

Centers for Disease Control and Prevention  
National Center for Immunization and Respiratory Diseases



## Immunization Resources for Undergraduate Nursing (IRUN)

Association of Public Health Nurses Annual Conference

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May 1, 2018

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ASSOCIATION FOR PREVENTION TEACHING AND RESEARCH

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### Learning objectives

- Describe the IRUN Project and its intended goal
- List the main components of the IRUN Project
- Identify the IRUN Project's primary target audience

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## Overview

- Immunizations and health equity
- What is IRUN?
- Why the IRUN Project?
- Who is the target audience?
- Who is involved in the project?
- How did we address the project goal?
- When and where can you access IRUN?
- How will the target audience use IRUN?

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## Immunizations and health equity

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## Immunizations and health equity



### Health equity

“attainment of the highest level of health for all people”

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### Immunizations and Health Equity

- Vaccines provide optimal protection and reduce risk for vaccine-preventable diseases
- High vaccination coverage eliminates disparities that put some individuals at higher risk for vaccine-preventable diseases and, therefore, promotes health equity
- Nurses play a key role in keeping a highly immunized population as advocates, educators, and health care providers
- A nursing workforce that is competent in immunization practices
  - It can be achieved when robust immunization training starts in undergraduate nursing

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### Immunizations and health equity




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What is IRUN?

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## What is IRUN?

- Immunization Resources for Undergraduate Nursing
- Goal: Improve immunization content in undergraduate nursing curricula
- IRUN website
  - Resources **website** using an immunization teaching **framework** as the website's navigation or organization
  - Populated with **teaching resources** developed by CDC and academic institutions—specifically, **case studies** and **presentation slides**

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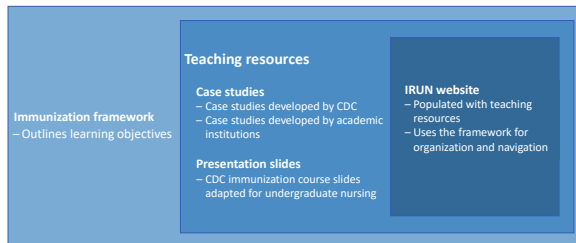
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## What is IRUN?

### IRUN Project components




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The screenshot shows the MARTi website with the following elements:

- Header:** MARTi logo, navigation links (Home, Vaccine Administration, Vaccines For Specific Diseases, Patient Education, Recordkeeping, Safety, Schedules, Storage & Handling, General Information, Newsletters Archive), and social media links (Facebook, Twitter, YouTube, APTR).
- Main Content Area:**
  - Keeping Up With Immunization:** A section featuring a photo of a medical assistant at a computer, with text stating: "What Medical Assistants Need To Know. MARTi provides Medical Assistants easy access to credible and useful immunization information. Search for immunization trainings, resources, and the latest updates here."
  - In The Spotlight:** A blue box highlighting "A 2017 Supplement to Epidemiology and Prevention of Vaccine-Preventable Diseases, 13th Edition (the Pink Book)".
  - Sign Up For News:** A box with an envelope icon and the text "Keep up with the latest immunization information for Medical Assistants. Click here to sign up."
  - States:** A box with a red map of the United States and the text "Click here to find your state immunization program."
- Footer:** The URL <http://www.marti-us.org/>.

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## Why the IRUN Project?

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## Why the IRUN Project?

Healthy People 2020: Educational and Community-Based Programs (ECBP)

ECBP-14 Increase the inclusion of core clinical prevention and population health content in undergraduate nursing

<https://www.healthypeople.gov/2020/topics-objectives/topic/educational-and-community-based-programs/objectives>

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## Why the IRUN Project?

Gap in up-to-date immunization resources for undergraduate nursing

University of Oklahoma College of Nursing survey\* :

- 1,647 U.S. nursing programs and received 506 responses
- Nurses play key roles in immunization
  - Communication with patients, parents, caregivers, and families
  - Vaccine administration
  - Vaccine storage and handling
- Immunization is most frequently taught as a part of pediatrics curriculum, even though vaccinations are required throughout the life span
- Teaching immunization in undergraduate nursing is difficult due to content saturation

\*Nursing Initiative Promoting Immunization Training (NIP-IT) Evaluation

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Who is the target audience?

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Who is the target audience?

- Undergraduate baccalaureate nursing faculty and educators

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Gap in up-to-date immunization resources for undergraduate nursing

Goal: Improve immunization content in undergraduate nursing curricula

Intervention: Develop a nursing immunization resource

Target audience: Undergraduate baccalaureate nursing faculty and educators

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## Who is involved in the project?

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## Who is involved in the project?

- CIIUN - Committee on Integration of Immunization into Undergraduate Nursing
  - Established in 2015 by APTR through cooperative agreement with CDC
  - Committee members (15-17)
    - Undergraduate nursing educators
    - Representatives of national nursing practice and educational associations (including ANA, AACN, NASN, NCSBN)
    - Nursing student representatives (including NSNA)
- CDC interprofessional staff (physician, nurse, and health educator)
- APTR and APTR/CDC nursing Fellow

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## How did we address the project goal?

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### How did we address the project goal?

IRUN Goal: Improve immunization content in undergraduate nursing curricula

2015: 1<sup>st</sup> Committee Meeting

- Immunization education in nursing curricula lacks structure and is not consistent

#### Recommendations:

1. Development of framework for immunization education in undergraduate nursing
2. Development of teaching resources
3. Development of IRUN website

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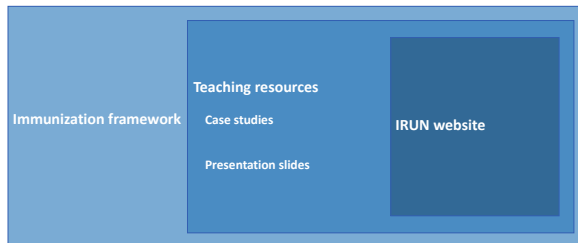
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### How did we address the project goal?

IRUN project components




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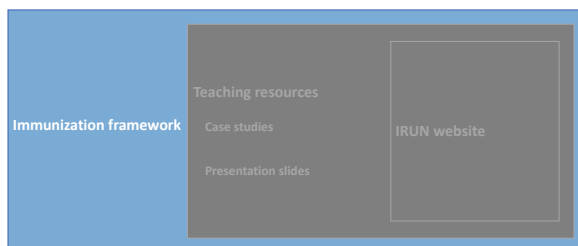
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### How did we address the project goal?




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## Framework with objectives

### Purpose:

- Provide guidance for faculty on integrating immunization content into a curriculum, with a focus on entry-level learning for the undergraduate nursing student
- Ensure access to and consistency of current information for faculty members and students
- Prioritize information and content to be included in curricula

### Use:

- Nursing faculty members will use the framework to assess their existing curricula for content gaps

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## Framework with objectives

I. Public Health Perspective
II. Immunization Strategies
III. Immune System/Immunology
IV. Vaccine-Preventable Diseases
V. Types of Vaccines
VI. Immunization Schedules
VII. Communications
VIII. Legal/Ethical Issues
IX. Vaccine Storage and Handling
X. Vaccine Administration
XI. Documentation
XII. Vaccine Safety

### V. Types of Vaccines

#### Learning Objectives

1. Identify types of vaccines (i.e., live, inactivated).
2. Compare types of vaccines by how they are derived.
3. Compare types of vaccines by how they produce immunity.
4. Discuss implications of the different types of vaccines (i.e., contraindications, precautions, risks, and use in special populations).
5. Identify common vaccine components that may be present in a given vaccine product (e.g., adjuvants, preservatives, stabilizers, and antibiotics).
6. Identify common public concerns about vaccine components such as formaldehyde, aluminum, and thimerosal.
7. Describe the nursing roles related to types of vaccines: communicator, educator, lifelong learner, and screener/assessor

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## Framework with objectives

### Development process

1. CDC staff and nursing fellow drafted learning objectives from 4 documents
  - Immunization Competencies for Health Professionals – *Public Health Agency of Canada*
  - Teaching Immunization Practices for Nurses – *ANA, APTR (formerly ATPM), and CDC*
  - Nursing Initiative Promoting Immunization Training (NIP-IT) – *University of Oklahoma College of Nursing and CDC*
  - Competencies of the Immunization Technical Workforce – *Global Immunization Division, CDC*
2. CIUN members reviewed and approved the immunization framework

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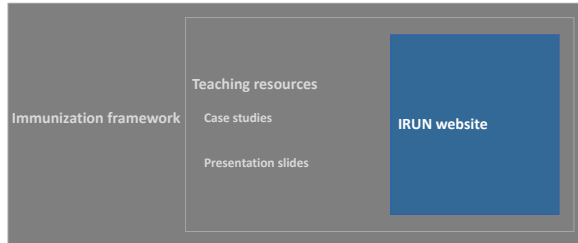
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### How did we address the project goal?




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### IRUN website

I. Public Health Perspective	<b>Learning objectives</b> 1. Identify the routinely recommended vaccines for children and adolescents aged birth through 18 years using the Recommended Immunization Schedule for Children and Adolescents Aged 18 Years or Younger. 2. Identify the routinely recommended vaccines for persons aged 19 years of age and older using the Recommended Immunization Schedule for Adults Aged 19 Years or Older. 3. Identify contraindications and precautions by vaccine.
II. Immunization Strategies	
III. Immune System/Immunology	
IV. Vaccine-Preventable Diseases	
V. Types of Vaccines	
VI. Immunization Schedules	<b>Suggested resources</b> CDC Vaccines and Immunizations website—General Best Practice Guidelines for Immunization <a href="https://www.cdc.gov/vaccines/hcp/ncip/recs/general/recs/index.html">https://www.cdc.gov/vaccines/hcp/ncip/recs/general/recs/index.html</a>
VII. Communications	
VIII. Legal/Ethical Issues	<b>Teaching resources</b> Presentation slides : General Recommendations on Immunization Case study : Catch-Up Schedule
IX. Vaccine Storage and Handling	
X. Vaccine Administration	<b>Resource share</b> Nursing faculty members share teaching resources
XI. Documentation	
XII. Vaccine Safety	

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### When and where can you access IRUN?

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### When and where can you access IRUN?

- Publish journal article on IRUN framework
- Launch IRUN website in summer 2019
  - APTR will host, maintain, and update the website and resources

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### How will the target audience use IRUN?

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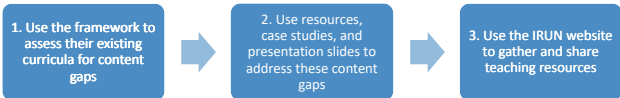
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### How will the target audience use IRUN?

Undergraduate nursing faculty members and educators will




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## Next steps

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## Next steps

1. Publish IRUN framework
2. Finalize case studies and presentation slides
3. Develop IRUN website
4. Develop evaluation plan for the IRUN Project

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## Acknowledgements

- APTR's Committee on Integrating Immunization into Undergraduate Nursing Curriculum
- Katy Bidwell
- Andrew Kroger, MD, MPH
- Allison Lewis
- Donna Page, MPH, MCHES
- Ginger Redmon, MA

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Questions about the IRUN Project?

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Thank You!  
Ruth Gallego, RN, MPH, CHES

For more information, contact CDC  
1-800-CDC-INFO (232-4636)  
TTY: 1-888-232-6348 [www.cdc.gov](http://www.cdc.gov)

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