



# Neonatal Monthly Webinar

**VON NAS Universal Training**

**May 14, 2019**

**2:00-3:00pm**



# Neonatal Initiative Participation



- 44 hospitals
- Covering 66% of births in Georgia

Level of Care	# of NAS Hospitals	% Participation
Level I	11 of 23	48%
Level II	13 of 22	59%
Level III (not including RPCs)	14 of 24	58%
RPC	6 of 6	100%

# Neonatal Initiative Participation



Perinatal Region	# of NAS Hospitals	% of Region
Albany	4 of 7	57%
Atlanta	20 of 31	65%
Augusta	2 of 6	33%
Columbus	4 of 9	44%
Macon	9 of 11	82%
Savannah	5 of 11	45%

\*Does not include stand-alone birth centers/military facilities

# A Universal Training Solution Aimed at Improving Outcomes for Infants and Families Affected by NAS



# VON Universal Training Program for NAS

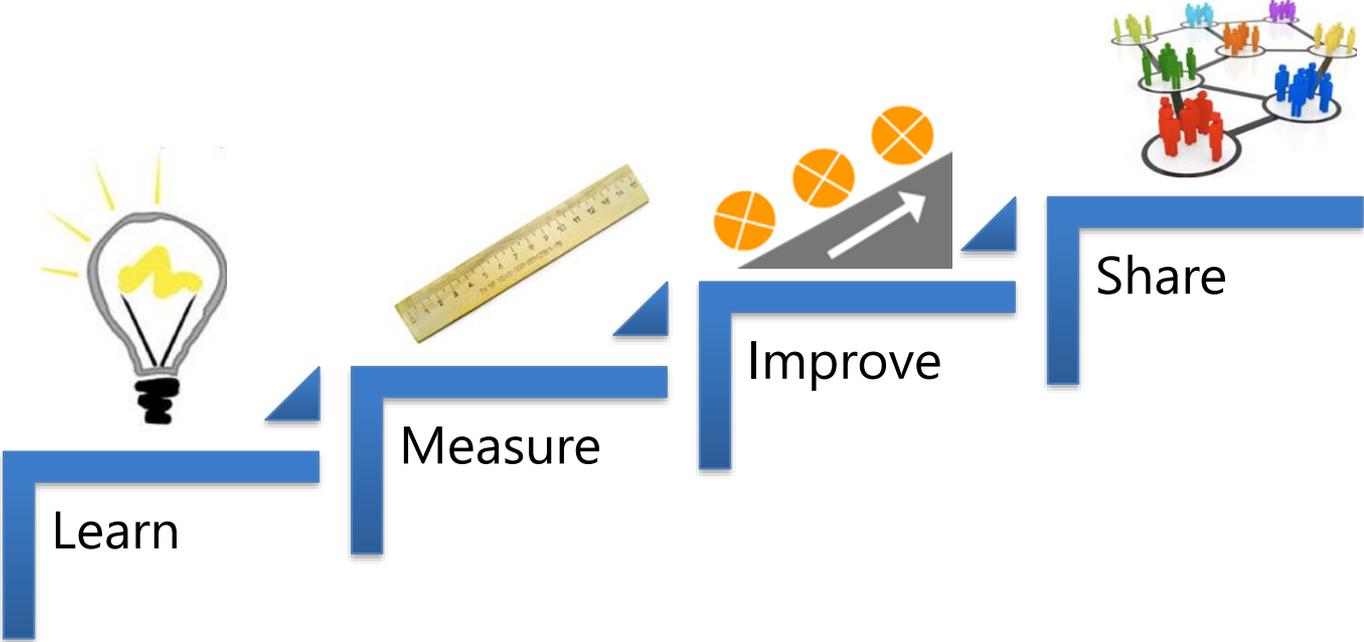


## VON NAS Universal Training

John McGregor, EdD

Learning Systems Manager  
Vermont Oxford Network

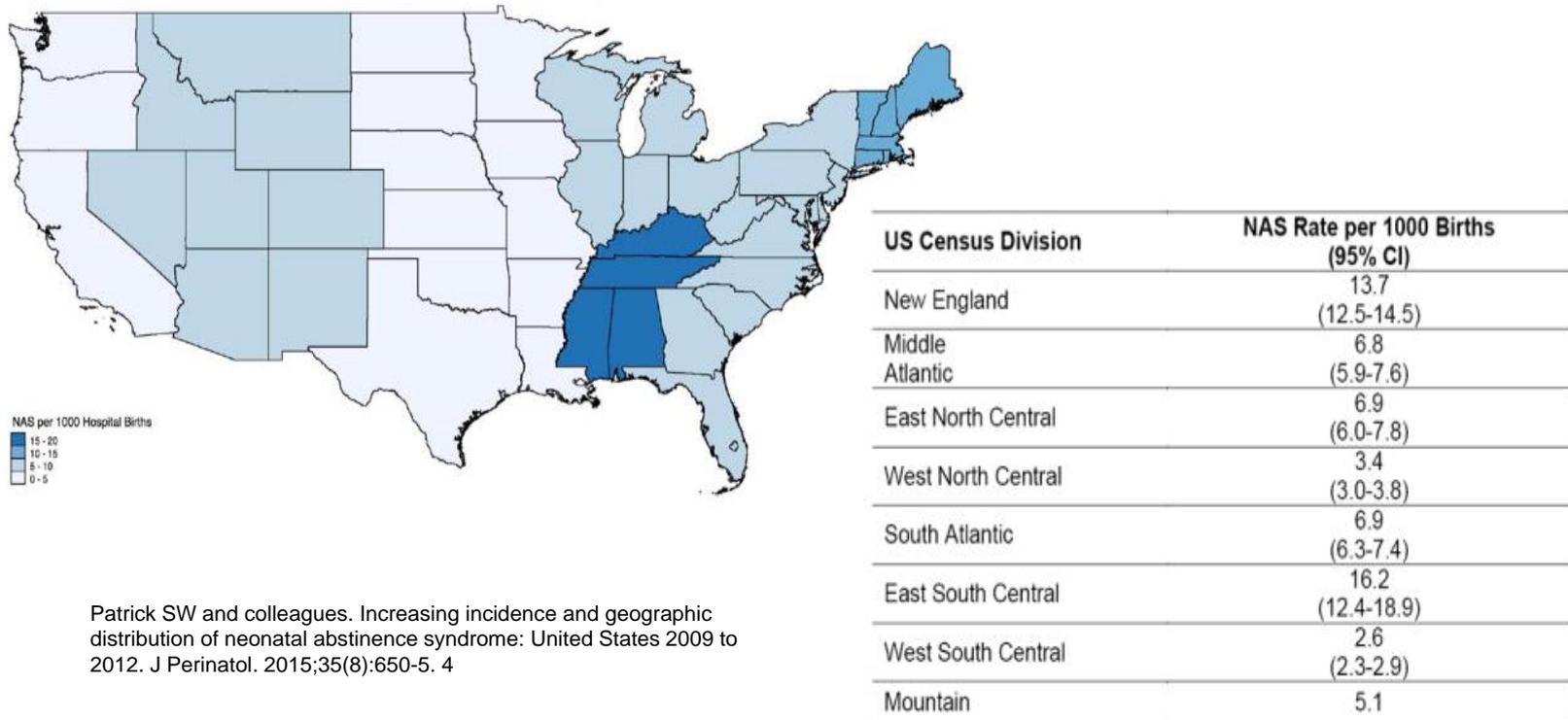
# Team Aim for Measurable Improvement





# NAS per 100 Hospital Births

Neonatal Abstinence Syndrome per 1000 Hospital Births by US Census Division, 2012



Patrick SW and colleagues. Increasing incidence and geographic distribution of neonatal abstinence syndrome: United States 2009 to 2012. J Perinatol. 2015;35(8):650-5. 4

# Why Collaboration and Universal Training?

## **AIM 1**

Engage centers in a multi-center QI collaborative focused on improving the quality, safety and value of care for substance exposed infants and families.

## **AIM 2**

Promote the rapid cycle adoption of the AAP NAS guidelines into clinical practice by standardizing NAS-relevant policies and practices.

# From AAP Guidelines to Action

American Academy  
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN™

Guidance for the Clinician in  
Rendering Pediatric Care

CLINICAL REPORT

Neonatal Drug Withdrawal



# From AAP Guidelines to Action

Even when we have good quality evidence and consensus about best practices . . .

It takes ~15 years for the evidence to reach 50% of the patients who would benefit!

# From AAP Guidelines to Action

~ 50% of Infants With NAS Are Cared for in Community Hospital Settings With No NICU . . .



Many will not yet have comprehensive treatment programs!

# Scientific Steering Committee & Faculty



Ronald Abrahams



Erica Asselin



Jennifer Batza



Madge Buus-Frank



Krisanna Deppen



Linda Franck



Munish Gupta



Sarah Heil



Elisabeth Holland



Jeffrey Horbar



Mark Hudak



Linda Helsley



Lauren Jansson



Karol Kaltenbach



Walter Kraft



Lenora Marcellus



Matthew Niedner



Stephen Patrick



Nicole Pendenza



Alan Picarillo



Robert Schumacher



Roger Soll



Amy Sommer



Martha Velez



Bonny Whalen



John Zupancic

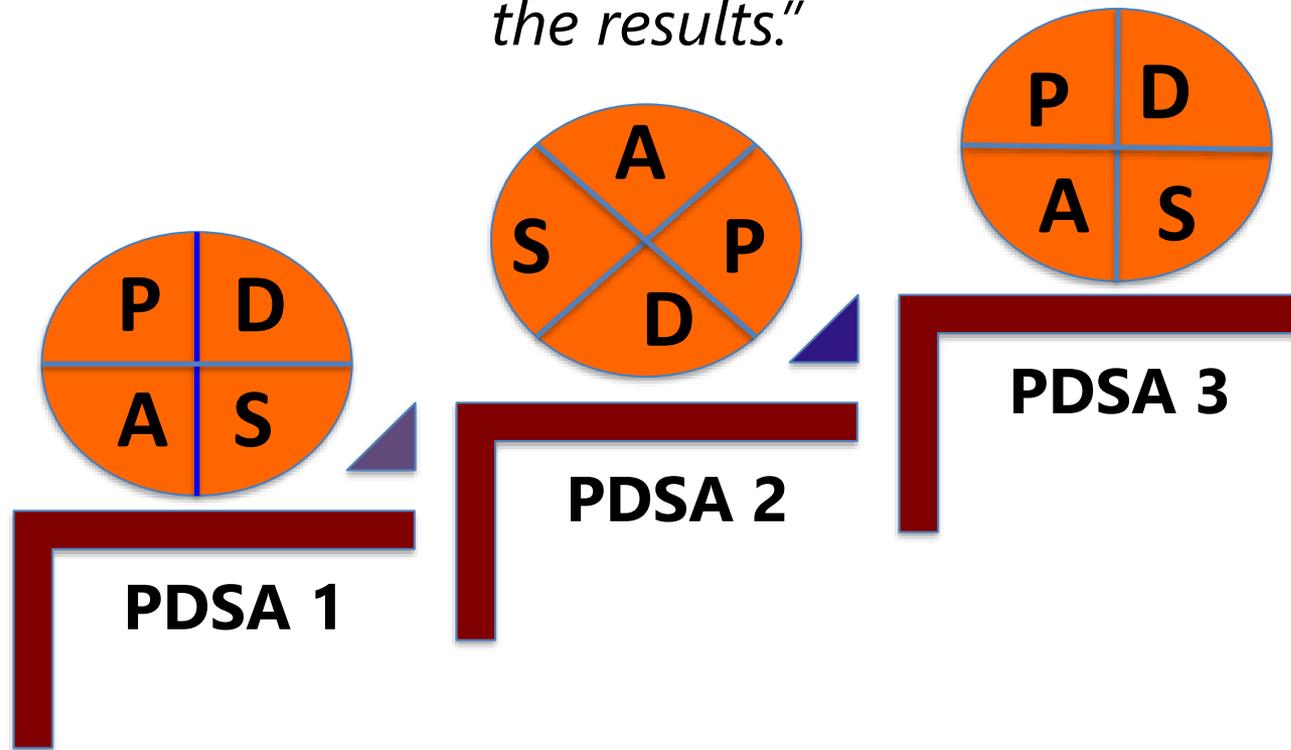


Denise Zayack



# Small Tests of Change Potentially Better Practices (PBPs)

*“We will not know if they are truly better until we adapt them to our **local context**, implement them, and measure the results.”*



# Universal Training Overview

**May 14<sup>th</sup>** – VON NAS Universal Training Webinar

**June 1<sup>st</sup>** – Getting Started

- Participation Agreements completed and returned by centers participating in July VON Day Audit

**June-Ongoing** - Enrollment into VON Online Learning

**July 9<sup>th</sup>–13<sup>th</sup>** - VON Day Audit #1

- Information and resources available at <http://public.vtoxford.org/nas-von-days/>

**July 2019-July 2021** – Ongoing Implementation

- Users complete lessons
- Monthly reporting communicated
- VON Champions engage/motivate users to complete lessons

# Universal Training Overview

- Users will continue to complete lessons
- Monthly reporting:
  - Lesson completion for users at each center
  - Report centers that achieved centers of excellence
  - Highlight use and progress
  - Motivation ideas
- VON Day Audit #2 occurs in July 2021
- Centers of Excellence are identified at completion of implementation

# VON Champion Holds the “Key” to the Online Classroom



Who is the ideal VON Champion?

- Someone involved in day-to-day practice with core team
- Someone who regularly interacts with EMR
- Lead role or administrator

# VON Champion Holds the “Key” to the Online Classroom



1. Identify users to be enrolled
2. Become a Super-User on the LMS
3. Motivate and keep users engaged

# Center of Excellence

## Optional for Centers:

1. VON Champions will identify the core team on the enrollment spreadsheet (minimum of 25 users\*).
2. Each month, we will send a statewide use report that shows the progress for each center's core team.
3. Once a center's core team completes all 18 NAS lessons, they will become a VON Center of Excellence
4. When 85% of all Core Teams complete the NAS lessons, the state will be designated as a VON State of Excellence

*\*if a center enrollment is less than 25, all core team members must complete the lessons.*

# How to Log On to the VON Learning System

Users can then log on to our Learning System

1. Go to...

[vtoxford.org/learning](https://vtoxford.org/learning)

2. Click on...

[Login to edX](#) :

# How to Set Your VON Username and Password

To log onto our Online Learning site, you will need to set your VON password.

1. Go to...

[vtoxford.org/LMS](https://vtoxford.org/LMS)

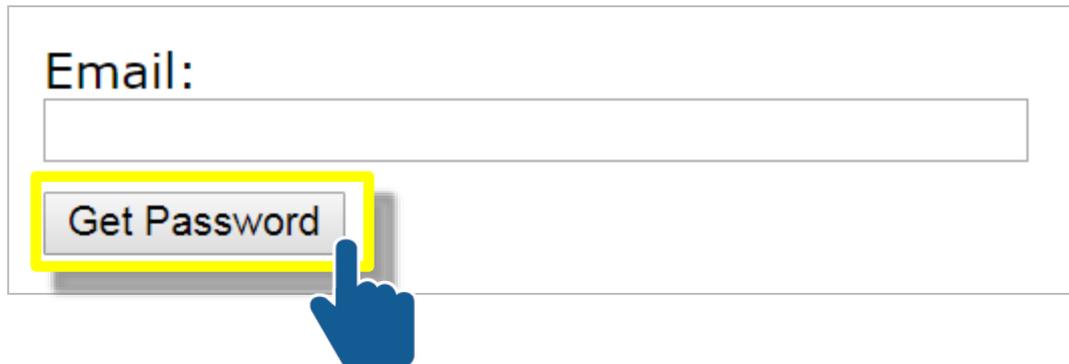
2. Click on...

[Forgot your password?](#)

# How to Set Your VON Username and Password

Your username is the email your VON Champion submitted on the Enrollment Spreadsheet

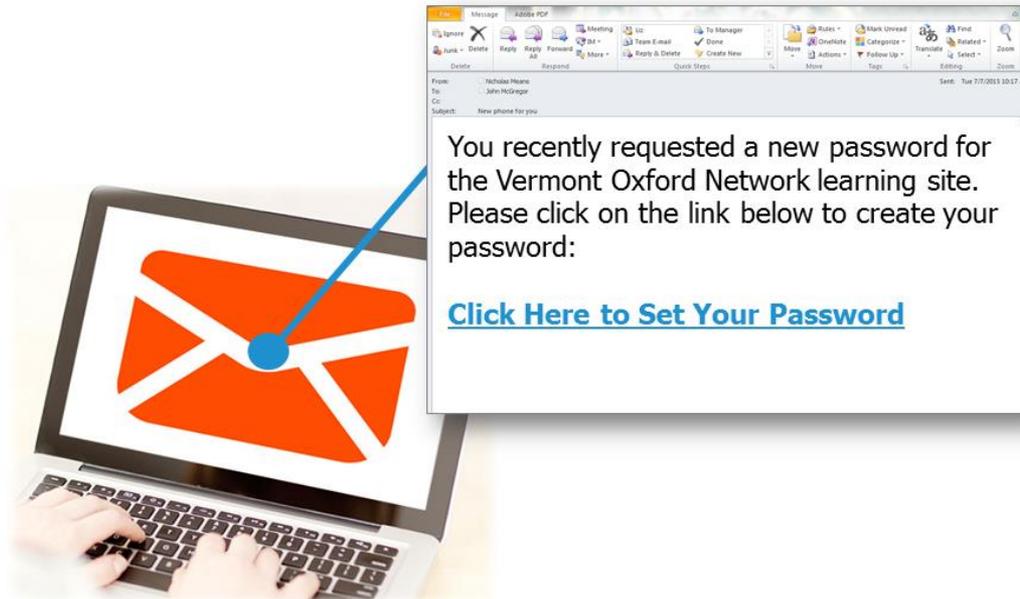
3. Enter your email and click *Get Password*



Email:

# How to Set Your VON Username and Password

4. Users will receive an automatic email that includes a link and instructions to set their password



# How to Log On to the VON Learning System

Users can then log on to our Learning System

1. Go to...

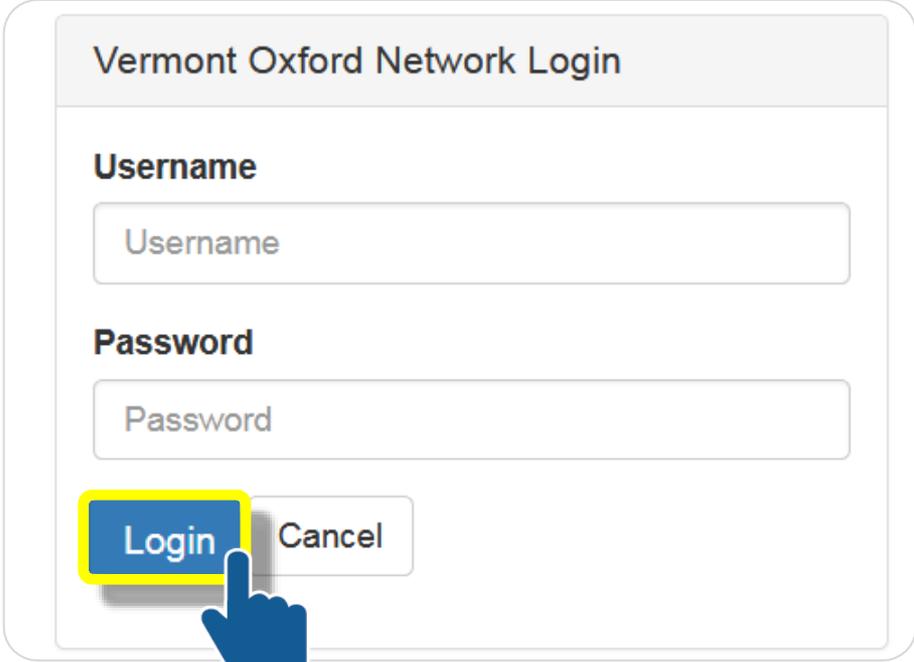
[vtoxford.org/learning](https://vtoxford.org/learning)

2. Click on...

[Login to edX](#) :

# How to Log On to the VON Learning System

3. Enter your VON username and password and click *Login*



The image shows a login form titled "Vermont Oxford Network Login". It contains two input fields: "Username" and "Password". Below the fields are two buttons: "Login" and "Cancel". A blue hand icon is pointing to the "Login" button, which is highlighted with a yellow border.

Vermont Oxford Network Login

**Username**

Username

**Password**

Password

Login Cancel

# How to Access the VON NAS Lessons

4. Under the *Universal Training Program for NAS*, click *Go to Course Homepage*



Universal Training Program for NAS  
Contains 19 Micro-Lessons.

[Go to Course Homepage](#)



# How to Access the VON NAS Lessons

5. Users will see a list of the NAS lessons. Click *Go to Micro-Lesson* to access a lesson.



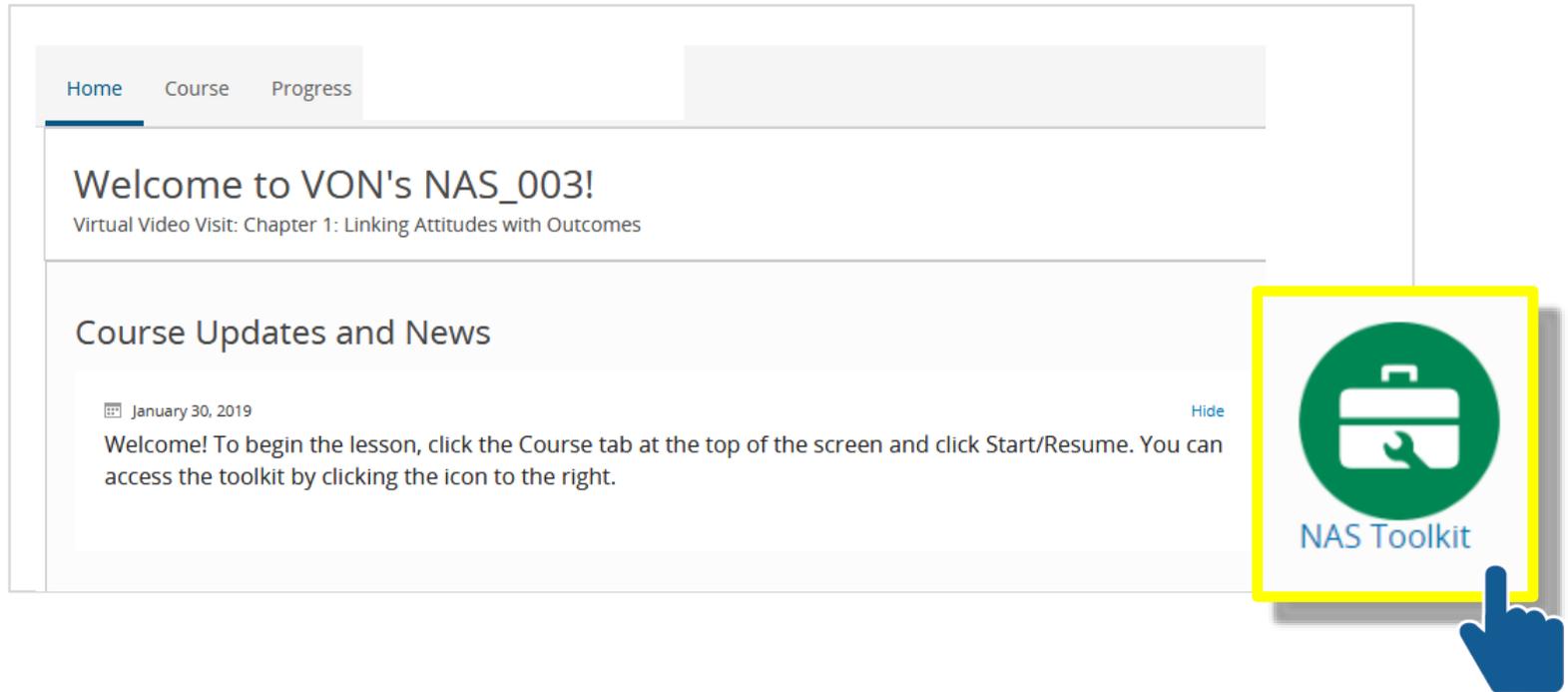
Virtual Video Visit: Chapter 1:  
Linking Attitudes with  
Outcomes

[Go to Micro-Lesson](#)



# Access NAS Toolkit

## 6. Click *Toolkit* to access the Toolkit



The screenshot shows a web interface for a course. At the top, there are navigation tabs: 'Home' (selected), 'Course', and 'Progress'. Below the tabs, the main content area displays a welcome message: 'Welcome to VON's NAS\_003!' followed by 'Virtual Video Visit: Chapter 1: Linking Attitudes with Outcomes'. Underneath, there is a section titled 'Course Updates and News' with a date 'January 30, 2019' and a 'Hide' link. The main text in this section reads: 'Welcome! To begin the lesson, click the Course tab at the top of the screen and click Start/Resume. You can access the toolkit by clicking the icon to the right.' To the right of this text, a yellow-bordered box highlights a green circular icon containing a white briefcase with a hand cursor. Below the icon, the text 'NAS Toolkit' is displayed. A blue hand cursor icon is positioned at the bottom right of the yellow box, pointing towards the 'NAS Toolkit' text.

# Access NAS Toolkit

## POTENTIALLY BETTER PRACTICES (PBP<sub>s</sub>)

The suggested PBP<sub>s</sub> are focused on developing and implementing a standardized process for the identification, evaluation, treatment, and discharge management of an infant with neonatal abstinence syndrome:

<b>PBP 1</b>	Develop and implement a standardized process for the identification, evaluation, treatment and discharge of infants with NAS.
<b>PBP 2</b>	Develop and implement a standardized process for measuring and reporting rates of neonatal abstinence syndrome and drug exposure.
<b>PBP 3</b>	Create a culture of compassion, understanding, and healing for the mother infant dyad affected by the problem of neonatal abstinence syndrome.
<b>PBP 4</b>	Provide care for infants and families in sites that promote parental engagement in care and avoid separation of mothers and infants.
<b>PBP 5</b>	Engage mothers and family members in providing non-pharmacologic interventions as "first-line" therapy for all substance-exposed infants.
<b>PBP 6</b>	Develop clear eligibility criteria for breastfeeding and actively promote and support breastfeeding by eligible mothers.
<b>PBP 7</b>	Develop a standardized process to ensure safe discharge into the community.
<b>PBP 8</b>	Provide interdisciplinary universal education and training to all caregivers who may encounter substance-exposed infants and families.

# Access NAS Toolkit

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# Access NAS Toolkit

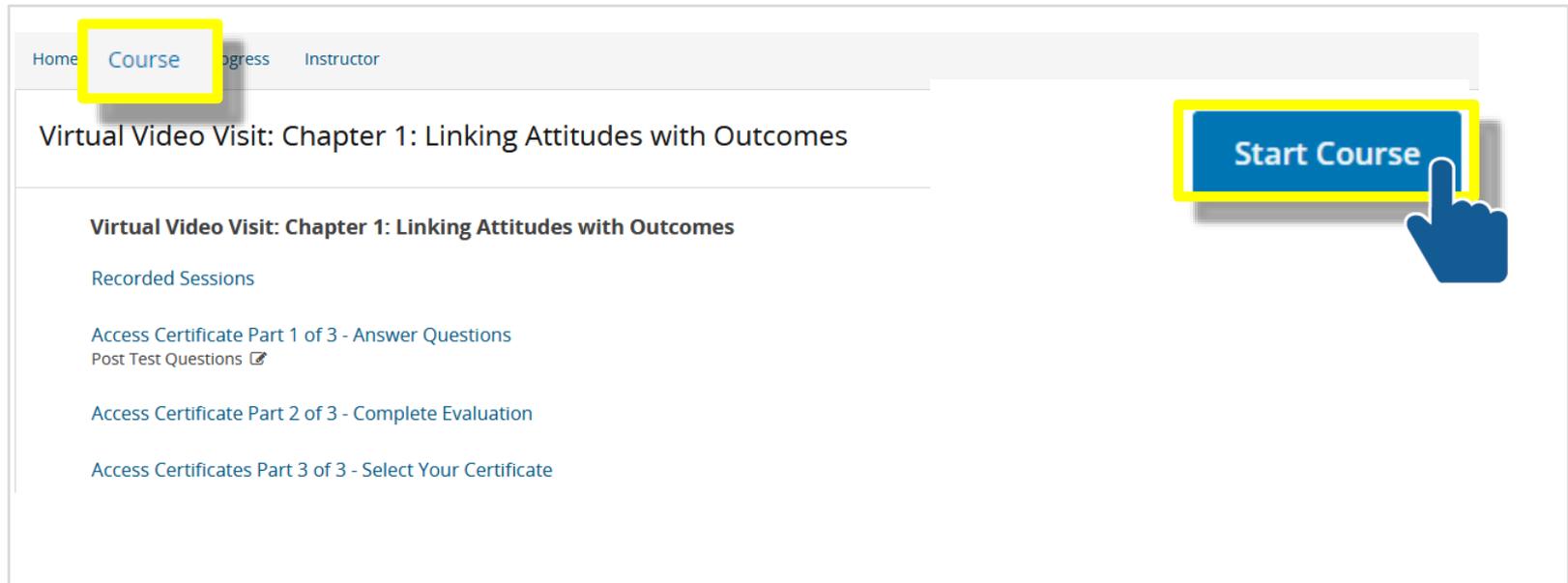
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# How to Access the NAS Lessons

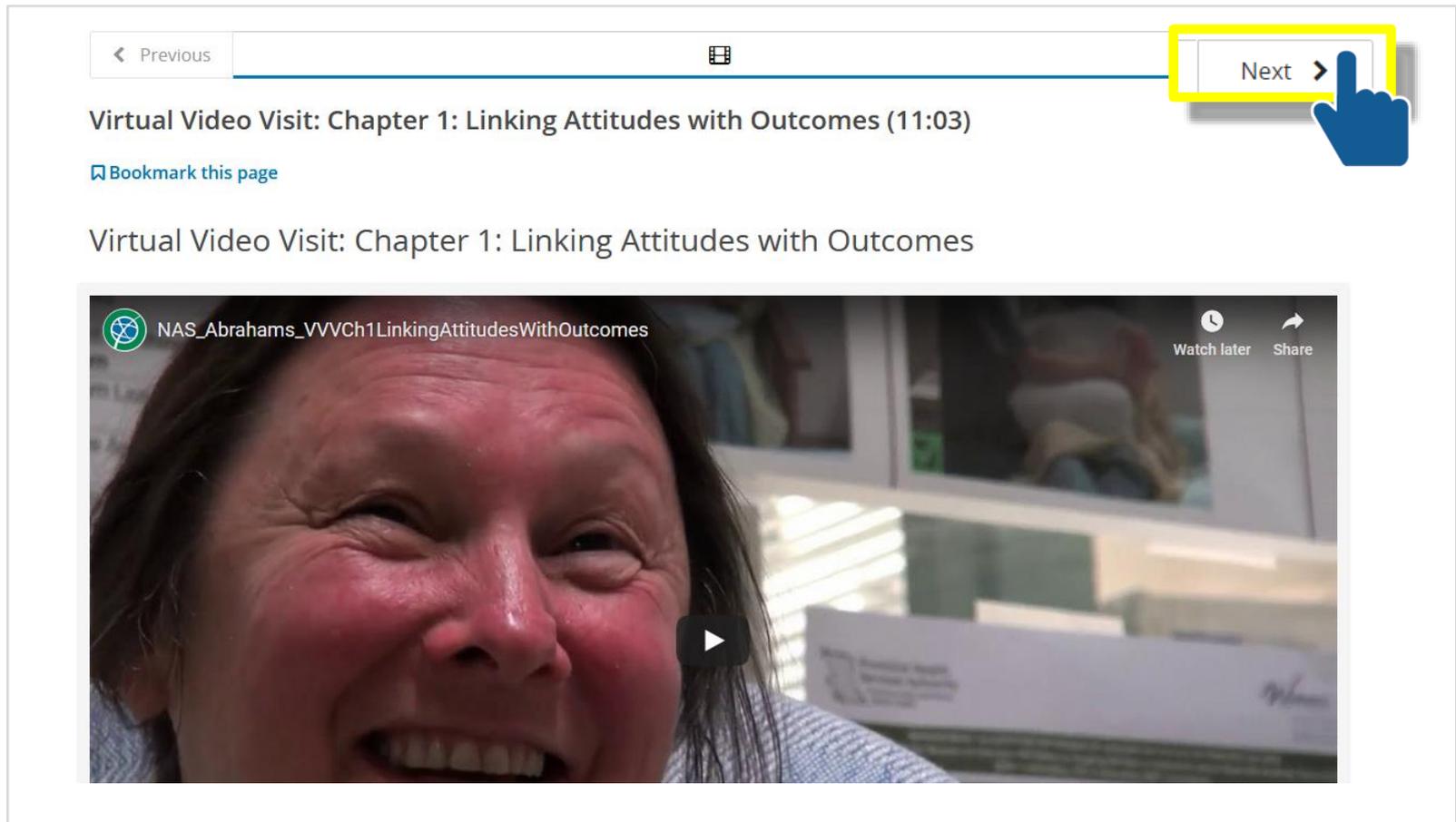
Click the *Course* tab, and then click *Start Course*



The screenshot shows a web interface for a course. At the top, there is a navigation bar with tabs: Home, Course, Progress, and Instructor. The 'Course' tab is highlighted with a yellow box. Below the navigation bar, the page title is 'Virtual Video Visit: Chapter 1: Linking Attitudes with Outcomes'. On the right side of the page, there is a blue button labeled 'Start Course', which is also highlighted with a yellow box and has a blue hand cursor icon pointing to it. Below the page title, there is a section titled 'Virtual Video Visit: Chapter 1: Linking Attitudes with Outcomes' containing a list of items: 'Recorded Sessions', 'Access Certificate Part 1 of 3 - Answer Questions Post Test Questions', 'Access Certificate Part 2 of 3 - Complete Evaluation', and 'Access Certificates Part 3 of 3 - Select Your Certificate'.

# How to Access the NAS Lessons

Every lesson will start with the Recorded Session(s).



The screenshot shows a video player interface. At the top, there is a navigation bar with a left arrow and the text 'Previous', a filmstrip icon, and a right arrow with the text 'Next'. The 'Next' button is highlighted with a yellow box and a blue hand cursor pointing at it. Below the navigation bar, the video title is 'Virtual Video Visit: Chapter 1: Linking Attitudes with Outcomes (11:03)'. Underneath the title is a blue bookmark icon and the text 'Bookmark this page'. Below that is the video title again: 'Virtual Video Visit: Chapter 1: Linking Attitudes with Outcomes'. The video player itself shows a woman smiling. In the top left corner of the video player, there is a globe icon and the text 'NAS\_Abrahams\_VVCh1LinkingAttitudesWithOutcomes'. In the top right corner, there are icons for 'Watch later' and 'Share'. A play button icon is centered over the video.

# How to Access the NAS Lessons

Session resources are located below video(s)



- [Virtual Video Visit Facilitators Guide](#)

# NAS Virtual Video Visit

Nurture the Mother — Nurture the Child  
A Virtual Video Visit

0:04 / 11:03

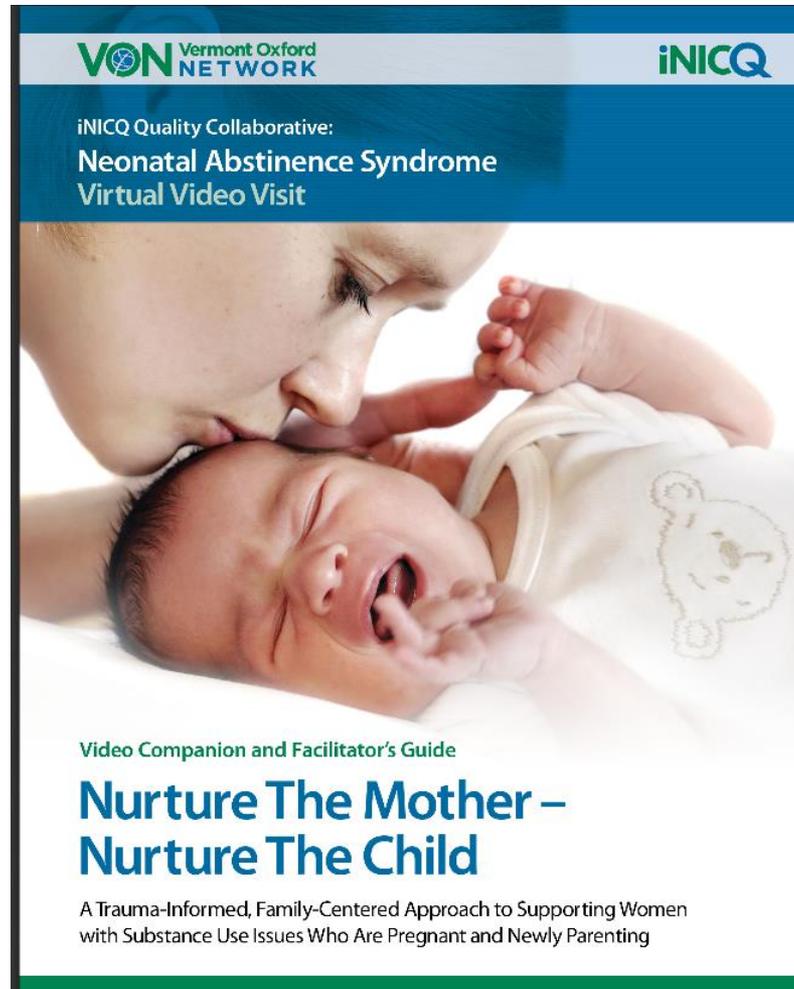
Speed 1.50x



HD



# NAS Virtual Video Visit Facilitator's Guide



# NAS Virtual Video Visit Facilitator's Guide

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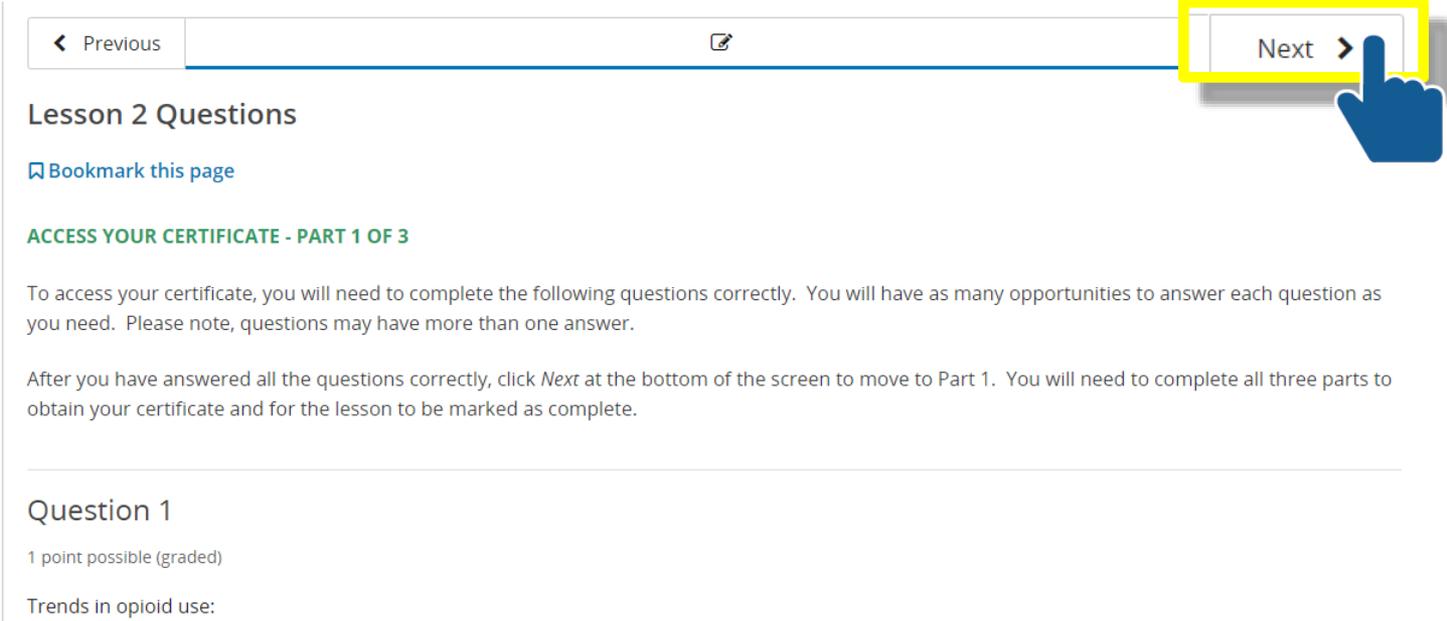
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# How to Access Certificates

To access the lesson certificate, users will first answer the lesson post test questions.



The screenshot shows a user interface for a lesson. At the top, there is a navigation bar with a 'Previous' button on the left and a 'Next' button on the right. The 'Next' button is highlighted with a yellow rectangular box, and a blue hand cursor is pointing at it. Below the navigation bar, the text 'Lesson 2 Questions' is displayed. Underneath, there is a link that says 'Bookmark this page'. A green heading reads 'ACCESS YOUR CERTIFICATE - PART 1 OF 3'. The main text explains that to access the certificate, users must complete the following questions correctly and that they will have multiple opportunities to answer each question. It also states that after answering all questions correctly, users should click 'Next' to move to Part 1. Below this text, the interface shows 'Question 1' with a value of '1 point possible (graded)' and the text 'Trends in opioid use:'.

< Previous

Next >

## Lesson 2 Questions

[Bookmark this page](#)

### ACCESS YOUR CERTIFICATE - PART 1 OF 3

To access your certificate, you will need to complete the following questions correctly. You will have as many opportunities to answer each question as you need. Please note, questions may have more than one answer.

After you have answered all the questions correctly, click *Next* at the bottom of the screen to move to Part 1. You will need to complete all three parts to obtain your certificate and for the lesson to be marked as complete.

---

### Question 1

1 point possible (graded)

Trends in opioid use:

# How to Access Certificates

Users will then complete a lesson evaluation.

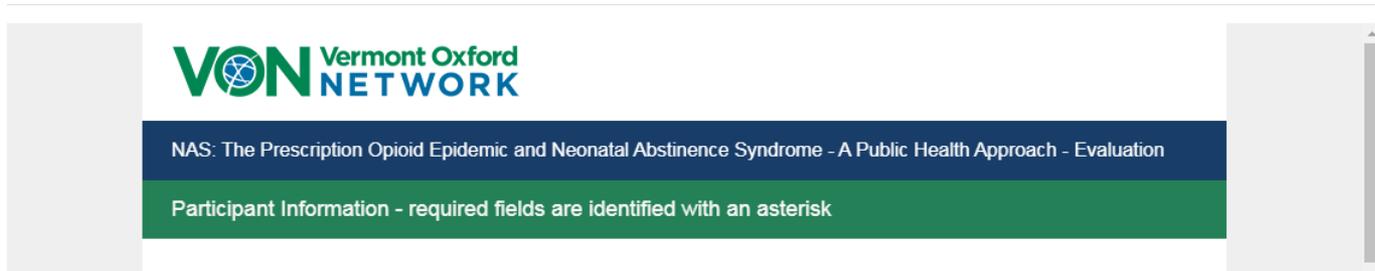


## Lesson 2 Evaluation

[Bookmark this page](#)

### ACCESS YOUR CERTIFICATE PART 2 OF 3 - COMPLETE YOUR EVALUATION

Please complete the following evaluation. When you have completed the evaluation, click *Next* at the bottom of the screen to move to Part 3. You will need to complete all three parts to obtain your certificate and for the lesson to be marked as complete.



# How to Access Certificates

Users will then select their certificate type (CME/CNE) to generate their certificate.

< Previous  Next >

### Select Your Certificate

[Bookmark this page](#)

**ACCESS YOUR CERTIFICATE PART 3 OF 3 - SELECT YOUR CERTIFICATE**

Please select what type of certificate/credit you would like below, be sure to save your selection.

We offer continuing Medical (CME) and Nursing (CNE) credits for this lesson. For step-by-step instructions, please view [How to Select Certificates](#).

#### VON Certificates

Select the certificate type:

Select an option ▼

Select an option

**Nursing Contact Hour Certificate**

Continuing Medical Education

# How to Access Certificates



Home

Course

Progress



## Course Progress for Sample Student

### Your certificate is available

You can keep working for a higher grade, or request your certificate now.

Request  
Certificate



# How to Access Certificates



## Course Progress for Sample Student

**Your certificate is available**

You can keep working for a higher grade, or request your certificate now.

[View Certificate](#)



# How to Access Certificates

Congratulations! This page summarizes what you accomplished. Show it off to family, friends, and colleagues in your social and professional networks.

 Print Certificate

VON acknowledges the following student accomplishment



The University of Vermont  
LARNER COLLEGE OF MEDICINE

Nursing Contact Hour Certificate  
Vermont Oxford Network  
33 Kilburn Street, Burlington, VT 05401  
[www.vtoxford.org](http://www.vtoxford.org)

## Sample Student

has successfully completed

## Practical Foundations in Improvement Science Lesson 1: What is the Science of Improvement?

PLACE:	Vermont Oxford Network EdX
ORGANIZATION:	Vermont Oxford Network
MAXIMUM CONTACT HOURS AVAILABLE:	0.75 CONTACT HOURS
ACTUAL NUMBER OF CONTACT HOURS EARNED:	0.75 CONTACT HOURS

# Additional Lessons Available



Practical Foundations in  
Improvement Science - VON/IHI  
Contains 8 Micro-Lessons.

[Go to Course Homepage](#)



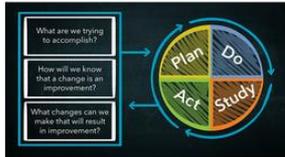
# Additional Lessons Available

Welcome to Practical Foundations in Improvement Science - VON/IHI



Practical Foundations in Improvement Science: Course Introduction and Improvement Toolkit

[Go to Micro-Lesson](#)



Practical Foundations in Improvement Science Lesson 1: What is the Science of Improvement?

[Go to Micro-Lesson](#)



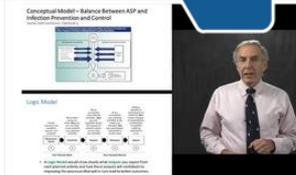
Practical Foundations in Improvement Science Lesson 2: Applying the Model for Improvement

[Go to Micro-Lesson](#)



Practical Foundations in Improvement Science Lesson 3: Introduction to Measurement for Improvement

[Go to Micro-Lesson](#)



Practical Foundations in Improvement Science Lesson 4: Visualizing Your Improvement Work

[Go to Micro-Lesson](#)



Practical Foundations in Improvement Science Lesson 5: Using Systems Principles to Spread an Improvement Project

[Go to Micro-Lesson](#)



## Information and Resources

- [Course Trailer](#)
- [Faculty Introductions](#)
- [Course Introduction](#)

# Questions? Comments?



**Courtney Scott**  
**vondays@vtoxford.org**



**VON Days Audit  
Coordinator**

# VON Days Quality Audits/NAS

- **Two audits will be performed**
  - *Not an actual on-site “audit”; data is collected and entered into a web-based portal*
  - Inclusion Criteria
    - **infants treated pharmacologically for NAS** at 7 days of age or less and discharged during the specified 3 month eligibility period
  - Audits will include up to 30 infants
  - More Eligibility details in Manual of Operations

**NOTE: Confirm IRB requirements for your local participation in the audit!**

# IRB Approval is Important!

- The primary purpose of the audit is quality improvement.
- However, since the auditor may have access to protected health information and since the aggregated results of the audit may be published, **consult with your local Institutional Review Board** to determine what reviews and approvals are required prior to participation.
- IRB applications are generally accepted without issue
- Data will not be broken down by provider or used to monitor individual actions

# VON Day Quality Audits/NAS

## Two parts to the audit – unit and patient

### Unit Level Data

- Policy or guidelines indications for and procedures for **screening for maternal substance abuse.**
- Policy or guidelines for **comprehensive treatment of infants with NAS**
- Scoring tools used
- Formal educational program that promotes **standardization of NAS scoring** among caregivers
- Policy or guidelines for **non-pharmacological treatment** of NAS
- Policy or guidelines for **pharmacologic treatment**
- Policy or guidelines **that encourage breastfeeding or the provision of human milk**

# VON Day Quality Audits/NAS

## Patient-Level Data

- Birth weight; Gestational age; Inborn vs. outborn status
- Toxicological screening performed?
- Scoring performed?
- Pharmacologic agents used
- Total duration of pharmacologic treatment
- Interval between last dose of NAS agent and discharge?
- Home on medications? **If so, what medications?**
- Mother's own milk in the 24-hours before DC
- Infant discharged to?
- Total length of **NICU stay**
- Total length of **hospital stay**

# VON Day Quality Audits/NAS

## Results Reported to Centers

- Total number of infants pharmacologically treated for NAS in the first 7 days of life
- Total NICU length of stay
- Total hospital length of stay
- Total duration of pharmacologic treatment
- Potential DC delays
  - Number of days after treatment stopped to DC
- % on mother's milk at DC
- Medications used for treatment
- Medications at DC

# Tips for a Successful VON Day Quality Audit Participation

**The 3 month eligibility period is determined by your team. You will be using paper forms only for the audit. Maintain those forms for electronic entry during the VON Day Audit.**

*Example eligibility period = April 1, 2019 – June 30, 2019*

*Audit window = July 8, 2019 – July 12, 2019*

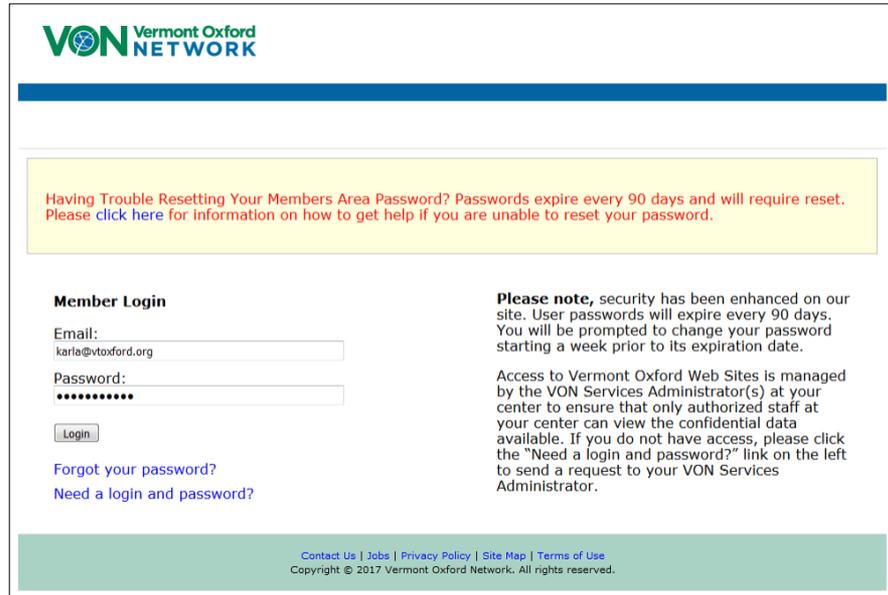
**Any problems with VON Day registration, data definitions or technical issues involving the VON Day Audit [vondays@vtoxford.org](mailto:vondays@vtoxford.org) or 802 865 4814 ext 247**

**Other Questions? Email [vondays@vtoxford.org](mailto:vondays@vtoxford.org)**

# Accessing the Data Entry Portal

Once a data collector has been identified, they can log into the Data Entry Portal here:

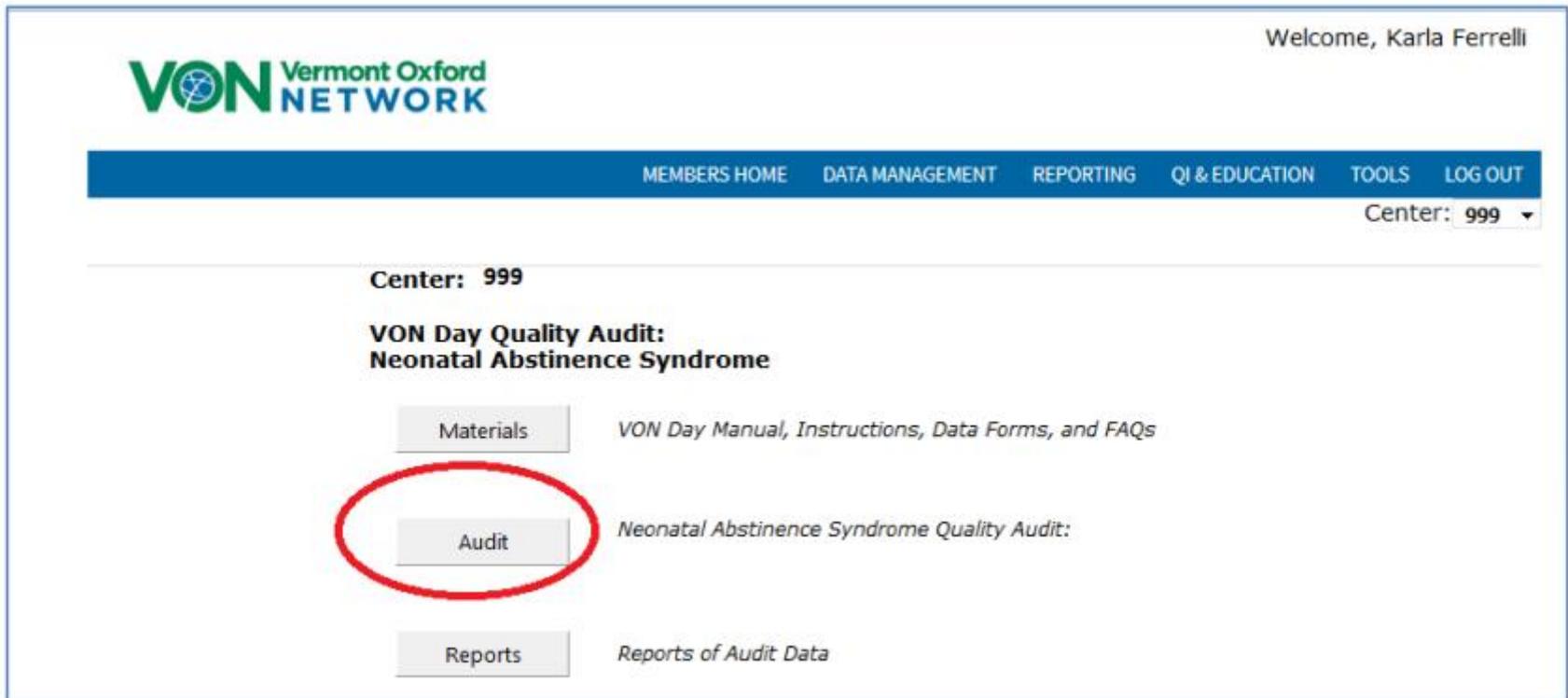
<https://vondays.vtoxford.org/VonDaysAudits.aspx?id=3&id=3>



The screenshot shows the Vermont Oxford Network (VON) Member Login page. At the top left is the VON logo with the text "Vermont Oxford NETWORK". Below the logo is a blue horizontal bar. A yellow warning box contains the text: "Having Trouble Resetting Your Members Area Password? Passwords expire every 90 days and will require reset. Please click here for information on how to get help if you are unable to reset your password." The main content area is divided into two columns. The left column is titled "Member Login" and contains an "Email:" field with the text "karla@vtoxford.org", a "Password:" field with masked characters, and a "Login" button. Below the login fields are links for "Forgot your password?" and "Need a login and password?". The right column contains a "Please note" section stating that security has been enhanced and passwords expire every 90 days, followed by a paragraph explaining that access to VON Web Sites is managed by the VON Services Administrator(s) and that confidential data is only available to authorized staff. At the bottom of the page is a green footer bar with the text: "Contact Us | Jobs | Privacy Policy | Site Map | Terms of Use Copyright © 2017 Vermont Oxford Network. All rights reserved."

# Accessing the Data Entry Portal

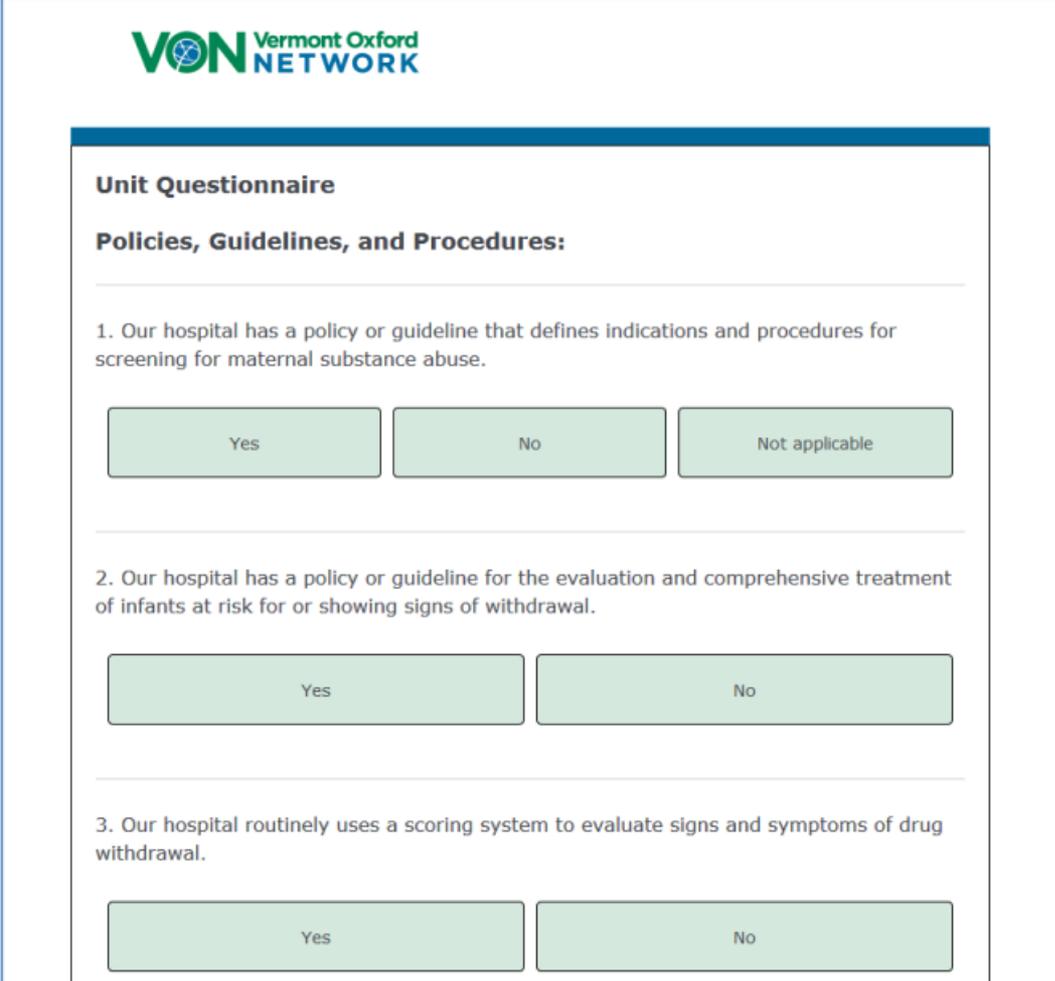
Once logged in, you will see the following page. Click the Audit link and it will bring you to the unit questionnaire.



The screenshot shows the VON Vermont Oxford Network Data Entry Portal interface. At the top right, it says "Welcome, Karla Ferrelli". The VON logo is on the left. A blue navigation bar contains links for MEMBERS HOME, DATA MANAGEMENT, REPORTING, QI & EDUCATION, TOOLS, and LOG OUT. Below the navigation bar, there is a dropdown menu for "Center: 999". The main content area displays "Center: 999" and "VON Day Quality Audit: Neonatal Abstinence Syndrome". There are three buttons: "Materials" (with description "VON Day Manual, Instructions, Data Forms, and FAQs"), "Audit" (circled in red, with description "Neonatal Abstinence Syndrome Quality Audit:"), and "Reports" (with description "Reports of Audit Data").

# Step 1: Complete the Unit Data Form

Complete the Unit Data Form.



The screenshot shows a web-based form titled "Unit Questionnaire" from the Vermont Oxford Network. The form is titled "Policies, Guidelines, and Procedures:" and contains three numbered questions. Each question has a horizontal line for a text response and a set of radio button options. Question 1 asks about a policy for screening for maternal substance abuse, with options for "Yes", "No", and "Not applicable". Question 2 asks about a policy for the evaluation and treatment of infants at risk for or showing signs of withdrawal, with options for "Yes" and "No". Question 3 asks about the use of a scoring system to evaluate signs and symptoms of drug withdrawal, with options for "Yes" and "No". The form is enclosed in a blue border.

**VON Vermont Oxford NETWORK**

### Unit Questionnaire

**Policies, Guidelines, and Procedures:**

---

1. Our hospital has a policy or guideline that defines indications and procedures for screening for maternal substance abuse.

Yes  No  Not applicable

---

2. Our hospital has a policy or guideline for the evaluation and comprehensive treatment of infants at risk for or showing signs of withdrawal.

Yes  No

---

3. Our hospital routinely uses a scoring system to evaluate signs and symptoms of drug withdrawal.

Yes  No

# Step 1: Complete the Unit Data Form

At the end, you will be asked if you have patients to enter. Select yes if you have patients to enter. Select no if you do not have any eligible patients which completes the audit.

Click save and continue.

8. Our hospital routinely transfers infants for initiation or maintenance of pharmacological treatment of neonatal abstinence syndrome.

Yes No

9. Our hospital has a policy or guideline that encourages breastfeeding or the provision of expressed human milk in substance exposed infants.

Yes No

Do you have any patients to enter?

*If you answer 'No' here, you will have completed the audit with no eligible patients. Please verify your unit answers, as you will not be able to edit them after clicking "Save and Continue."*

Yes No

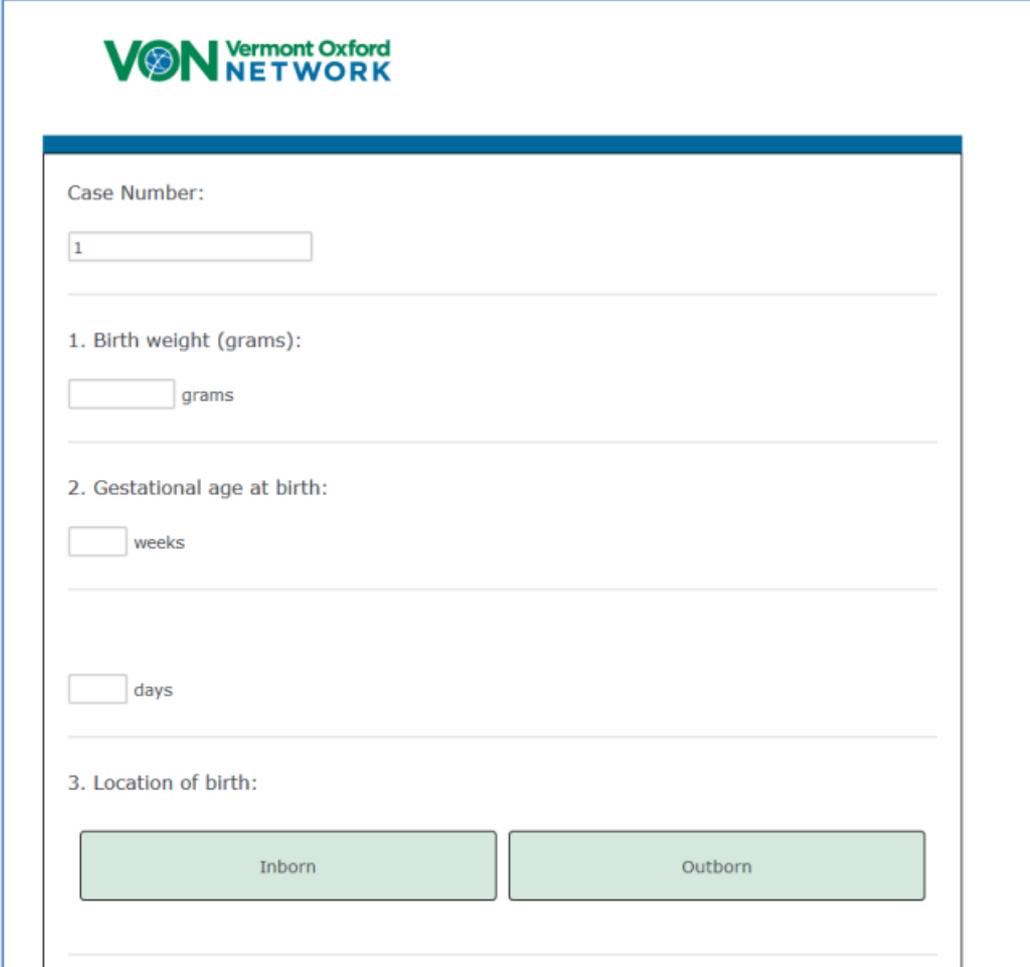
Save and Continue

Please check your answers before you "Save and Continue"

# Step 2: Complete the Patient Data Form(s)

Complete the Patient Data Form.

At the end, select yes if you have more patients to enter. Otherwise, select no. The audit is now complete and you will be prompted to complete a survey.



The screenshot shows a web-based form titled "Vermont Oxford NETWORK". The form is enclosed in a blue border and contains the following fields and options:

- Case Number:** A text input field containing the number "1".
- 1. Birth weight (grams):** A text input field followed by the word "grams".
- 2. Gestational age at birth:** Two text input fields, the first followed by "weeks" and the second followed by "days".
- 3. Location of birth:** Two green buttons labeled "Inborn" and "Outborn".

# Next Steps

1. Identify the eligibility date for July 2019 audit
2. Identify the data collector for each participating site
3. Start the IRB process for each participating site
4. Review VON Day materials in edX
  1. Manual of Operations
  2. Frequently Asked Questions
  3. Unit and Patient Level Data Forms

# Questions? Comments?



# Who to Call and Contact

## **State Collaborative Support/ Business Details / Handouts / Materials**

**Pam Ford** [pford@vtxford.org](mailto:pford@vtxford.org)

**Phone: 802.865.4814 ext 204**

## **Learning Systems Manager**

**John McGregor EdD** [jmcgregor@vtxford.org](mailto:jmcgregor@vtxford.org)

**Phone 802.865.4814 ext 267**

## **LMS Registrar / LMS Enrollment**

**Brian George** [bgeorge@vtxford.org](mailto:bgeorge@vtxford.org)

**Phone 802.865.4814 ext 213**

## **VON Day Quality Audits / Support**

**Courtney Scott** [vondays@vtxford.org](mailto:vondays@vtxford.org)

**Phone: 802.865.4814 ext 247**