consult with other professionals and family members using the **Collaborators** tool.

Summary

The **Summary** tool allows you to select a summary statement of your findings.

Screening/Assessments

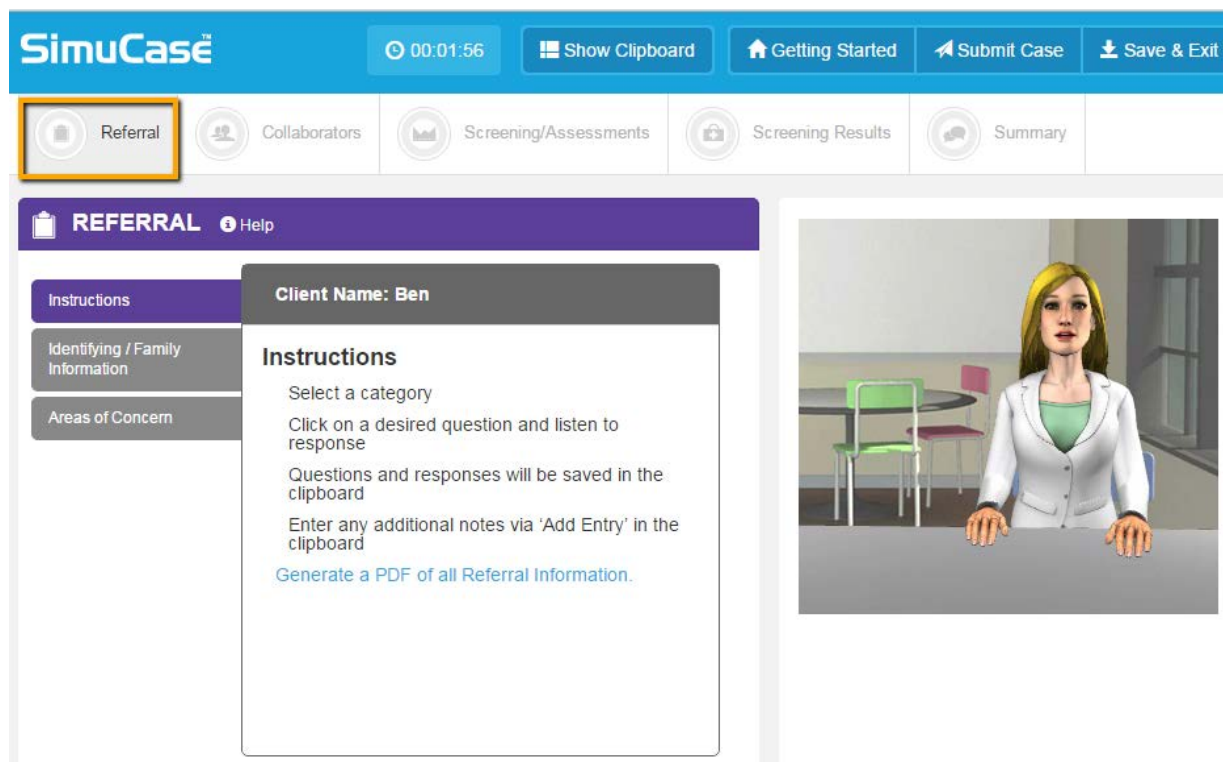
The **Screening and Assessments** tool allows you to choose from a variety of resources to evaluate the client.

Screening Results

Record your results with the **Screening Results** tool.

Referral

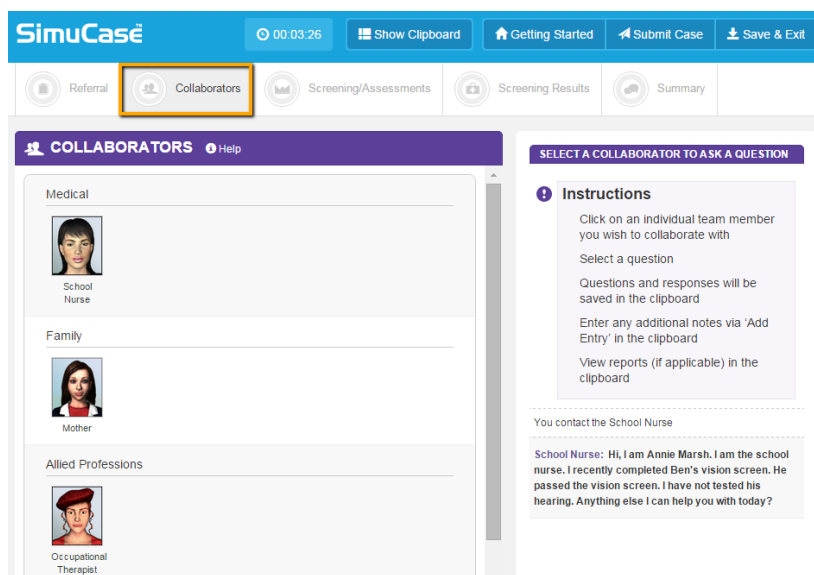
The **Referral** tool allows the user to interact with the supervising speech-language pathologist to find out more information pertaining to the case. The user may select questions. These responses can be viewed and printed at any time. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop.



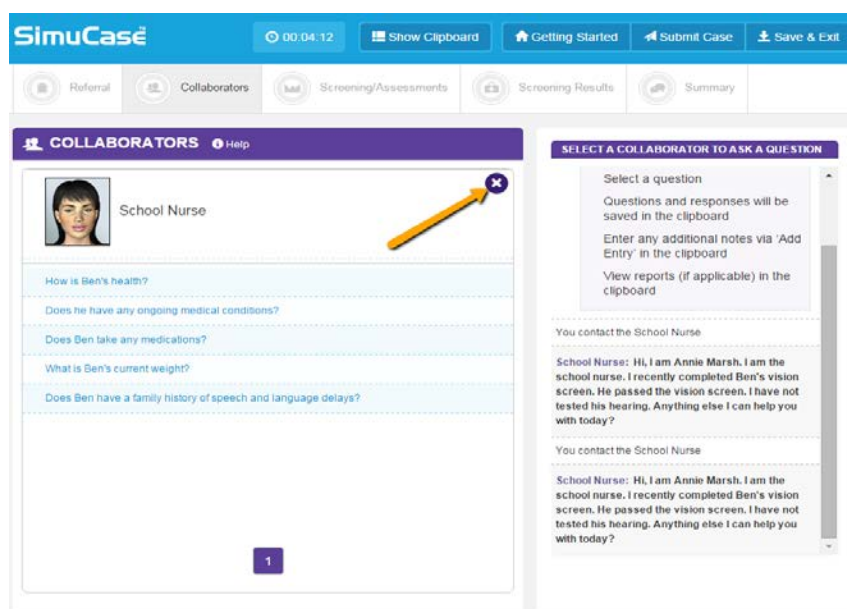
The screenshot displays the SimuCase software interface. At the top, a blue header bar contains the SimuCase logo, a timer showing 00:01:56, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the header is a navigation menu with icons for 'Referral', 'Collaborators', 'Screening/Assessments', 'Screening Results', and 'Summary'. The 'Referral' icon is highlighted with a yellow border. The main content area is titled 'REFERRAL' and includes a 'Help' icon. On the left, a sidebar menu lists 'Instructions', 'Identifying / Family Information', and 'Areas of Concern'. The central panel shows 'Client Name: Ben' and 'Instructions' for the referral tool, including steps to select a category, click on a question, and listen to the response. It also mentions that questions and responses are saved in the clipboard and provides a link to 'Generate a PDF of all Referral Information'. On the right, a video player shows a 3D-rendered female speech-language pathologist sitting at a table in a clinical setting.

Collaborators

The user can consult other family members and various professionals who may be working with the client using the **Collaborators** tool.



Once chosen, a collaborator makes an opening remark and some collaborators will send a report to the user. Reports are sent as PDF files to the Clipboard, where they can be opened. Following the opening remark, users are provided a list of questions to ask the collaborator. Users should be selective of the questions they ask and avoid asking redundant questions. When complete, users will select the x to close the question window in order to collaborate with other professionals. For Screening cases, users must collaborate with the supervising speech-language pathologist to both gain and share information regarding the case.



Screening/Assessments

The **Screening/Assessments** tool allows the user to choose from a variety of screening and assessment measures. Users can print a PDF of all available assessment measures. Printing this PDF allows the user to plan ahead for an efficient session (much like what is required in the real world).

Cognition	Client Name: Ben
Hearing	Speech and Language
Speech and Language	<ul style="list-style-type: none"> 1. Language Sample (Interests) 2. Language Sample (Water Park) 3. Language Sample (Favorite Movie) Ages and Stages Questionnaire, 3rd Ed. (Ben) Ages and Stages Questionnaire: Social-Emotional, 3rd Ed. (Ben) Boehm Test of Basic Concepts 3rd Ed. (Ben) CELF-5 Screening Test (Ben) Clinical Assessment of Articulation and Phonology-2nd Ed. (Ben) Clinical Evaluation of Language Fundamentals- Preschool 2nd Ed. (Ben) Communication and Symbolic Behavior Scales Developmental Profile (Ben) Fruharty Preschool Speech and Language Screening Test 2nd Ed. (Ben)

For all screening/assessment tools, users are expected to know the age range and appropriateness of an approach and activity; an inappropriate choice (e.g., due to age range) will result in negative points and affect the user's overall competency rating.

Screening/Assessment tools are available in a number of formats. Computer-driven assessments are those that the computer automatically provides results. Users simply select the component they wish to utilize. When clicking **Administer**, a summary of the results of the assessment appears in the Interaction box. More detailed results of the screening or assessment are placed in the Clipboard. The user may add to the details in the Clipboard regarding any of the screenings or assessments at any time by clicking **Add Entry**.

SimuCase 00:44:57 Show Clipboard Getting Started Submit Case Save & Exit

Referral Collaborators **Screening/Assessments** Results Summary

SCREENING/ASSESSMENTS Help

Cognition Client Name: Ben

Hearing

Speech and Language

CELF-5 Screening Test (Ben)

Description
Screening used to determine if a child needs testing to identify language disorder.

Administration Time
15 minutes

Administer

References: Wia, Secord, & Semel (2013)

INTERACTION AREA

User-driven screenings/assessments are those that the user controls and all selections are interactive. The user observes, scores, and reports the response accuracy of the client. In some cases, the user-driven treatment is a graded assessment. Graded assessments are interactive and require the user to answer questions that are graded for accuracy. The number of questions tied to each response is variable and the user must answer all questions to advance through the graded assessment. Graded assessments results are NOT included in the clipboard,

SimuCase 00:50:07 Show Clipboard Getting Started Submit Case Save & Exit

Referral Collaborators **Screening/Assessments** Results Summary

SimuCase Language Screen for Preschoolers

(Response) Which picture shows...?
The cat sits while the woman pets it.

Scoring

2 points: Points to picture in upper left corner

0 points: Points to incorrect picture

Play Response

← Back Next → Slide 8 of 67

INTERACTION AREA

Assessment Form:
SimuCase Language Screen for Preschoolers Form

but will be reported on the results page and the final exported report at the completion of the case.

When clicking **Administer**, user-driven screenings/assessments play a video so the user can practice conducting the screening/assessment, scoring, and reporting. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop. Once the user completes an analysis, the data or results obtained may be entered into the clipboard. All screenings/assessments may be re-administered at any time, however, this extra time and effort affects the user's overall time.

Screening Results

The **Screening Results** tool allows the user to indicate outcome of the screening. After making selections, the user clicks **Select**.

The screenshot displays the SimuCase software interface. At the top, a blue navigation bar contains the SimuCase logo, a timer at 00:03:47, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below this is a secondary navigation bar with icons for 'Referral', 'Collaborators', 'Screening/Assessments', 'Screening Results' (highlighted with a red box), and 'Summary'. The main content area is titled 'SCREENING RESULTS' with a 'Help' icon. On the left, a sidebar lists 'Hearing Screening Results' and 'Speech and Language Screening Results'. The central panel, titled 'Client Name: Ben', shows 'Speech and Language Screening Results' with four radio button options: 'Fail Speech and Language Screen', 'Pass Speech and Language Screen', 'Refer for full Speech and Language Evaluation', and 'Report Results to Supervising Speech-Language Pathologist'. A red arrow points to an orange 'Select' button at the bottom right of this panel. On the right side of the interface, there is a video player showing a 3D-rendered child sitting at a desk with a computer monitor. Below the video is a text input field with the placeholder 'TYPE A QUESTION OR RESPONSE'.

Summary

In addition to reporting screening results, the **Summary** tool allows you to select a summary statement for the client. After selecting the summary statement, the user clicks **Submit**.

The screenshot shows the SimuCase software interface. At the top, a blue navigation bar contains the SimuCase logo, a timer at 00:14:27, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below this is a secondary navigation bar with icons and labels for 'Referral', 'Collaborators', 'Screening/Assessments', 'Screening Results', and 'Summary'. The 'Summary' tab is active, showing a purple header with 'SUMMARY' and a 'Help' icon. The main content area has a dark grey header with 'Client Name: Ben'. Below this, a text prompt asks the user to 'Select the most appropriate summary statement from the choices below.' There are five radio button options, each with a light blue dashed border. The first option is selected. At the bottom right of the form is an orange 'Submit' button. To the right of the form is a 3D-rendered image of a young boy with blonde hair, wearing a red t-shirt, sitting at a desk with a computer monitor.

SimuCase™ 00:14:27 Show Clipboard Getting Started Submit Case Save & Exit

Referral Collaborators Screening/Assessments Screening Results Summary

SUMMARY Help

Client Name: Ben

Select the most appropriate summary statement from the choices below.

- A speech and language screen was completed. Ben did not meet the passing criteria
- Ben passed his hearing, speech and language screens.
- Ben failed his hearing screen and passed the speech and language screening.
- Ben qualifies for school-based services.
- Ben passed his hearing screening, but failed his speech and language screening.

Submit

How Does SimuCase Screening Case Scoring Work?

Understanding that SimuCase is a simulated learning experience, users are encouraged to complete the simulation as many times as needed. The most powerful form of learning is through repeated practice. Therefore, users are encouraged to practice and learn from their mistakes and to spend as much time as needed working through a case. As they work through the case, if many mistakes are made, students are encouraged to begin again. They should not be worried about restarting a case for learning purposes.

SimuCase scoring is rated based on strength of decision-making skills. The following describes how decisions within each competency are scored.

Referral

Questions are rated based on strength of decision-making skills when gathering referral information. Users must be selective in the questions chosen. If questions are repeated or are redundant, points may be deducted (redundancy is not the best use of the user's, client's, or caregiver's time). Some questions may be irrelevant and score 0 points; other questions may be inappropriate for the case and will score negative points.

Collaborators

Points are awarded for identifying appropriate collaborators for a case and for selecting relevant questions. Points are deducted for selecting inappropriate team collaborators. Once a collaborator is chosen, the user can ask the collaborator questions to obtain additional information about the case. Points are deducted for asking irrelevant, inappropriate, or redundant questions.

Screening/Assessments

Points are awarded for administering appropriate screening/assessments. Each case has numerous possibilities for outcomes but it is the combination of screening/assessments that is scored.

In screening/assessments, users are deducted points for:

- Selecting inappropriate screening or assessment activity based on the case information
- Selecting an unnecessary screening or assessment activity
- Selecting an age-inappropriate screening or assessment activity
- Selecting two or more screening or assessment activities that measure the same outcome

Screening Results

Points are awarded for selecting the appropriate outcome for speech, language, and hearing screen. Points are deducted for each inappropriate selection.

Summary

Points are awarded for selecting the most appropriate summary statement regarding the progress of the client.

Areas Not Scored

As mentioned previously, the final competency score and rating are calculated based solely on the decisions of the user. Use of the Clipboard is **not** scored. This is an optional feature that assists users with the treatment process. Graded assessment results are reported separately on the results page and within the final exported report, but are **not** included in the calculation of the final competency score or competency rating. The time it takes to complete a case is measured but is also **not** scored. The timer indicates total simulation play time. This can be defined as the time spent in the simulation, which helps users monitor their efficiency in making case decisions. Note that the estimated time it takes to complete specific treatment activities is included in the time spent in the simulation.

The SimuCase Competency Rating

A user's overall competency in screening a particular client is rated and indicated on the Results screen. The Results screen displays a user's overall performance in each of these areas:

- Referral
- Collaborators

- Screenings/Assessments
- Screening Results
- Summary

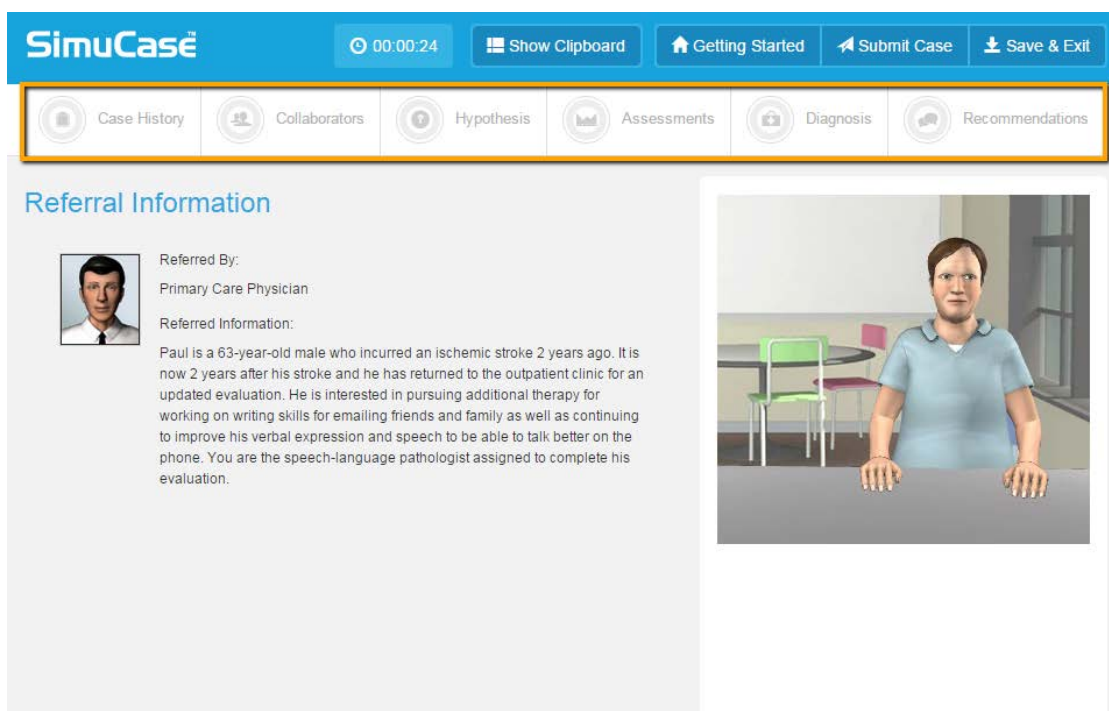
If a user earns a 90% or higher overall score, the Mastering competency rating is earned. If a user earns an overall score of 70-89% a Developing competency rating is earned. If a user fails to earn at least 70% an Emerging competency rating is earned.

Assessment Cases

Assessment cases encourage the student to exercise the clinical decision-making skills required for a full client assessment. The student is expected to interact with family and other professionals to gather information pertinent to the case, as well as administer assessments to make a diagnosis and provide recommendations. Assessment cases are available in both learning and assessment modes. Please direct your students to utilize the most appropriate mode based on your learning objectives, learning activities and assessment methods.

The SimuCase Assessment Tools

The majority of SimuCase tools are presented in the toolbar at the top of the opening screen. Case History, Collaborators, Clinical Hypothesis, Assessments, Diagnosis, Recommendations, Save/Exit, and Submit Case are easy to access via the toolbar. The dynamic clipboard, an additional tool, helps users organize the information they gather about the case. When first opening a case, the Clipboard must be opened and can be resized, as well as closed as needed. The following sections walk you through the purpose and function of each of the menus in the toolbar.



The screenshot displays the SimuCase software interface. At the top, a blue toolbar contains the SimuCase logo, a timer showing 00:00:24, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the toolbar is a row of six circular icons representing 'Case History', 'Collaborators', 'Hypothesis', 'Assessments', 'Diagnosis', and 'Recommendations'. The main content area is titled 'Referral Information' and features a small portrait of a man. To the right of the portrait, the text reads: 'Referred By: Primary Care Physician' and 'Referred Information: Paul is a 63-year-old male who incurred an ischemic stroke 2 years ago. It is now 2 years after his stroke and he has returned to the outpatient clinic for an updated evaluation. He is interested in pursuing additional therapy for working on writing skills for emailing friends and family as well as continuing to improve his verbal expression and speech to be able to talk better on the phone. You are the speech-language pathologist assigned to complete his evaluation.' To the right of the text is a 3D rendered image of a woman with short brown hair, wearing a light blue polo shirt, standing behind a grey counter in a clinical setting.

Case History

The **Case History** tool allows the user to interact with a virtual client or caregiver (e.g., a parent). By choosing a category of questions and then directly selecting questions within the category, the virtual client or caregiver responds. As questions are selected, responses are placed in the user's Clipboard as though the user is taking notes. These responses can be viewed and printed at any time.

The screenshot displays the SimuCase software interface. At the top, a blue header bar contains the SimuCase logo, a timer showing 00:03:28, and buttons for 'Hide Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the header is a navigation bar with icons for 'Case History', 'Collaborators', 'Hypothesis', 'Assessments', 'Diagnosis', and 'Recommendations'. The 'Case History' icon is highlighted with an orange border.

The main interface is divided into two main sections. On the left, a purple header reads 'CASE HISTORY' with a 'Help' icon. Below this is a sidebar with a list of categories: 'Instructions', 'Identifying / Family Information', 'Areas of Concern', 'Developmental', 'Hearing / Vision', 'Medical', 'Feeding / Swallowing', 'Speech, Fluency, and Voice', 'Language / Literacy', 'Social / Behavioral', and 'Education / Vocation'. The 'Instructions' category is selected, showing a panel with the following text:

Client Name: Paul

Instructions

Select a case history category
Click on a desired question and listen to response

Questions and responses will be saved in the clipboard

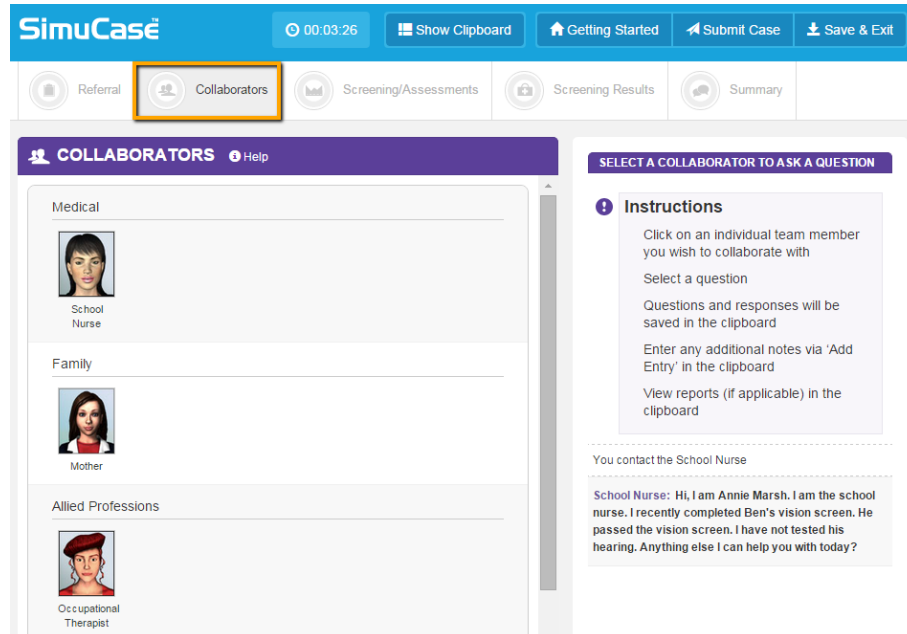
Enter any additional notes via 'Add Entry' in the clipboard

[Generate a PDF of all Case History.](#)

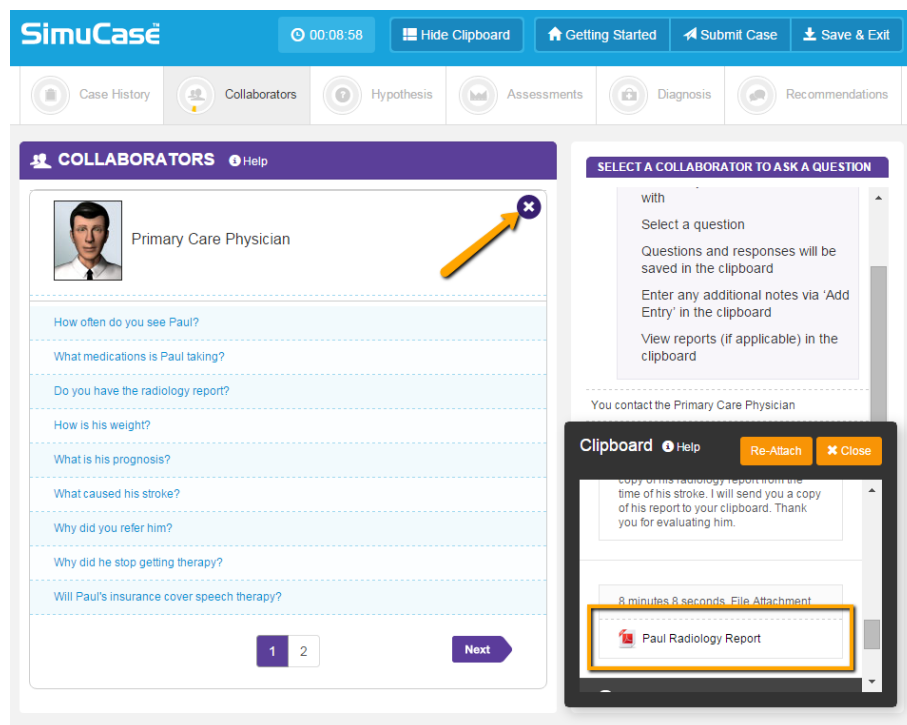
On the right side of the interface, a 3D virtual character of a woman in a light blue polo shirt stands behind a grey counter. Below the character is a 'Clipboard' panel with a 'Help' icon and 'Re-Attach' and 'Close' buttons. The clipboard contains a 'Case History' section with a dropdown arrow, 'User Notes' with a '+ Add Entry' button, and sections for 'Collaborators' and 'Hypothesis' with left-pointing arrows.

Collaborators

The user can consult other family members and various professionals who may be working with the client using the **Collaborators** tool.



Once chosen, a collaborator makes an opening remark; then the collaboration occurs via selected questions. Some collaborators will send a report to the user. Reports are sent as PDF files to the Clipboard, where they can be opened. When complete, users will select the x to close the question window in order to collaborate with other professionals.



Clinical Hypothesis

The clinical hypothesis tool allows the learner to record a clinical theory and plan regarding the client's presentation of behaviors. The purpose of the clinical hypothesis is to guide clinical decision-making throughout the simulation. The student must type in both the hypothesis and the action plan in the designated text fields. Once the student clicks the **Save** button, the data is then stored in the clipboard for later review. The clinical hypothesis is not graded, but is instead marked as complete or incomplete in the final report.

The screenshot displays the SimuCase Hypothesis tool interface. At the top, a blue navigation bar contains the SimuCase logo, a timer showing 00:12:23, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below this is a secondary navigation bar with icons for 'Case History', 'Collaborators', 'Hypothesis' (highlighted with an orange box), 'Assessments', 'Diagnosis', and 'Recommendations'. The main content area has a purple header with 'HYPOTHESIS' and a 'Help' icon. Underneath, the 'Client Name: Paul' is displayed. A section for 'Hypothesis #1' includes a 'Delete' button and a text input field. Below that is an 'Action Plan:' section with another text input field. A link 'Add Another Hypothesis' is visible. At the bottom of the form are 'Discard Changes' and 'Save Hypothesis' buttons, with an orange arrow pointing to the 'Save Hypothesis' button. To the right of the form is a 3D avatar of a woman in a light blue polo shirt standing behind a counter in a clinical setting.

Assessments

The **Assessments** tool allows the user to choose from a variety of resources—including both standardized tests and non-standardized tests and procedures—with which to evaluate the client. The assessment options are categorized by the domain or area of assessment (e.g., Articulation and Phonology, Fluency, Classroom Performance) and by subcategories within those areas. Users can print a PDF of all available assessment options categorized by domain and subcategories. Printing this PDF allows the user to plan ahead for an efficient assessment (much like what is required in the real world).

SimuCase™ 00:13:23 Show Clipboard Getting Started Submit Case Save & Exit

Case History Collaborators Hypothesis Assessments Diagnosis Recommendations

ASSESSMENTS Help

Instructions

Client Name: Paul

Instructions

- Select an assessment category
- Choose desired analysis procedure
- Click on the Assessment Form (s) link to download more information or blank assessment protocols
- Click on the administer button to listen/view samples
- View results in clipboard (if applicable)
- Enter any additional notes via 'Edit' or 'Add Entry' in the clipboard

[Generate a PDF of all Assessments.](#)

Aphasia

Cognition

Dysphagia

Fluency

Hearing

Motor Speech / Intelligibility

Oral Peripheral

Psychosocial

Reading

Verbal Expression

Voice and Resonance

Writing

For all assessment tools, a brief description of the test or procedure is given as well as the reference/source. Users are expected to know the age range and appropriateness of an assessment tool; an inappropriate choice (e.g., due to age range, area of assessment) will result

in negative points and affect the user's overall competency rating. A link to the Reference List is provided so users can refer to the original source for more information, including how to conduct a procedure and/or how to interpret results.

Administration of assessments is either computer driven or user driven. Computer-driven assessments are those that the computer automatically provides results. Users simply select the component they wish to assess, then the test or subtest they wish to administer. When clicking **Administer**, a summary of the results of the assessment appears in the Interaction box. More detailed results of the assessment are placed in the Clipboard. The user may add to the details in the Clipboard regarding any of the assessments at any time by clicking **Add Entry**.

The screenshot displays the SimuCase interface. At the top, the 'SimuCase' logo is on the left, followed by a timer showing '00:14:53', a 'Hide Clipboard' button, and three navigation buttons: 'Getting Started', 'Submit Case', and 'Save & Exit'. Below this is a main navigation bar with icons for 'Case History', 'Collaborators', 'Hypothesis', 'Assessments', 'Diagnosis', and 'Recommendations'. The 'ASSESSMENTS' section is active, showing a list of assessment categories on the left: Instructions, Aphasia, Cognition, Dysphagia, Fluency, Hearing, Motor Speech / Intelligibility, Oral Peripheral, Psychosocial, Reading, Verbal Expression, Voice and Resonance, and Writing. The 'Aphasia' category is selected, displaying details for the 'Boston Assessment of Severe Aphasia (BASA)'. The details include the client name 'Paul', a description of the assessment, a link to the 'Paul Reference List', and an administration time of 30 minutes. An orange arrow points to the 'Administer' button. To the right, a 3D avatar of a woman stands behind a table. Below the avatar is a 'Clipboard' window showing a 'Paul Radiology Report' and a list of sections: Hypothesis, Assessments (with a '+ Add Entry' button highlighted in a yellow box), User Notes, and Diagnosis.

User-driven assessments are those that the user controls. The user observes, scores, analyzes, and interprets results. Examples of user-driven assessments include procedures to analyze a speech sample, a language sample, a play session, an interview, or an oral mechanism exam.

The user-driven assessments include blank forms to download and use when conducting the procedure and analysis. When clicking **Administer**, many user-driven assessments have a video file play so the user can practice conducting the procedure, the scoring, and the analysis. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop. Other user-driven assessment tools do not provide a video or audio file for analysis. Rather a checklist, written language sample, etc. is downloaded to the Clipboard for analysis. Once the user completes an analysis, the data or results obtained can be entered into the clipboard. All assessments may be re-administered at any time, however, this extra time and effort affects the user's overall time.

The screenshot displays the SimuCase™ software interface. At the top, a blue navigation bar contains the SimuCase™ logo, a timer showing 02:18:15, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below this is a secondary navigation bar with icons for 'Case History', 'Collaborators', 'Hypothesis', 'Assessments', 'Diagnosis', and 'Recommendations'. The main interface is divided into several sections:

- ASSESSMENTS** (purple header): A sidebar on the left lists various assessment categories such as Aphasia, Cognition, Dysphagia, Fluency, Hearing, Motor Speech / Intelligibility, Oral Peripheral, Psychosocial, Reading, Verbal Expression, Discourse Tasks, Naming, Voice and Resonance, and Writing. 'Discourse Tasks' is currently selected.
- Client Name: Paul**: A central panel displays client information, including a 'Picture Description' and 'Description' (Paul was given 'The Runaway' by Norman Rockwell and asked to describe the picture). It also lists 'Assessment Forms' (Paul's Reference List) and 'Administration Time' (Self-paced). A 'Re-Administer' button is visible.
- Video Player**: A video player shows a 3D-rendered male character in a room. A red box highlights the 'Audio and Video Controls' at the bottom of the player, which includes play/pause, volume, and full-screen buttons.
- INTERACTION AREA** (purple header): A list of instructions for the user, such as 'Results: Inappropriate for client referral.', 'Assessment Form: Paul's Reference List', and 'Enter notes in the clipboard after viewing Paul's response.'

Diagnosis

The **Diagnosis** tool allows the user to indicate a diagnosis. Categories and subcategories of diagnoses are provided as choices. Cases may have multiple diagnoses so users need to be thorough in their choices. Cases may also have no area of concern. Once choosing the categories/subcategories of diagnoses or indicating no concern, the user clicks **Select**.

The screenshot displays the SimuCase software interface. At the top, a blue header bar contains the SimuCase logo, a timer showing 00:17:21, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the header is a navigation bar with icons for 'Case History', 'Collaborators', 'Hypothesis', 'Assessments', 'Diagnosis' (highlighted with an orange border), and 'Recommendations'. The main content area is titled 'DIAGNOSIS' and includes a 'Help' icon. On the left, a vertical list of diagnosis categories is shown, including Aphasia, Apraxia, Articulation/Phonology/Speech Disorders, Attention/Behavioral, Autism/Social/Emotional, Central Auditory Processing, Dialect, Dysarthria, Dysphagia/Feeding, Fluency, Hearing/Cochlear Implant, and Language. The central panel displays 'Client Name: Paul' and 'Instructions' for the diagnosis tool, which include: 'Select a diagnosis category', 'Check all diagnoses that apply including previous diagnoses and factors for this case', 'Click on the Select button', and 'Selections will be saved to the clipboard'. A link is provided: 'Click here to generate a PDF of all Diagnoses.' On the right, a 3D avatar of a man in a light blue shirt stands behind a table in a virtual environment.

Recommendations

In addition to making a diagnosis, the **Recommendations** tool allows you to select recommendations for the client. If intervention is required, that recommendation must be made. Once selecting the recommendation, the user clicks **Save Recommendation**. Recommendations can be added or deleted at any time until the case is submitted.

SimuCase 00:18:47 Show Clipboard Getting Started Submit Case Save & Exit

Case History Collaborators Hypothesis Assessments Diagnosis **Recommendations**

RECOMMENDATIONS Help

Client Name: Paul

Select the most appropriate recommendation from the choices below.

- Client qualifies for outpatient services. Recommend individual and group therapy. Treatment should focus on improving verbal and written expression, developing compensatory strategies, and improving conversational skills. Recommend patient and family education.
- Client does not qualify for outpatient services. Recommend patient and family education.
- Client qualifies for outpatient services. Recommend individual and group therapy. Treatment should focus on improving verbal and written expression and improving conversational skills. Recommend accommodations and modifications in the classroom.
- Client qualifies for outpatient services. Recommend individual therapy. Treatment should focus on improving conversational skills. Recommend patient and family education.
- Client qualifies for outpatient services. Treatment should focus on improving auditory comprehension. Recommend patient and family education.

Submit

How Does SimuCase Assessment Case Scoring Work?

Understanding that SimuCase is a simulated learning experience, users are encouraged to complete the simulation as many times as needed. The most powerful form of learning is through repeated practice. Therefore, users are encouraged to practice and learn from their mistakes and to spend as much time as needed working through a case. They should not be afraid to start over when mistakes are noted and they should not fear starting over often.

SimuCase scoring is rated based on strength of decision-making skills. The following describes how decisions within each competency are scored.

Case History

Questions are rated based on strength of decision-making skills. Users must be selective in the questions chosen. If questions are repeated or are redundant when a question was already asked, points may be deducted (redundancy is not the best use of the user's, client's, or caregiver's time). Some questions may be irrelevant and score 0 points; other questions may be inappropriate for the case and will score negative points.

Collaborators

Points are awarded for identifying appropriate collaborators for a case and for selecting relevant questions. Points are deducted for selecting inappropriate team collaborators. Once a collaborator is chosen, the user can select the collaborator questions to obtain additional information about the case. Users are deducted points for selecting redundant and inappropriate questions.

Assessments

Points are awarded for administering appropriate standardized assessments or informal measures. Each case has numerous possibilities for assessments but it is the combination of assessments that is scored.

In assessments, users are deducted points for:

- Selecting inappropriate assessments based on the information and topic area (e.g., a stuttering assessment for a language case)

- Selecting an unnecessary assessment
- Selecting an age-inappropriate assessment (e.g., selecting the *Clinical Evaluation of Language Functions-Preschool* for an adolescent student)
- Selecting two or more assessments that measure the same outcome (CAAP-2 and the HAPP-3)

Diagnosis

Points are awarded for identifying areas of concern for a given case. Each case study can contain one or several areas of concern or diagnoses. Each of these areas needs to be selected based on assessment results in order to show competency. Points are deducted for each inappropriate diagnosis identified. Note that the outcome of a case can also have no area of concern.

Recommendations

Points are awarded for selecting the most appropriate recommendation for each case.

Areas Not Scored

Use of the Clipboard is **not** scored. This is an optional feature that assists users with the assessment process. The time it takes to complete a case is measured but is also not scored. The timer indicates total simulation play time. This can be defined as the time spent in the simulation, which helps users monitor their efficiency in making case decisions. Note that the estimated time it takes to administer specific tests and procedures is included in the time spent in the simulation. The clinical hypothesis is not scored; it is marked as complete or incomplete in the final report.

The SimuCase Competency Rating

A user's overall competency in assessing a particular case is rated and indicated on the Results screen. The Results screen displays a user's overall performance in each of these areas:

- Case History
- Collaborators
- Clinical Hypothesis

- Assessments
- Diagnosis
- Recommendations

If a user earns a 90% or higher overall score, the Mastering competency rating is earned. If a user earns an overall score of 70-89% a Developing competency rating is earned. If a user fails to earn at least 70% an Emerging competency rating is earned.

Scoring Model

On the Results page, click **Scoring Model** to review an example of the breakdown of the skills for each case. Competencies are based on the American Speech-Language-Hearing Association's (2009) Knowledge and Skills Acquisition (KASA) standards. Each case has customized KASA competencies to track user performance.

Intervention Cases

Intervention cases are designed to provide learners the opportunity to improve interventions skills; each case includes intervention activities that allow for practice of treatment methods.

Please note the intervention cases are only available in assessment mode.

The SimuCase Intervention Tools

The majority of SimuCase tools are presented in the toolbar at the top of the opening screen. Baseline Data, Collaborators, Treatment, Client Progress, Summary, Save/Exit, and Submit Case are easy to access via the toolbar. The dynamic clipboard, an additional tool, helps users organize the information they gather about the case. When first opening a case, the Clipboard must be opened and can be resized, as well as closed as needed. The following sections walk you through the purpose and function of each of the menus in the toolbar.

The screenshot displays the SimuCase interface. At the top is a blue toolbar with the SimuCase logo on the left and several buttons on the right: a timer showing 00:00:30, a 'Show Clipboard' button, a 'Getting Started' button, a 'Submit Case' button, and a 'Save & Exit' button. Below the toolbar is a row of five tool icons: Baseline Data, Collaborators, Treatment, Client Progress, and Summary. The main content area is titled 'Getting Started' and contains the following text:

Hello! We are excited that you are here to meet your client. Your task is to provide intervention for your client.

The resizable, interactive Clipboard saves all of your decisions for subsequent review.

To ensure your data is saved correctly, please do not play the game in multiple browser windows.

Before you see the client today, here are some tips to help you navigate SimuCase and work with your client.

The SimuCase logo is also visible on the right side of the 'Getting Started' section.

Below the 'Getting Started' section, there are five tool descriptions:

- Baseline Data:** The Baseline Data tool allows you to interact with the virtual client and collect baseline data.
- Collaborators:** You can consult with other professionals and family members using the Collaborators tool.
- Summary:** The Summary tool allows you to select a summary statement for the client.
- Treatment:** The Treatment tool allows you to choose from a variety of activities to use with the client.
- Client Progress:** Record your results with the Client Progress tool.

Baseline Data

The **Baseline Data** tool allows the user to interact with the virtual client. By choosing a category of questions (i.e. language samples) and then directly selecting questions within the category, the virtual client responds. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop.

SimuCase 00:01:18 Show Clipboard Getting Started Submit Case Save & Exit

Baseline Data Collaborators Treatment Client Progress Summary

BASELINE DATA Help

Instructions

Identifying / Family Information

Language Samples

Session Objectives

Client Name: Anna

Instructions

- Select a category
- Click on a desired prompt and listen to response
- Questions and responses will be saved in the clipboard
- Select appropriate objective(s) for this case
- Enter any additional notes via 'Add Entry' in the clipboard

[Generate a PDF of all Baseline Data.](#)

Video player showing a virtual client (Anna) sitting at a table.

Collaborators

The user can consult other family members and various professionals who may be working with the client using the **Collaborators** tool. Once chosen, a collaborator makes an opening remark; then the collaboration occurs via selecting questions for the chosen collaborator. Some collaborators will send a report to the user. Reports are sent as PDF files to the Clipboard, where they can be opened. For intervention cases, users must collaborate with the supervising speech-language pathologist to both gain and share information regarding the case.

SimuCase™ 00:02:36 Show Clipboard Getting Started Submit Case Save & Exit

Baseline Data **Collaborators** Treatment Client Progress Summary

COLLABORATORS Help

SELECT A COLLABORATOR TO ASK A QUESTION

Instructions

- Click on an individual team member you wish to collaborate with
- Select a question
- Questions and responses will be saved in the clipboard
- Enter any additional notes via 'Add Entry' in the clipboard
- View reports (if applicable) in the clipboard

Educational

Preschool Teacher

Family

Anna's Mother

Allied Professions

Occupational Therapist Physical Therapist Supervising Speech-Language Pathologist Music Therapist

Treatments

The **Treatment** tool allows the user to choose from a variety of treatment activities which to evaluate the client. The treatment approach options are categorized by type of activity and each activity includes a variety of intervention techniques. Users can print a PDF of all available treatment options categorized by activity and approaches. Printing this PDF allows the user to plan ahead for an efficient treatment session (much like what is required in the real world).

The screenshot displays the SimuCase software interface. At the top, the 'SimuCase' logo is on the left, followed by a timer showing '00:03:33'. To the right of the timer are buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below this is a main navigation bar with icons for 'Baseline Data', 'Collaborators', 'Treatment' (highlighted with an orange box), 'Client Progress', and 'Summary'. The 'TREATMENT' section is active, displaying a list of treatment activities on the left and a central panel with instructions for 'Client Name: Anna'. The instructions include: 'Select a treatment activity', 'Choose desired intervention approach', 'Click on the administer button to begin activity', 'Select the correct response(s) for each question', and 'Enter any additional notes via 'Add Entry' in the clipboard'. A link to 'Generate a PDF of all Treatments.' is also present. On the right, there is a 3D rendered image of a young girl with brown hair, wearing a purple polka-dot shirt, sitting at a table.

For all treatment tools, users are expected to know the age range and appropriateness of an approach and activity; an inappropriate choice (e.g., due to age range) will result in negative points and affect the user's overall competency rating. Treatment tools are available in a number of formats. Computer-driven treatments are those that the computer automatically provides results. Users simply select the component they wish to utilize. When clicking **Administer**, a summary of the results of the treatment appears in the Interaction box. More detailed results of the treatment are placed in the Clipboard. The user may add to the details in the Clipboard regarding any of the treatments at any time by clicking **Add Entry**.

The screenshot displays the SimuCase software interface. At the top, there is a blue header with the SimuCase logo, a timer showing 00:05:31, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the header is a navigation bar with icons for 'Baseline Data', 'Collaborators', 'Treatment' (highlighted with an orange box), 'Client Progress', and 'Summary'. The main content area is split into two panels. The left panel, titled '/k/ Sound in Isolation', shows a video player with the text '/k/ sound' and a 'Play Response' button. Below the video player are 'Back' and 'Next' buttons, and the text 'Slide 2 of 10'. The right panel shows a 3D avatar of a young girl with brown hair, wearing a purple polka-dot shirt, sitting at a desk. Below the avatar is a list of assessment forms, each with a blue 'Anna Reference List' link. The first item has a red exclamation mark icon and the text 'Results: Not appropriate due to client age and referral.' The other two items have blue exclamation mark icons.

User-driven treatments are those that the user controls and all selections are interactive. The user observes, scores, and reports the response accuracy of the client. In some cases, the user-driven treatment is a graded assessment. Graded assessments require the user to answer questions for each response. The number of questions tied to each response is variable and the user must answer all questions to advance through the graded assessment. Graded assessments results are NOT included in the clipboard, but will be reported on the results page and the final exported report at the completion of the case.

When clicking **Administer**, user-driven treatments play a video so the user can practice conducting the technique, the scoring, and the reporting. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop. Once the user completes an analysis,

the data or results obtained may be entered into the clipboard. All treatments may be re-administered at any time, however, this extra time and effort affects the user's overall time.

Client Progress

The **Client Progress** tool allows the user to indicate the accuracy for completed treatment activities. The user is expected to indicate the appropriate level of accuracy, take home activities, and indicate if the objectives were or were not met for the sessions. After making selections, the user clicks **Select**.

The screenshot displays the SimuCase Client Progress interface. At the top, the SimuCase logo is on the left, followed by a timer showing 00:06:59 and several utility buttons: Show Clipboard, Getting Started, Submit Case, and Save & Exit. Below the top bar is a navigation menu with icons and labels for Baseline Data, Collaborators, Treatment, Client Progress (highlighted with an orange border), and Summary. The main content area features a purple header with 'CLIENT PROGRESS' and a 'Help' icon. On the left side, there is a list of instructions, with '*Objective' and '*Take-Home Activity' highlighted in purple and orange respectively. The main panel shows the client's name as 'Anna' and two radio button options: 'Objective met' and 'Objective was not met'. An orange 'Select' button is located at the bottom right of the main panel. On the right side of the interface, there is a 3D rendered image of a young girl with brown hair, wearing a purple polka-dot shirt, sitting at a table.

Summary

In addition to reporting client progress, the **Summary** tool allows the user to select specific details regarding the client's session. After selecting the summary, the user clicks **Save Summary**. The summary can be edited at any time until the case is submitted.

SimuCase™ 00:08:05 Show Clipboard Getting Started Submit Case Save & Exit

Baseline Data Collaborators Treatment Client Progress **Summary**

SUMMARY Help

Client Name: Anna

Select the most appropriate summary statement from the choices below.

- Anna was attentive throughout. She engaged in all activities. She produced /k/ in the initial position of words with 80% accuracy. Provided take-home activities and reported session results to supervising SLP, continue plan of care.
- Anna was attentive throughout. She engaged in all activities. She produced /k/ in the final position of words with 50% accuracy.
- Anna was attentive throughout. She engaged in all activities. She produced /k/ in the initial position of words with 60% accuracy. Provided take-home activities and reported session results to supervising SLP, continue plan of care.
- Anna was attentive throughout. She engaged in all activities. She produced /k/ in isolation with 100% accuracy. Session results reported to supervising SLP, continue plan of care.
- Anna did not participate in therapy. Session results reported to supervising SLP, continue plan of care.

Submit

How Does SimuCase Intervention Case Scoring Work?

Understanding that SimuCase is a simulated learning experience, users are encouraged to complete the simulation as many times as needed. The most powerful form of learning is through repeated practice. Therefore, users are encouraged to practice and learn from their mistakes and to spend as much time as needed working through a case. As they work through the case, if many mistakes are made, students are encouraged to begin again. They should not be worried about restarting a case for learning purposes.

SimuCase scoring is rated based on strength of decision-making skills. The following describes how decisions within each competency are scored.

Baseline Information

Questions are rated based on strength of decision-making skills when gathering language samples. Users must be selective in the questions chosen. Some questions may be irrelevant and score 0 points; other questions may be inappropriate for the case and will score negative points.

Collaborators

Points are awarded for identifying appropriate collaborators for a case and for selecting relevant questions. Points are deducted for selecting inappropriate team collaborators. Once a collaborator is chosen, the user can select the collaborator questions to obtain additional information about the case. Users are deducted points for selecting inappropriate, irrelevant, or redundant questions of a collaborator.

Treatments

Points are awarded for administering appropriate treatment activities. Each case has numerous possibilities for treatments but it is the combination of activities that is scored.

In treatments, users are deducted points for:

- Selecting inappropriate treatment activity based on the case information
- Selecting an unnecessary treatment activity

- Selecting an age-inappropriate treatment activity
- Selecting two or more treatment activities that measure the same outcome

Client Progress

Points are awarded for identifying the accuracy for an appropriate level of targeting the sound(s) in question for a given client, appropriate take home activities and the correct status of objectives. Points are deducted for each inappropriate selection.

Summary

Points are awarded for selecting the most appropriate summary statement regarding the progress of the client.

Areas Not Scored

As mentioned previously, the final competency score and rating are calculated based solely on the decisions of the user. Use of the Clipboard is **not** scored. This is an optional feature that assists users with the treatment process. Graded assessment results are reported separately on the results page and within the final exported report, but are **not** included in the calculation of the final competency score or competency rating. The time it takes to complete a case is measured but is also **not** scored. The timer indicates total simulation play-time. This can be defined as the time spent in the simulation that helps users monitor their efficiency in making case decisions. Note that the estimated time it takes to complete specific treatment activities is included in the time spent in the simulation.

The SimuCase Competency Rating

A user's overall competency in treating a particular client is rated and indicated on the Results screen. The Results screen displays a user's overall performance in each of these areas:

- Baseline Information
- Collaborators
- Treatments
- Client Progress
- Summary

If a user earns a 90% or higher overall score, the Mastering competency rating is earned. If a user earns an overall score of 70-89% a Developing competency rating is earned. If a user fails to earn at least 70% an Emerging competency rating is earned.

Part Task Trainer Cases

Part Task Trainer cases are designed to improve the skill sets necessary for a specific assessment measure.

The SimuCase Part Task Trainer Case Tools

The majority of SimuCase tools are presented in the toolbar at the top of the opening screen. Referral, Manual, Screening/Assessments, Assessment Results, Summary, Save/Exit, and Submit Case are easy to access via the toolbar. The dynamic clipboard, an additional tool, helps users organize the information they gather about the case. When first opening a case, the Clipboard must be opened and can be resized, as well as closed as needed. The following sections walk you through the purpose and function of each of the menus in the toolbar.

The screenshot displays the SimuCase interface. At the top is a blue toolbar with the SimuCase logo on the left, a timer showing 00:00:46, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the toolbar is a row of icons for 'Referral', 'Manual', 'Screening/Assessments', 'Assessment Results', and 'Summary'. The main content area is titled 'Getting Started' and contains the following text:

Getting Started

Hello! We are excited that you are here to meet your client. Your task is to **gather information** pertinent to the client and **complete the Expressive Vocabulary Test 2nd Edition with your client**.

The resizable, interactive **Clipboard** saves all of your decisions for subsequent review.

To ensure your data is saved correctly, please do not play the case in multiple browser windows.

Before you see the client today, here are some tips to help you navigate SimuCase and assess your client.

The SimuCase logo is also visible on the right side of the 'Getting Started' section.

Below the main text are five tool descriptions:

- Referral**: The **Referral** tool allows you to review referral information.
- Manual**: You can consult the assessment manual using the **Manual** tool.
- Summary**: The **Summary** tool allows you to select a summary statement of your findings.
- Screening/Assessments**: The **Screening and Assessments** tool allows you to practice administering the Expressive Vocabulary Test 2nd Edition with your client.
- Assessment Results**: Record your results with the **Screening Results** tool.

Referral

The **Referral** tool allows the user to interact with a speech-language pathologist to find out

more information pertaining to the case. The user may select questions. These responses can be viewed and printed at any time. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop.

The screenshot displays the SimuCase software interface. At the top, a blue header bar contains the SimuCase logo, a timer showing 00:02:09, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the header is a navigation bar with icons for 'Referral', 'Manual', 'Screening/Assessments', 'Assessment Results', and 'Summary'. The main content area is divided into two sections. On the left, a purple sidebar titled 'REFERRAL' with a 'Help' icon contains a list of items: 'Instructions' and 'Referral'. The 'Referral' item is selected, and its content is displayed in a white box with a dark header that reads 'Client Name: Jeannie EVT 2 Part Task Trainer'. The content of the 'Referral' section includes a list of questions: 'What assessment should I administer?', 'What does the EVT 2 assess?', 'Should I administer any additional tests other than the EVT 2?', 'What is Jeannie's chronological age?', 'What is her raw score?', and 'Should I use test form A or test form B?'. On the right side of the main content area, there is a video player showing a woman with long brown hair wearing a pink top, smiling.

Manual

The user can consult the assessment manual using the **Manual** tool.

Once chosen, the manual makes an opening remark and sends portions of the printed manual to the Clipboard. Reports are sent as PDF files to the Clipboard, where they can be opened. Following the opening remark, users are provided a list of questions to ask the manual. Users should be selective of the questions they ask and avoid asking redundant questions. When complete, users will select the x to close the question window.

Screening/Assessments

The **Screening/Assessments** tool allows the user to administer screening and assessment measures.

SimuCase 00:00:24 Show Clipboard Getting Started Submit Case Save & Exit

Referral Manual **Screening/Assessments** Assessment Results Summary

SCREENING/ASSESSMENTS Help

Instructions Client Name: Jeannie EVT 2 Part Task Trainer

Vocabulary

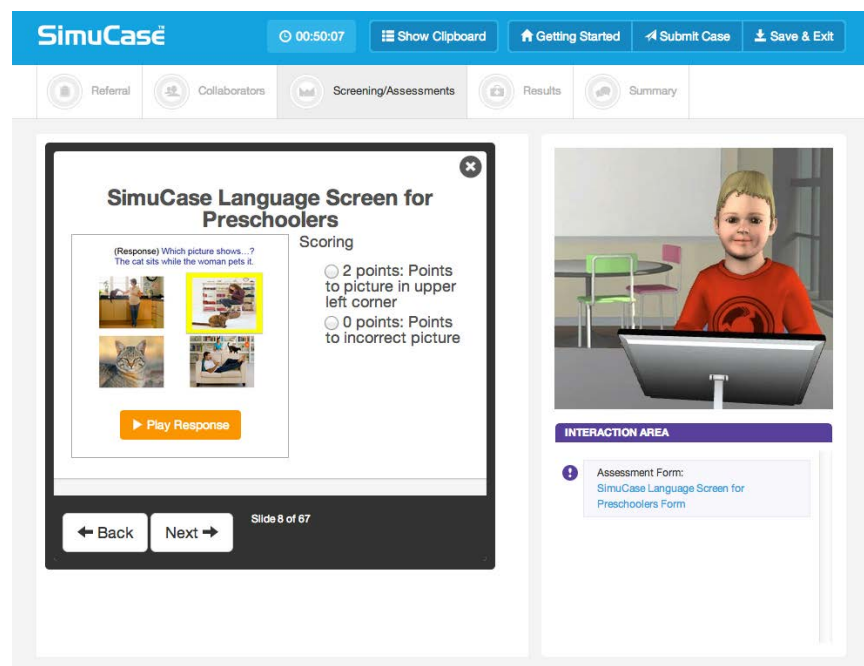
Instructions

- Select a screening or assessment measure
- Review instructions prior to administering
- Click on the administer button to begin assessment
- Select the correct response(s) for each question
- Use the 'Add Entry' function in the clipboard to enter any additional notes and help you keep track of accuracy.

[Generate a PDF of all Screening/Assessments](#)

For all screening/assessment tools, users are expected to know the age range and appropriateness of an approach and activity; an inappropriate choice (e.g., due to age range) will result in negative points and affect the user's overall competency rating. The user may add to the details in the Clipboard regarding any of the screenings or assessments at any time by clicking **Add Entry**.

User-driven screenings/assessments are those that the user controls and all selections are interactive. The user observes, scores, and reports the response accuracy of the client. In some cases, the user-driven treatment is a graded assessment. Graded assessments are interactive and require the user to answer questions that are graded for accuracy. The number of questions tied to each response is variable and the user must answer all questions to advance through the graded assessment. Graded assessments results are NOT included in the clipboard, but will be reported on the results page and the final exported report at the completion of the case.



When clicking **Administer**, user-driven screenings/assessments play a video so the user can practice conducting the screening/assessment, scoring, and reporting. All videos allow the user to adjust the volume, play at full screen, replay, rewind, pause, or stop. Once the user completes an analysis, the data or results obtained may be entered into the clipboard. All screenings/assessments may be re-administered at any time, however, this extra time and effort affects the user's overall time.

Screening Results

The **Assessment Results** tool allows the user to indicate outcome of the screening. After making

selections, the user clicks **Select**.

The screenshot displays the SimuCase software interface. At the top, a blue navigation bar contains the SimuCase logo, a timer showing 00:02:14, and buttons for 'Show Clipboard', 'Getting Started', 'Submit Case', and 'Save & Exit'. Below the navigation bar is a menu with five items: 'Referral', 'Manual', 'Screening/Assessments', 'Assessment Results', and 'Summary'. The 'Assessment Results' menu item is selected and highlighted in purple. The main content area is titled 'ASSESSMENT RESULTS' and includes a 'Help' icon. On the left, there is a list of assessment metrics, each with a radio button and a numerical value. The 'Age Equivalent' metric is currently selected. On the right, there is a video feed of a young woman with long brown hair, wearing a grey t-shirt, looking directly at the camera. At the bottom right of the assessment list, there is an orange 'Select' button.

Metric	Value
Age Equivalent	10:5
Ceiling Item	10:9
Confidence Interval 90%	13:11
Grade Equivalent	16:11
Growth Scale Value (GSV)	17:11
Normal Curve Equivalent (NCE)	18:11
Percentile	21:7
Standard Score	22:3
Stanine	>24:11
Total Number of Incorrect Items	
Total Raw Score	

Summary

In addition to reporting screening results, the **Summary** tool allows you to select a summary statement for the client. After selecting the summary statement, the user clicks **Submit**.

SimuCase 00:02:55 Show Clipboard Getting Started Submit Case Save & Exit

Referral Manual Screening/Assessments Assessment Results **Summary**


SUMMARY Help

Client Name: Jeannie EVT 2 Part Task Trainer

Select the most appropriate summary statement from the choices below.

- Jeannie's performance on the EVT 2 indicates that her expressive vocabulary functioning is in the low average range for her age.
- Jeannie's performance on the EVT 2 indicates that her expressive vocabulary functioning is within the average range for her age.
- Jeannie's performance on the EVT 2 indicates that her expressive vocabulary functioning is in the moderately high range for her age.
- Jeannie's performance on the EVT 2 indicates that her expressive vocabulary functioning is two standard deviations below the mean for her age.
- Jeannie's performance on the EVT 2 indicates that her expressive vocabulary functioning is one standard deviation below the mean for her age.

Submit



How Does SimuCase Part Task Trainer Case Scoring Work?

Understanding that SimuCase is a simulated learning experience, users are encouraged to complete the simulation as many times as needed. The most powerful form of learning is through repeated practice. Therefore, users are encouraged to practice and learn from their mistakes and to spend as much time as needed working through a case. As they work through the case, if many mistakes are made, students are encouraged to begin again. They should not be worried about restarting a case for learning purposes.

SimuCase scoring is rated based on strength of decision-making skills. The following describes how decisions within each competency are scored.

Referral

Questions are rated based on strength of decision-making skills when gathering referral information. Users must be selective in the questions chosen. If questions are repeated or are redundant, points may be deducted (redundancy is not the best use of the user's, client's, or caregiver's time). Some questions may be irrelevant and score 0 points; other questions may be inappropriate for the case and will score negative points.

Manual

Points are awarded for collaborating with the manual and for selecting relevant questions. Points are deducted for selecting inappropriate questions.

Screening/Assessments

Points are awarded for administering appropriate screening/assessments.

In screening/assessments, users are deducted points for:

- Selecting inappropriate screening or assessment activity based on the case information
- Selecting an unnecessary screening or assessment activity
- Selecting an age-inappropriate screening or assessment activity
- Selecting two or more screening or assessment activities that measure the same outcome

Screening Results

Points are awarded for selecting the appropriate outcome. Points are deducted for each inappropriate selection.

Summary

Points are awarded for selecting the most appropriate summary statement regarding the progress of the client.

Areas Not Scored

As mentioned previously, the final competency score and rating are calculated based solely on the decisions of the user. Use of the Clipboard is **not** scored. This is an optional feature that assists users with the treatment process. Graded assessment results are reported separately on the results page and within the final exported report, but are **not** included in the calculation of the final competency score or competency rating. The time it takes to complete a case is measured but is also **not** scored. The timer indicates total simulation play time. This can be defined as the time spent in the simulation, which helps users monitor their efficiency in making case decisions. Note that the estimated time it takes to complete specific treatment activities is included in the time spent in the simulation.

The SimuCase Competency Rating

A user's overall competency in screening a particular client is rated and indicated on the Results screen. The Results screen displays a user's overall performance in each of these areas:

- Referral
- Manual
- Screenings/Assessments
- Assessment Results
- Summary

If a user earns a 90% or higher overall score, the Mastering competency rating is earned. If a user earns an overall score of 70-89% a Developing competency rating is earned. If a user fails to earn at least 70% an Emerging competency rating is earned.

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