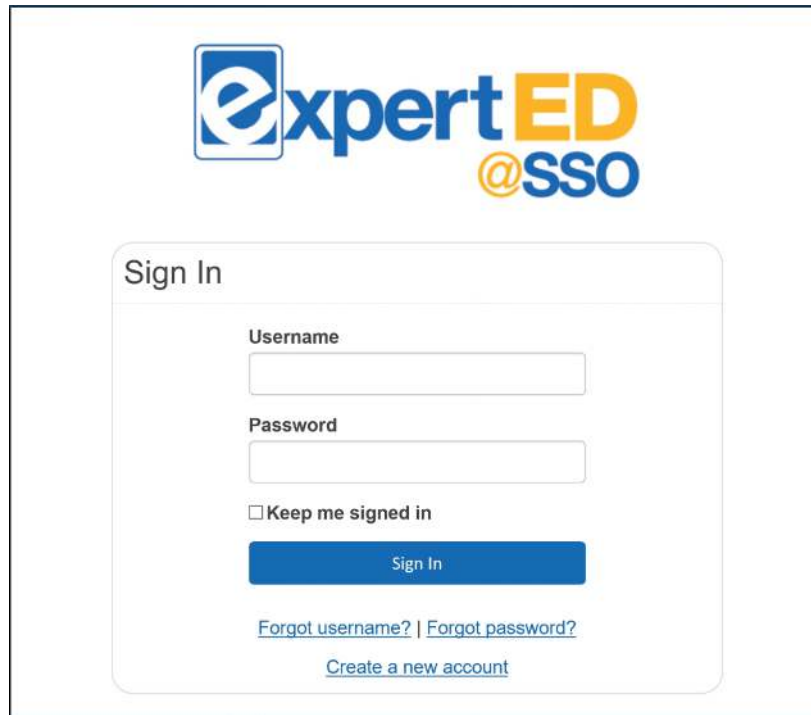


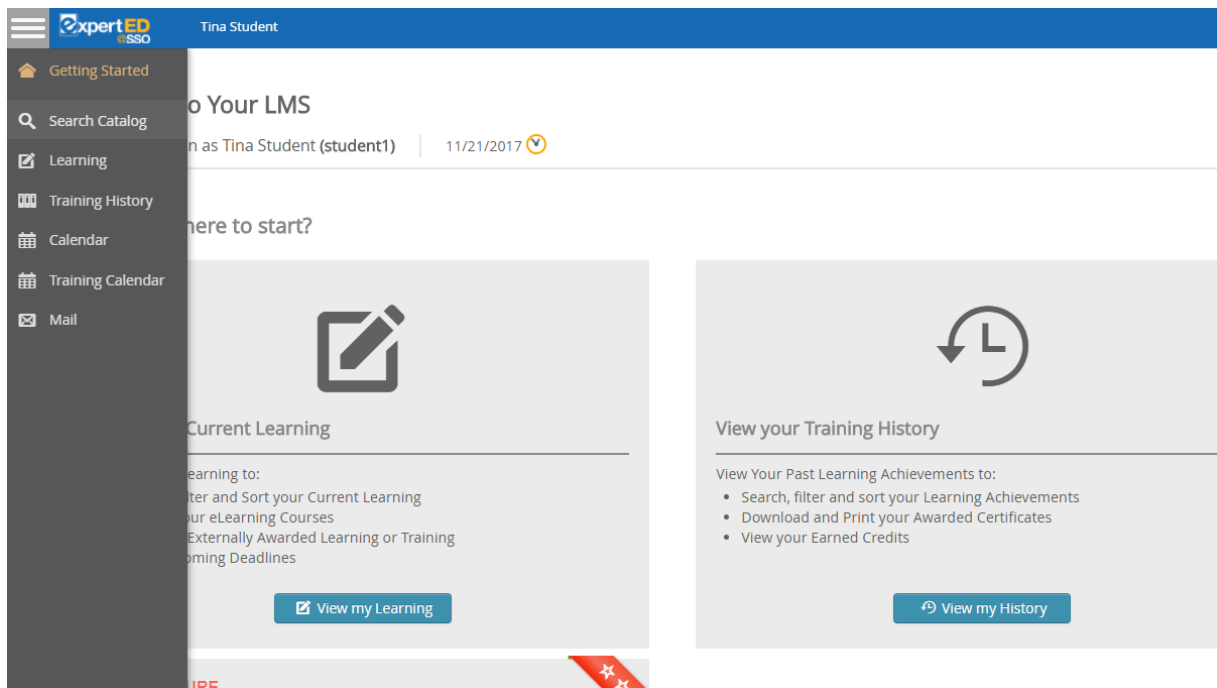
Completing a Journal Activity in expertEd@SSO

1. Go to [expertED@SSO](#). Select **Sign in** located in the upper right-hand corner of the expertED home page and log in to with your username and password.



The screenshot shows the expertED@SSO login interface. At the top is the logo with 'expert' in blue and 'ED@SSO' in orange and blue. Below it is a 'Sign In' box containing a 'Username' field, a 'Password' field, a checkbox for 'Keep me signed in', a blue 'Sign In' button, and links for 'Forgot username?', 'Forgot password?', and 'Create a new account'.

2. Once you are brought to the home screen of the LMS, select the magnifying glass icon located in the vertical toolbar on the left side of the screen to search catalog.



The screenshot displays the LMS home screen for 'Tina Student'. A dark vertical toolbar on the left contains icons for 'Getting Started', 'Search Catalog' (magnifying glass), 'Learning', 'Training History', 'Calendar', 'Training Calendar', and 'Mail'. The main content area has a header with the user's name and a date. Below the header, there are two large cards: 'Current Learning' with a pencil icon and a 'View my Learning' button, and 'View your Training History' with a clock icon and a 'View my History' button. A red starburst graphic is visible in the bottom right corner.

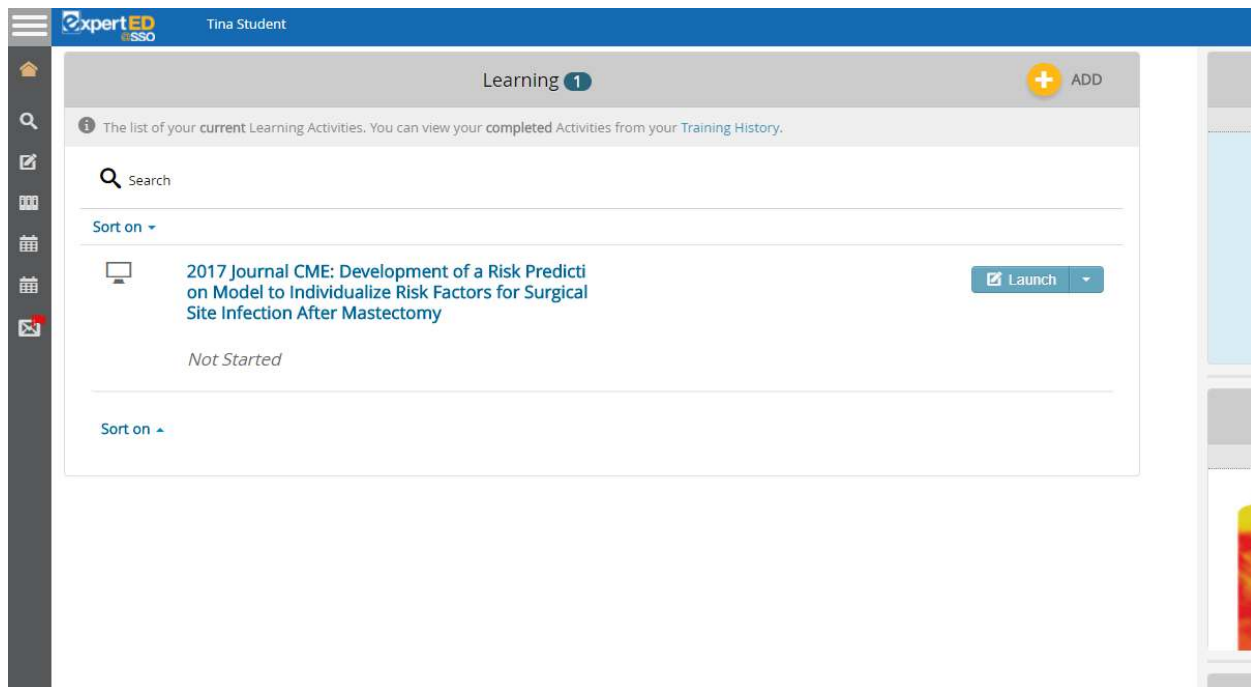
3. Select the Online Learning category. You will then see a list of all online activities available. You may select the Journal CME Activity you are looking for from the complete list or filter the activities by selecting the disease site it falls under.

The screenshot shows the ExpertED 360 Online Learning catalog. On the left, a sidebar lists various disease sites under 'Browse Online Learning', including Breast, Colorectal, Endocrine/Head and Neck, Gastrointestinal, Hepato-pancreato-biliary, Melanoma, Other Surgical Oncology, and Sarcoma. The main content area is titled 'Online Learning' and features a search bar and a 'PURCHASE CREDIT' button. Below this, a list of activities is displayed. The first activity is 'SOSAP 2.0' for \$0.00, with an 'ENROLL' button. The second activity is '2017 Journal CME: Focused Versus Bilateral Parathyroid Exploration for Primary Hyperparathyroidism: A Systematic Review and Meta-analysis' for \$1.50, with an 'ADD TO CART' button. The third activity is '2017 Journal CME: The Effect of Prophylactic Central Neck Dissection on Locoregional Recurrence in Papillary Thyroid Cancer after Total Thyroidectomy: A Systematic Review and Meta-analysis' for \$1.50, also with an 'ADD TO CART' button. Each activity includes a brief description and a 'View Credits Awarded' button.

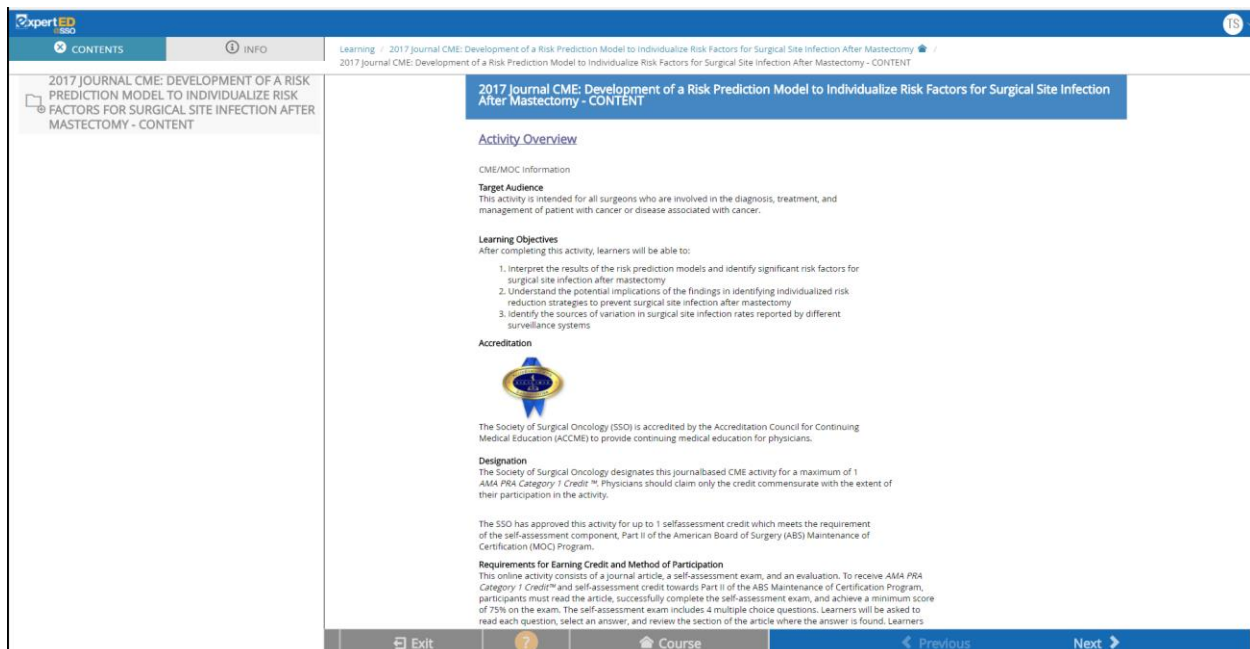
4. Once you find the Journal activity you are looking for select the **ENROLL** button. (You may select the title of the activity prior to enrolling to view more information about the activity.)

This screenshot shows a detailed view of a specific activity: '2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy'. The activity is listed for \$0.00 and has an 'ENROLL' button. Below the title, a brief description states: 'This Annals of Surgical Oncology Journal CME/MOC activity consists of a journal article, a self-assessment exam, and an evaluation. This activity is intended for surgeons who are involved in the di...'. There is also a 'View Credits Awarded' button showing 2 credits. At the bottom, there are buttons for 'Online Learning' and 'Breast Disease Site'.

5. Once you enroll in the activity you will be brought to your Learning page where you will see the activity listed. To begin the activity, select the **Launch** button next to the activity listing.



6. Once you launch the activity you will be brought to the front matter showing the Activity Overview. Select **Next** in the bottom right corner of the screen.



7. The next screen gives instructions for accessing the article. You may click **“this Link”** if you are a subscriber to the Annals of Surgical Oncology or you may select the link to the article below. The article will open in a new window.

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Learning / 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy / 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - CONTENT / Journal Article: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy

Journal Article: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy

After reviewing the Activity Overview, you may access the article as a PDF by clicking on the title below, or if you are a subscriber to the Annals of Surgical Oncology, by following this link. Note that you will then need to complete the post test and evaluation to receive your CME/MOC certificate or certificate of completion.

Please view the article by selecting the link below:

Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - Article.pdf

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Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - Article.pdf

Ann Surg Oncol
DOI 10.1245/s10434-015-5083-1

ORIGINAL ARTICLE - BREAST ONCOLOGY

Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy

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ABSTRACT
Background. Little data are available regarding individual patients' risk of surgical site infection (SSI) following mastectomy with or without immediate reconstruction. Our objective was to develop a risk prediction model for mastectomy-related SSI.
Methods. Using commercial claims data, we established a cohort of women <65 years of age who underwent a mastectomy from 1 January 2004–31 December 2011. International Classification of Diseases, Ninth Revision, Clinical Modification diagnosis codes were used to identify SSI within 180 days after surgery. SSI risk factors were determined with multivariable logistic regression using derivation data from 2004–2008 and validated with 2009–2011 data using discrimination and calibration measures.
Results. In the derivation cohort, 995 SSIs were identified in 7607 (7.8 %) women, and 396 SSIs were coded in 4366 (9.1 %) women in the validation cohort. Independent risk factors for SSI included rural residence, rheumatologic disease, depression, diabetes, hypertension, liver disease, obesity, pre-existing pneumonia or urinary tract infection, tobacco use disorder, smoking-related diseases, bilateral mastectomy, and immediate reconstruction. Receipt of home healthcare was associated with lower risk. The model performed equally in the validation cohort per discrimination (C-statistics 0.637 and 0.649) and calibration (Hosmer-Lemeshow $p = 0.091$ and 0.462 for derivation and validation, respectively). Three risk strata were created based on predicted SSI risk, which demonstrated good correlation with the proportion of observed infections in the strata.
Conclusions. We developed and internally validated an SSI risk prediction model that can be used to counsel women with regard to their individual risk of SSI post-mastectomy. Immediate reconstruction, diabetes, and smoking-related diseases were important risk factors for SSI in this non-elderly population of women undergoing mastectomy.

The most common healthcare-associated infections among hospitalized patients are surgical site infections (SSIs), which result in significant morbidity and mortality, prolong hospital stays, and increase healthcare costs.^{1,2} According to the National Healthcare Safety Network (NHSN), SSI incidence is expected to be low (1–2 %) after clean procedures such as breast operations,³ but breast SSI rates reported in the literature are generally higher. Several studies have examined independent risk factors for SSI after various breast operations, including mastectomy and immediate or delayed breast reconstruction. Consistent conclusions have been drawn from these studies, including that

Electronic supplementary material The online version of this article (doi:10.1245/s10434-015-5083-1) contains supplementary material, which is available to authorized users.

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- Once you have finished viewing the article go back to the browser tab where you are logged into expertEd@SSO. Select **Next** at the bottom of the screen.

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Journal Article: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy

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Please view the article by selecting the link below:

Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - Article.pdf

9. You will be brought to the POST TEST screen. Select the **Start** button to begin the exam.

INFORMATION	
TEST	2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - Post Test
MAX ATTEMPTS	unlimited
WILL BE AUTO CORRECTED	Yes

10. Select an answer for all of the questions and click **Submit Test** at the bottom of the screen to submit your answers.

1 of 4 *

We used a c-statistic to measure how well the surgical site infection risk prediction model discriminates between those who had a surgical site infection and those who did not. Our model had a c-statistic of 0.657 in the derivation cohort and 0.649 in the validation cohort, both less than optimal values (with 0.5 equivalent to a coin flip and 1.0 equal to perfect discrimination). The risk prediction model could be improved in future by incorporating more precise information about:

- ☐ type of reconstruction
- ☐ body mass index
- ☐ hypertension
- ☐ depression *

For 1 points

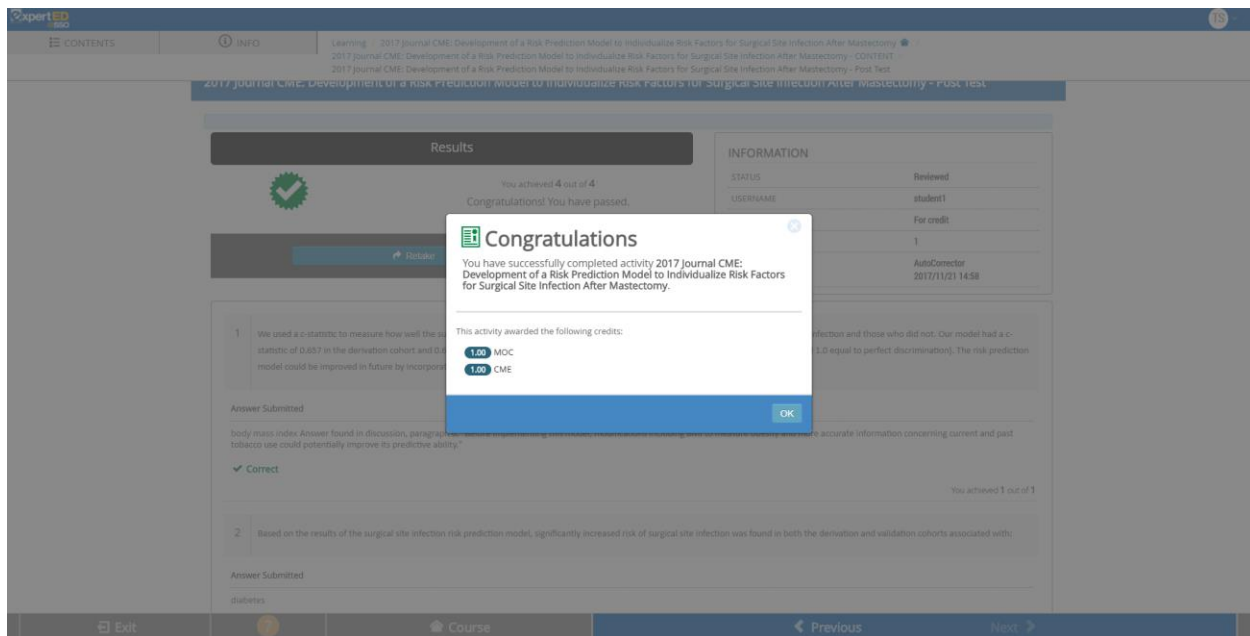
2 of 4 *

Based on the results of the surgical site infection risk prediction model, significantly increased risk of surgical site infection was found in both the derivation and validation cohorts associated with:

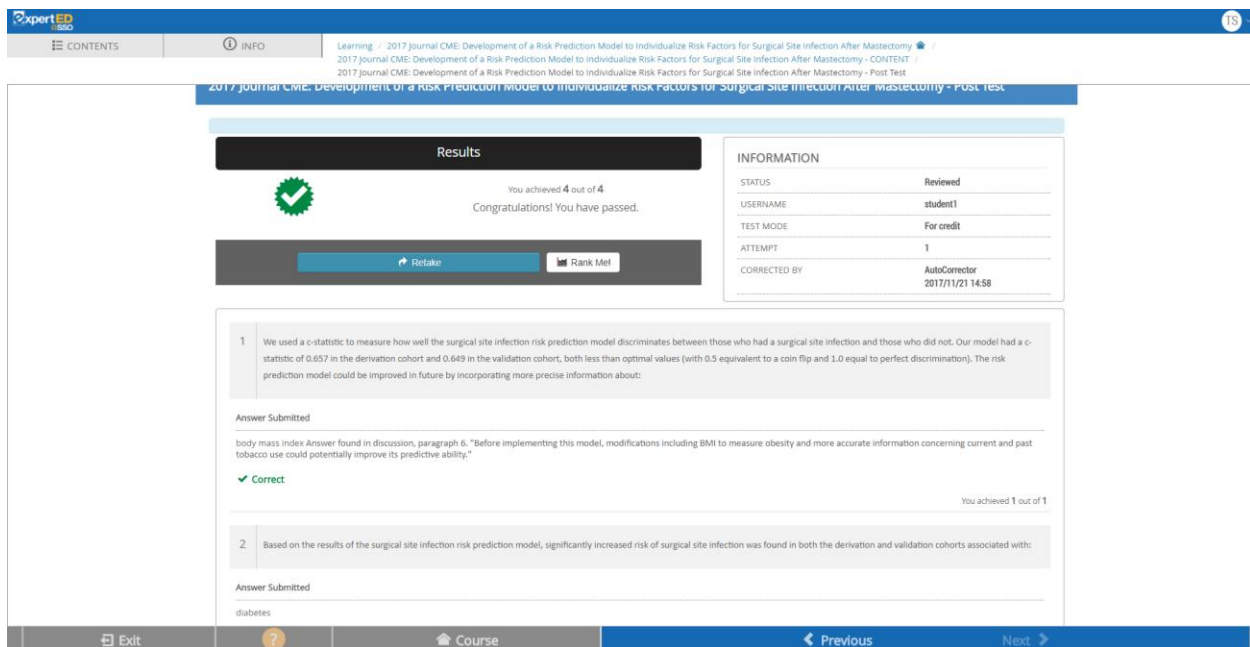
- ☐ diabetes
- ☐ liver disease
- ☐ rheumatologic disease
- ☐ previous pneumonia/urinary tract infection *

Submit Test

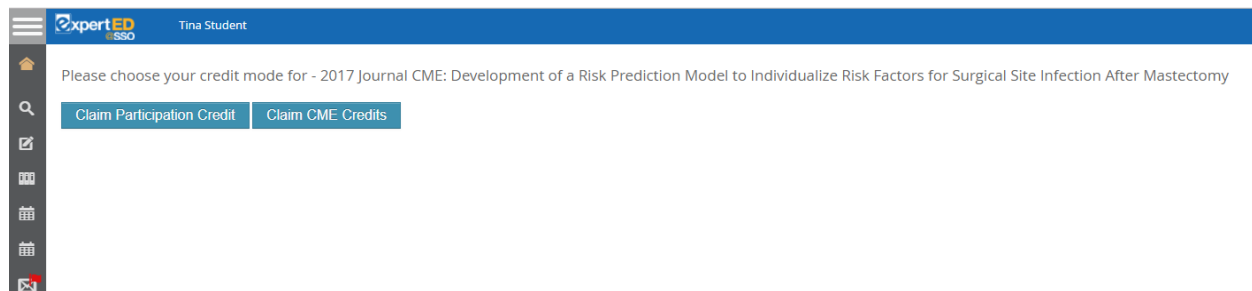
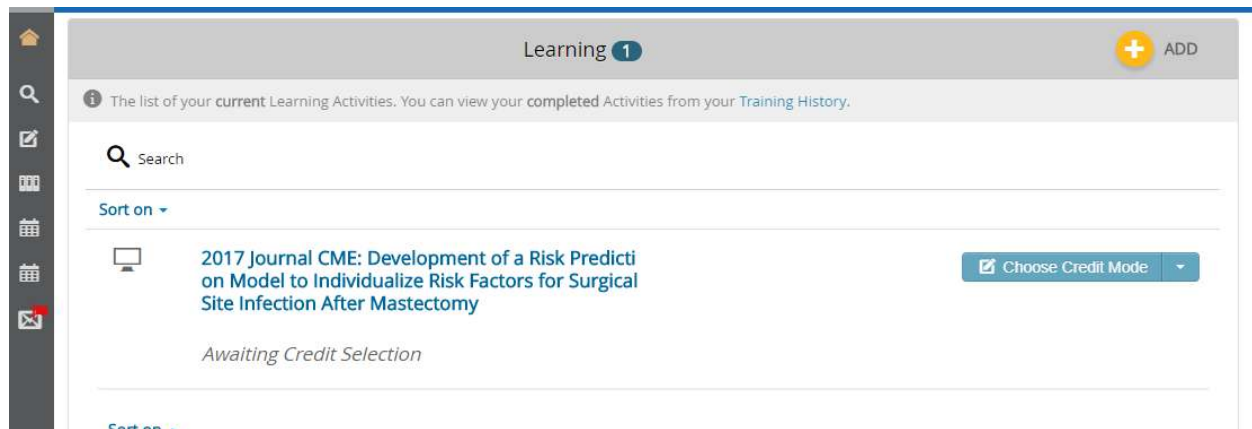
11. Once you submit your answers, if you received a score of at least 75% you will receive a message informing you that you successfully completed the activity. (If you do not receive 75% or higher you may select the retake button and repeat the exam.) Select **OK**.



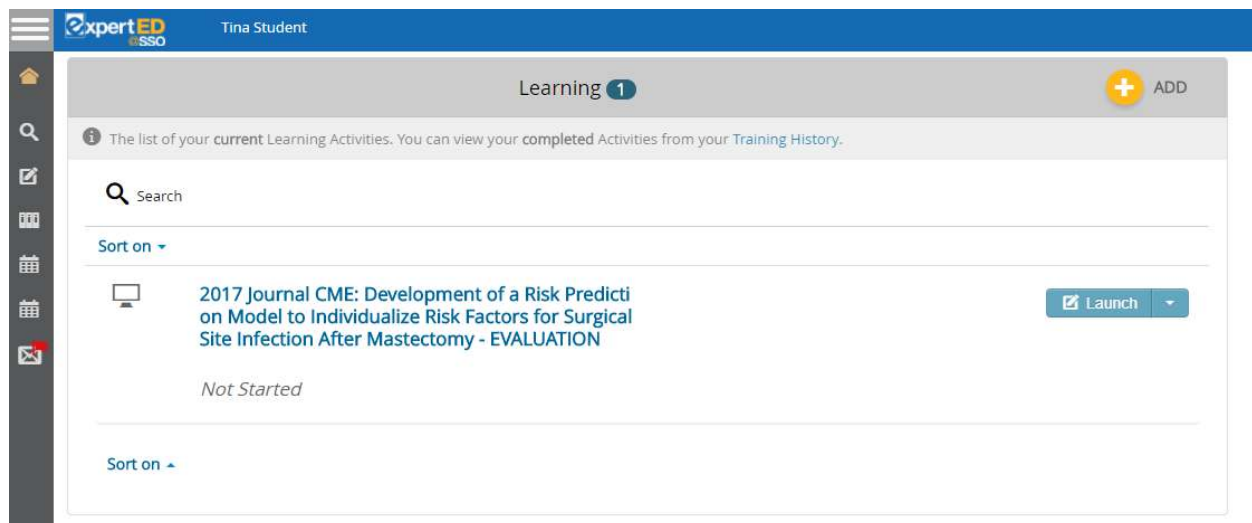
12. You will then be able to view your results. When you are finished viewing the results, select **Exit** at the bottom of the screen.



13. You will be brought back to your learning page. There you will see the journal activity listed with “Awaiting Credit Selection” underneath it. Select the **Choose Credit Mode** Button and select **Claim CME Credits**.



14. You will be brought back to your Learning page where the specific Journal CME Activity EVALUATION will be listed. Select the **Launch** button to complete the evaluation.



15. This will bring you to the introduction page of the Evaluation. Select **Next** at the bottom of the screen.

ExpertED 150

CONTENTS INFO

Learning / 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION / Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION

JOURNAL CME: DEVELOPMENT OF A RISK PREDICTION MODEL TO INDIVIDUALIZE RISK FACTORS FOR SURGICAL SITE INFECTION AFTER MASTECTOMY - EVALUATION

Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION

You must complete this evaluation to earn your credit or participation certificate.

Exit ? Course Previous Next

16. Select the **Start** button to begin the evaluation.

Learning / 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION / Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION / Journal CME - ANN 71 Evaluation

Journal CME - ANN 71 Evaluation

You must complete the following evaluation to earn your credit or participation certificate.

Start

17. Complete the evaluation questions and select **Submit Test** to submit your responses. Once submitted a Congratulations message will pop up informing you that you have completed the evaluation. Click **OK**.

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CONTENTS INFO

Learning / 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION

Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION

Journal CME - ANN 71 Evaluation

Take me to Go To...

1 of 13 Overall Evaluation of Importance of Activity (Session)

Very important Important Somewhat important Not important

2 of 13 Please rate the extent to which this activity increased your knowledge of the topic discussed.

Increased my knowledge Greatly increased my knowledge

Somewhat increased my knowledge Did not increase my knowledge

3 of 13 If you responded "Did not increase my knowledge" please provide an explanation:

4 of 13 Did the activity meet its stated learning objectives?

You are currently taking a test. Click to navigate Course Contents instead.

Submit Test

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CONTENTS INFO

Learning / 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION

Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION

Journal CME - ANN 71 Evaluation

Results

You achieved 0 out of 0
Congratulations! You have passed.

Rank Me!

Congratulations

You have successfully completed activity 2017 Journal CME: Development of a Risk Prediction Model to Individualize Risk Factors for Surgical Site Infection After Mastectomy - EVALUATION.

OK

Important

2 Please rate the extent to which this activity increased your knowledge of the topic discussed.

Answer Submitted

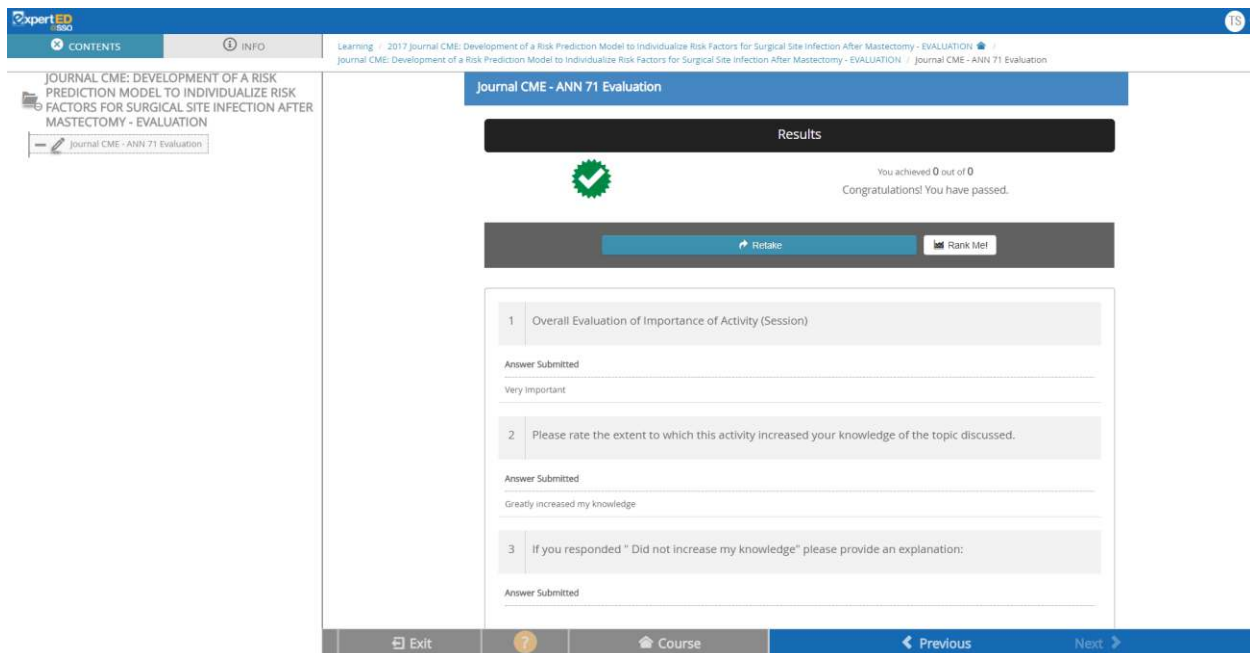
Increased my knowledge

3 If you responded "Did not increase my knowledge" please provide an explanation:

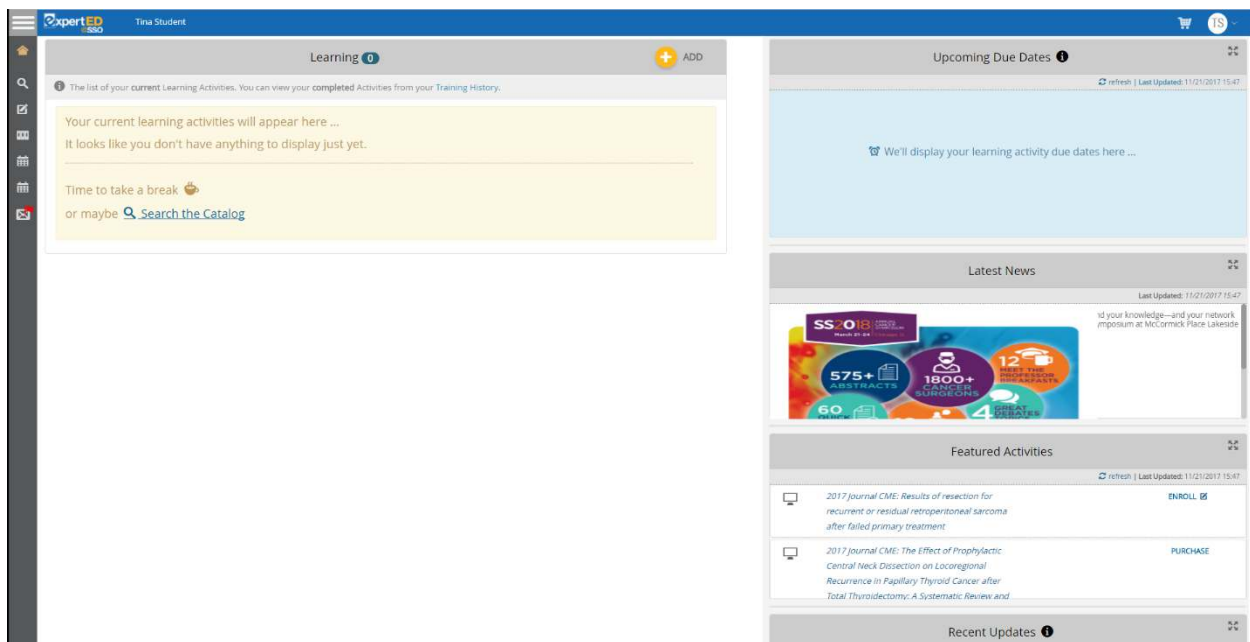
Answer Submitted

Exit Course Previous Next

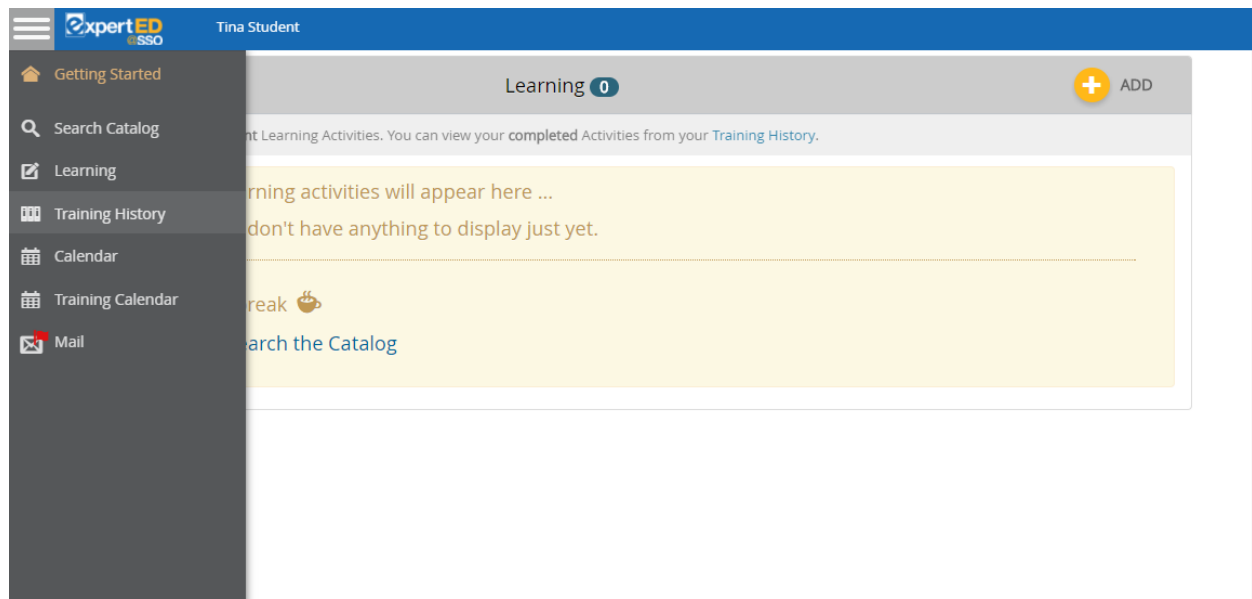
18. You will be brought to the results page. Select Exit at the bottom of the screen.



19. You will be brought back to your Learning page where you should no longer see the Journal activity listed.



20. Select the **Training History** icon located on the vertical toolbar underneath Learning.



21. You will be brought to your Training History page which lists all of your completed activities. You will see the Journal CME Activity you completed. Select the View Certificate Button to view and download your certificate of credit.

