# When Education is Not Enough



DIANE NIELSON, FAMILY AND CONSUMER SCIENCES AGENT IN ATCHISON COUNTY

CINDY OLSON-BURGESS, RN, CIC, IKC TREASURER

EMILY BAILEY, IKC STAFF

CONNIE SATZLER, IKC STAFF



### Overview

- Introductions
- About IKC
- Vaccination Rates
- Vaccine Confidence and Misinformation
- Immunization Resources
- Ideas for Extension
- Questions



### Diane Nielson

- Atchison County Extension Agent,
   Family & Consumer Sciences/4-H
- Public health education programs created an opportunity to partner with IKC
- Why am I passionate about vaccines?
  - Vaccines are interwoven into my life story.
     Measles, mumps and chickenpox were
     common during my childhood. Measles
     complications resulted in loss of hearing for
     my brother.
  - Professionally, lifespan immunizations support community well-being.



# Emily Bailey & Connie Satzler



Emily Bailey
IKC Liaison Member and Staff



Connie Satzler

IKC Liaison Member and Staff

# Cindy Olson-Burgess, RN, CIC

- IKC Treasurer
- Recently retired as Immunization Program Coordinator at Children's Mercy Hospital in Kansas City
- Why am I passionate about vaccines?
  - Cared for patients with vaccinepreventable diseases before many vaccines were available



# Cindy's Story







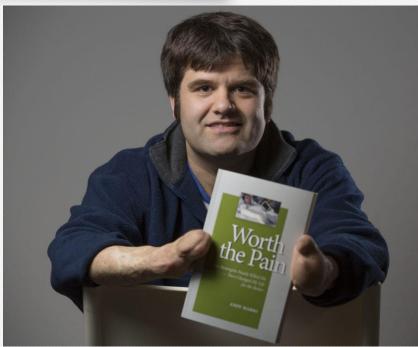
Top left: Child with mumps shows characteristic jaw swelling

Lower left: Eyes of a child with measles

Left: Infant being treated for severe pertussis infection.

Below: A child with deformity of her right leg caused by poliovirus infection.





Above: Andy Marso, survivor of bacterial meningitis lost parts of both his feet and hands to the painful disease

Photo Credits: CDC, Lawrence Journal-World

# About IKC



# Mission: Protect all Kansans from vaccine-preventable diseases

- Physicians
- Nurses
- Physician Assistants
- Pharmacists
- Managed Care

- Epidemiologists
- Educators
- School Nurses
- Universities
- Health Departments

- Cancer Organizations
- Researchers
- Hospitals
- Child Advocacy Groups
- Medical Societies



About 40 member organizations and 130 people on the distribution list

### **Current Priorities**

- Increase Adolescent immunization rates
  - HPV (Human papillomavirus)
  - Meningococcal A, C, W, Y (MCV)
  - Maintain Tdap booster
- Increase Influenza immunization rates for all 6 months and older
- Bolster vaccine confidence
- Maintain immunization rates during COVID-19





# Vaccination Rates

# School-Age 2018-19

State	MMR	Chickenpox	DTaP	Healthy People 2020 Goal
North Dakota	93.6%	93.8%	93.6%	95%
South Dakota	96.2%	95.5%	95.8%	95%
Kansas	90.8%	89.2%	91%	95%

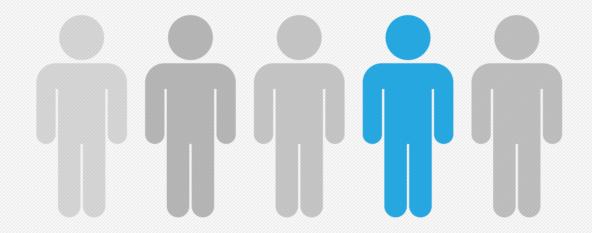
Philosophical Exemptions not allowed in SD or KS for MMR KS counted all documented doses - not differentiating if considered valid

# What percentage of people are exposed to HPV during their lifetime?

- More than 25%
- More than 50%
- More than 66%
- More than 80%

# What percentage of people are exposed to HPV during their lifetime?

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- More than 66%
- More than 80%



True or False? HPV can cause cancer.

- True
- False

### True or False? HPV can cause cancer.

- True HPV can cause at least 6 types of cancer and nearly all cervical cancers are caused by HPV.
- False

# HPV Vaccination Rates (US, ND, SD, KS)

State	Up-To-Date Males and Females	Up-to-Date Males	Up-to-Date Females	Healthy People 2020 Goal
U.S.	54.2%	51.8%	56.8%	80%
North Dakota	76.9%	77.2%	76.6%	80%
South Dakota	61.2%	63.0%	59.2%	80%
Kansas	49.5%	52.3%	46.6%	80%

# Friendly PSA:

Have you gotten your flu shot?

Give us a thumbs up, if you have!



# Flu Vaccination Rates (US, ND, SD, KS)

State	6mo+	6mo-17yrs	18yrs+	Healthy People 2020 Goal
U.S.	51.8%	63.8%	48.4%	70%
North Dakota	56.5%	69.0%	52.9%	70%
South Dakota	58.7%	70.3%	55.1%	70%
Kansas	54.5%	66.1%	50.9%	70%

Influenza vaccination coverage estimates for persons 6 months and older by state, HHS region, and the United States, National Immunization Survey-Flu (NIS-Flu) and Behavioral Risk Factor Surveillance System (BRFSS), 2019-20 influenza season

# **Declining Rates During COVID-19**

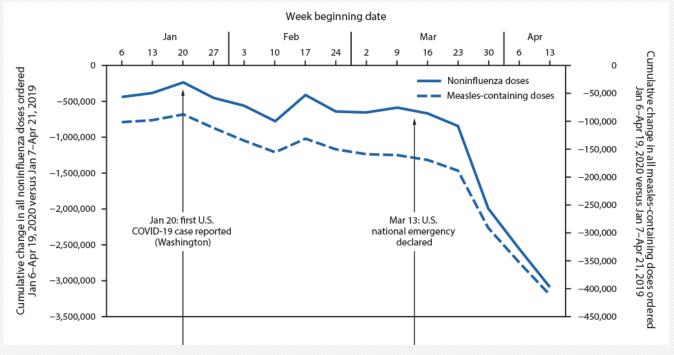
 Significant decrease in orders for VFC-funded, ACIP-recommended non-influenza childhood vaccines

Fewer childhood vaccines have been given during the COVID-19 pandemic\*

To avoid outbreaks of vaccine-preventable diseases and keep children protected, vaccinations and well-child visits are essential

\*Compared with January-April, 2019

 The decline began the week after the national emergency declaration; similar declines in orders for other vaccines were also observed.



# Why We Need to Keep Vaccinating Community immunity (also known as herd immunity) protects people by lessening and eliminating disease outbreaks Few vaccinated people Many vaccinated people Quick disease spread Slow disease spread

Graphic Source: https://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/immunizations/Pages/Across-America.aspx

# Community Immunity

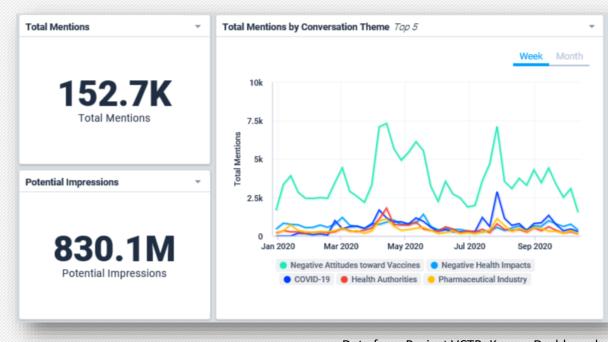
When a large part of the population of an area is immune to a specific disease. If enough people are resistant to the cause of a disease, such as a virus or bacteria, it has nowhere to go.

While not every single individual may be immune, the group as a whole has protection.

# Vaccination Confidence & Misinformation

### Vaccine Confidence & Misinformation

- First, the majority of Kansans (and Dakotans) trust vaccines!
- ...but there are *growing* voices of vaccine hesitancy and opposition
- Misinformation can spread faster than truth and it sticks around
  - e.g. Have you ever heard that vaccines cause autism? That's from a discredited study from 1998! Yet, it's still a myth going around today.



Data from Project VCTR, Kansas Dashboard

January 1, 2020 – October 15, 2020

Conversation around vaccine opposition, vaccine hesitancy, or negative attitudes toward vaccines



The World Health Organization now lists vaccine hesitancy in the Top 10 Global Health Threats

### True or False?

Most of the vaccine-preventable diseases don't even exist anymore.

# Pop Quiz!

### True or False?

Most of the vaccine-preventable diseases don't even exist anymore.

False! Every vaccine-preventable disease is only one plane ride away.

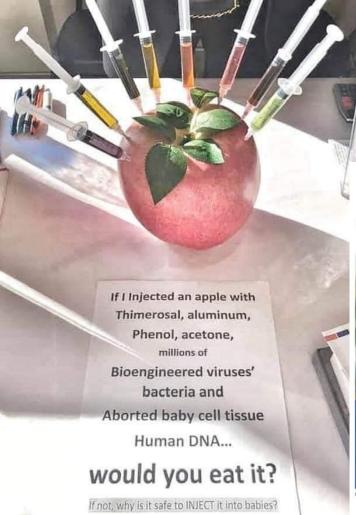


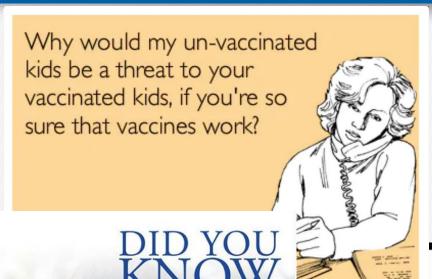
Pop Quiz!

# **Examples of Vaccine Misinformation**

That children diagnosed with autism

have been compensated for





Children's



### **FIRST YEAR OF LIFE** Your "normal" is making me sick.





HepB, Vitamin K



HepB, RV,DTaP

**IPV** 



Hib, PCV13,



4 months

RV, DTaP, Hib, PCV13,



6 months

HepB, RV, DTaP,



Hib, PCV13, IPV, Influenza, MMR, HepA Varicella

**IPV** 

Hib, PCV13, IPV, Influenza

# **Spot Misinformation**

### CHECK THE SOURCE

Look at what is being said. Is the website or person known for conflating facts and opinions? Is it mostly "us vs. them" rhetoric?

### CHECK THE DATA AND MOTIVE

Where did the information originally come from? Is there an abundance of claims with no real evidence? Understand why it's being said. Are they just trying to get views/clicks? Are they just looking for anything that supports their own worldview?

### **CHECK THE DATE**

Is the article or social post positioned as recent news, but was actually published months or years ago? Is there updated information available elsewhere on the internet?

### STILL UNSURE?

Use a reputable fact-checking website.

Websites like <u>FactCheck.org</u> or <u>Snopes.com</u> are great resources if you're still unsure.



### Resources to Answer Common Questions



### Resources to answer common questions about vaccines

If you or someone you know has questions about vaccines, the resources listed below provide scientific, evidence-based information and answers. We've categorized each resource under one of six headings: overall vaccine information, how vaccines work, vaccine safety, history and impact of vaccines, addressing vaccine concerns, and sharing about vaccines.

Can't find what you're looking for? Reach out to IKC directly via <u>email</u> or message us on <u>Facebook</u>. We'll do our best to connect you with someone who can answer your question.

#### **Overall Vaccine Information**

CDC Vaccines & Immunizations

Children's Hospital of Philadelphia (CHOP) Vaccine Education Center

#### **How Vaccines Work**

CDC Understanding How Vaccines Work

History of Vaccines How Vaccines Work

CDC How do vaccines help babies fight infections? (video)



The Immunize Kansas Coalition (IKC) is a group of Kansas providers, health department officials, researchers, and educators working together to improve vaccine rates and protect Kansans against vaccine-preventable diseases.

MOST Kansans believe vaccines are important, but a very small, vocal minority of adults want childhood vaccination to be optional. IKC believes this would be as dangerous as allowing people to treat traffic signals as optional.

Freedom is very important to all of us, but the safety of individuals in our community depends on a balance between rights and responsibilities.

Treating childhood vaccines as optional would be as dangerous as allowing people to treat traffic signals as optional.

These infections have serious consequences. The notion that these diseases are "mild" is medically inaccurate. Vaccine- preventable diseases cause permanent consequences such as paralysis, limb amputation, hearing loss, blindness, seizures, brain damage, and death.

Prevention is better than treatment. We have medicine to treat some vaccine-preventable disease (e.g., pertussis), but not most (e.g., mumps, diphtheria, polio). Some bacteria and viruses have developed resistance to medicines.



Vaccines save lives. We know that vaccines have eliminated or dramatically reduced the incidence of many infectious diseases. Experts around the world agree on this. In the U.S. giving children born in a single year all routine vaccines can prevent 42,000 early deaths and 20 million cases of disease. ¹ Vaccines also save money. Every \$1 spent on childhood vaccines saves \$10.2

1 https://bit.ly/2YvAbNL 2 https://bit.ly/2BdDW1o

These infections are still among us or are just a plane ride away.

- Vaccine-preventable diseases such as measles, mumps, and pertussis continue to infect U.S. children, resulting in hospitalizations and deaths every year.
- Tetanus spores are in the soil and will never be eradicated.
- Some of these diseases are abroad. If children are not vaccinated, they could easily be infected from contact – even indirect contact – with a traveler







U.S. vaccine safety standards are high. Before being licensed in the U.S., scientists, doctors, and the federal government carefully review the data to make sure they're safe. The FDA licenses vaccines only after randomized controlled trials; then there is continuous monitoring after licensure. Standards are high because vaccines are given to healthy people.

If every parent exempted their child from vaccination, these diseases would return to Kansas in full force.

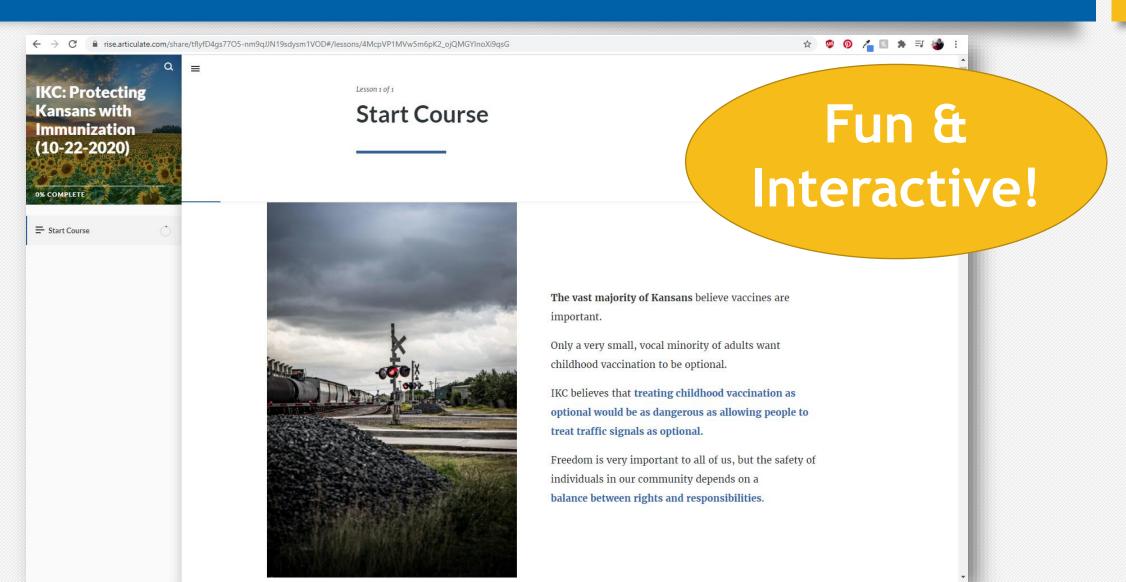
Let's keep improving, not go backwards. For each disease you see the difference between the number of people in the U.S. who became sick per year before the vaccine versus in 2019.

Disease	Cases/Year Before Vaccine	Cases/Year in 2019	Percent Difference
Diphtheria	21,053	2	> 99%
Measles	530,217	1,287	> 99%
Mumps	162,344	3,509	98%
Pertussis	200,752	15,662	92%
Polio	16,316	0	100%
Tetanus	580	19	97%

# Can't find what you're looking for?

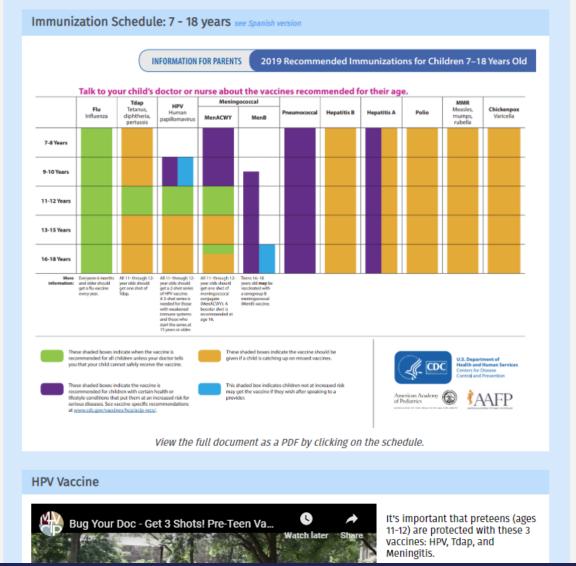
Reach out to IKC and we'll do our best to connect you with someone who can answer your question.

# Protecting Kansans with Immunization Module



# IKC Resources

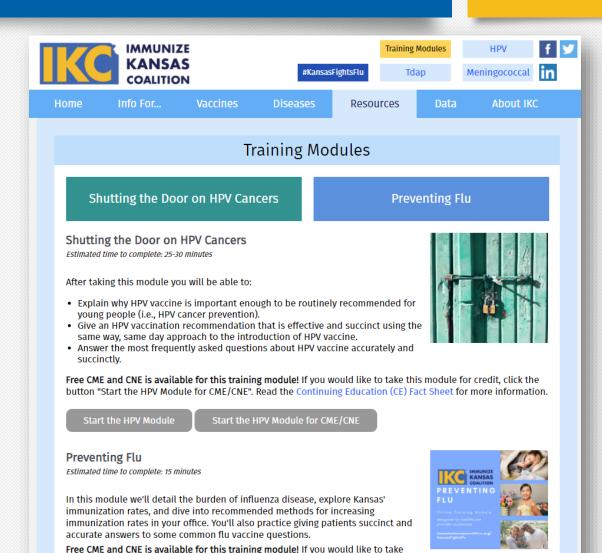




# www.lmmunizeKansasCoalition.org

# Training Modules

- HPV and Flu
- Designed for healthcare audiences
- Use in clinics, hospitals, health departments, etc. to get everyone on the same page with recommending HPV and Flu vaccines!
- FREE Continuing Medical and Nursing Education credits available
- www.immunizekansascoalition.org/ trainingmodules



this module for credit, click the button "Start the Flu Module for CME/CNE". Read the Continuing Education (CE) Fact Sheet for more information.

### **School Resources**

- School Immunization Requirements
- IKC Model School Exclusion Policy
- School Nurse HPV Vaccine Sample Language
- www.immunizekansascoalition.org/schools.asp



#### **Model School Exclusion Policy**

#### BOARD POLICY:

The lawful custodian of every enrolled or enrolling student shall be required to present proof of immunization in accordance with KSA 72-6261-72-6265 and KAR 28-1-20 to appropriate school officials.

#### ADMINISTRATIVE PROCEDURE:

- In each school year, every pupil enrolling in any Kansas public school for the first time, prior to
  admission to and attendance at school, shall present to the appropriate school board certification
  from a physician, local health department, or transferring school district that the pupil has received
  at least one of each required immunization per age and grade as determined by Kansas Department
  of Health and Environment (KDHE), with the most recent appropriate immunizations in all required
  series received by [six weeks after the student's enrollment date]. Failure to timely complete all
  required series shall be deemed noncompliance.
- 2. As an alternative to the immunizations required a pupil shall present: An annual written statement signed by a licensed physician stating the physical condition of the child to be such that the tests or immunizations would seriously endanger the life or health of the child, or a written statement signed by one parent or guardian that the child is an adherent of a religious denomination whose religious teachings are opposed to such tests or immunizations.
- 3. The school will utilize the reporting form adopted by the KDHE Secretary or electronic approved



### Tips for School Nurses on Talking with Parents about HPV Vaccine

#### Situation or Concern

#### **Effective First Discussion**

Use "bundled" language. HPV is framed as important and no different than other adolescent vaccines.

#### Try Saying...

"Your child is due for vaccinations to protect against pertussis, polio, measles, mumps, rubella, meningitis, HPV cancers, chickenpox and hepatitis B. Schedule an appointment with your child's provider to get these taken care of."

#### **Ineffective First Discussion**

HPV is perceived as different, optional, unimportant.



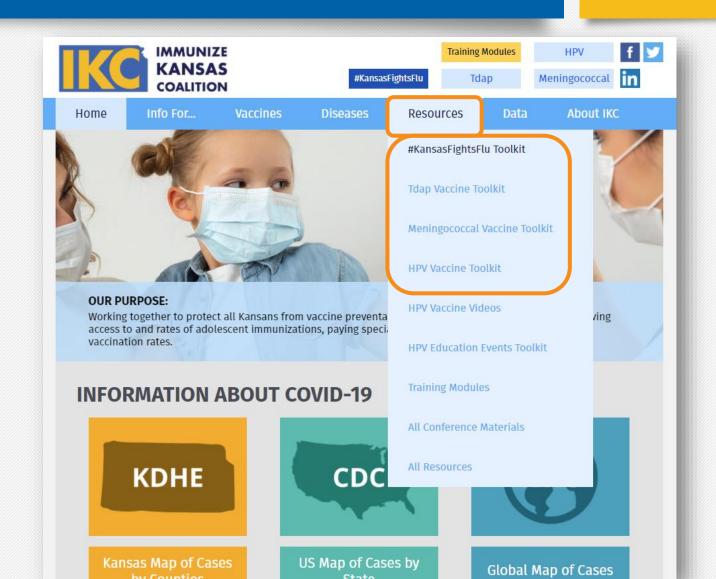
#### Don't Say...

"Your child is required to receive [list of vaccinations] for entry to school. It is also recommended that she receives the meningococcal and HPV vaccines."

Address to a Caraly Ha

### **Toolkits**

- HPV Vaccine Toolkit
- HPV Community Education Toolkit
- Meningococcal Toolkit
- Tdap Toolkit
- #KansasFightsFlu





## Community HPV Education Event Toolkit

HPV Cancer Survivor Stories - Jon

Keep up-to-date on trending articles and news in immunizations

Get notified about IKC meetings and upcoming events

Learn about new resources and trainings



#KansasFightsFlu
New Resources for the 2020-21 Flu Season!



The #KansasFightsFlu toolkit has been updated with new resources from KDHE for the 2020-21 flu season! Check out the new Kansas Flu Stats and Flu Vaccine Stats one-pagers, social media graphics, and posters. Join us in sharing about the importance of getting the flu vaccine on social media by following IKC on Facebook or Twitter and sharing or retweeting our #KansasFightsFlu posts!

We also encourage you to use and share the <u>IKC Preventing Flu training</u> module for training staff in clinics - nurses, physicians, pharmacists, the front

In case you missed it...

HPV vaccination webinar recording available!



In case you missed the webinar Flattening the Kansas Cancer Curve HPV Vaccinations during the COVID 19 Pandemic with guest speak Felman, MD FAAP in August, the recording is now available. View that tinyurl.com/HPV-Vaccination-webinar (enter passcode: JasrC4uE)

IAC Repository of Resources for Maintaining Immuduring the COVID-19 Pandemic

https://www.immunizationcoalitions.org/resourcerepository/

IAC curated this repository for use by healthcare settings, health departments, immunization coalitions, and others in their efforts to maintain immunization rates during the COVID-19 pandemic. Included are links to international, national, and state-level guidance and advocacy materials, talking points, webinars, social media posts, and more.



IKC Updates Emails
Sign up at tinyurl.com/ikc-emails



facebook.com/ ImmunizeKSCoalition



linkedin.com/company/ Immunize-Kansas-Coalition



@ImmKSCoalition



tinyurl.com/IKC-YouTube

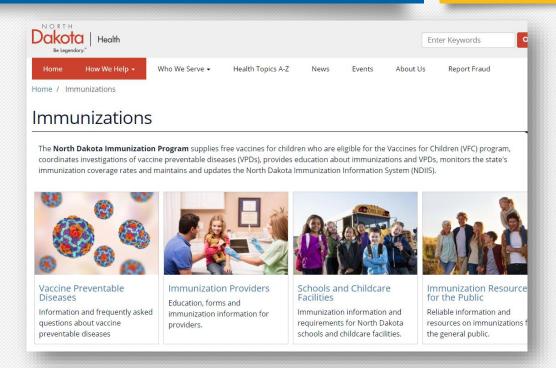
# **IKC Social Media**

### Resources in the Dakotas



### Sioux Falls Area Immunization Coalition

- Website: www.immunizesiouxfalls.com
- Email: <u>izcoalition.sf@gmail.com</u>
- Meeting frequency: Monthly on the first Wednesday of the month at 7 a.m.



### North Dakota Immunization Program

- Website:
  - www.health.nd.gov/immunize
- Phone: (701)-328-3386

# Ideas for Extension Agents

If everyone just works hard enough and offers education programs, the problem will go away!



#### Cooperative Extension's National Framework for Health & Wellness **Engaged University System** Integrated Nutrition, Health, Environment, Agriculture Systems Literacy Issues Education Healthy and and Safe Safe Choices Environments Chronic healthy at every Health Disease stage of life. Insurance Prevention & Literacy Management **Positive Youth** Development for Health KEY Outcome **Public Sector** Social-Ecological Model **Extension Priorities** Partners

Based on the National Prevention Strategy Action Plan, U.S. Department of Health & Human Services

- Integrated Nutrition, Health, Environment and Agricultural Systems
- Health Literacy
- Chronic Disease
   Prevention & Management
- Positive Youth
   Development for Health
- Health Insurance Literacy
- Health Policy Issues Education

### Health Extension: An Interactive Visual Representation

HOVER OVER EACH ELEMENT OF THE MODEL TO LEARN MORE:

ENGAGED INSTITUTIONS

**CORE FUNCTIONS** 

COMMUNITY OUTCOMES

Academic Health Centers

Cooperative Extension Service

> Public Health

Primary
Care/Health
Systems

Technical Assistance

Training & Education

Facilitation & Coaching

Addressing Priority
Health Needs

Linking to Shared Resources

Advocacy & Informing Policy

Build Health Professions Workforce/ Pipeline

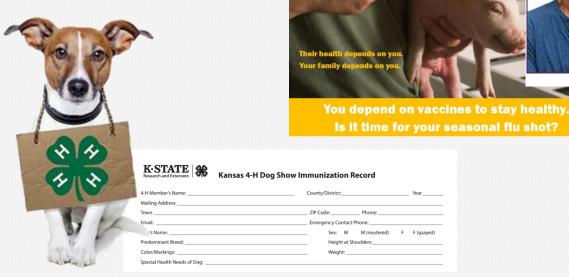
Address Determinants of Health

Develop Health Capacity & Infrastructure

# Incorporate Education into Existing Programs and Frameworks

- Storybook walk
- Lesson series/social media
- 4-H/Ag/Community/FCS programs
- SHICK/Medicare educational classes
- Host a Someone You Love community event
- Add widget to web site







Vaccine Finder 

vaccines

Get protected against vaccine-preventable diseases.

Enter ZIP Code

go powered by HealthMap

SHARE THIS WIDGET

# Policy, Systems, and Environmental Changes in the Community

### Policy

- Provide community health policy education. I.e. Schools can adopt the IKC Model School Exemption Policy
- Extension adopts policy to provide reliable immunization messaging within all program areas.

### Systems

- Extension staff share simple immunization messaging during routine programming
- As Community Health Champions, encourage employers to include immunizations in preventive health and wellness incentive programs

### Environmental

- Employers/Extension host on-site flu vaccine clinics
- Evidence-based immunization materials are made available in community spaces (e.g. literature stands at extension offices, libraries, recreation centers, etc.)

Other ideas coming to mind? Share in the chat!

# Connect with Partners, Train Champions

- Partner with...
  - Schools and school nurses
  - Employers
  - Universities and colleges
  - Libraries
  - Senior centers
  - 4-H Clubs
  - Mom groups
  - Churches
  - Rural/Ag Networks

- Who can be a champion?
  - Anyone! Empower them to speak with friends and family with resources that help them answer questions, share on social media, and start conversations.
  - Extension Agents
  - Moms and Dads
  - Grandparents
  - 4-H Teens
  - Businesses and organizations
  - Local influencers

# Who do you think would make a great partner and/or champion?

Someone to support and share research-based vaccine information, engage the community on this topic, and help people get immunized.





# Questions? Ideas?

www.lmmunizeKansasCoalition.org immkscoalition@gmail.com

### IKC Parents & Families

- What we have...
  - Flyers
  - SurveyMonkey Sign-up
    - www.surveymonkey.com/r/IKC\_Parents
  - Closed Facebook Group moderated by IKC Staff and Members
    - Let's champion vaccines together! IKC Parents +
       Families exists to connect and engage like-minded people who believe vaccines are safe, effective and important in protecting all of us from vaccine-preventable diseases.
- What we need...
  - Parents & families to join!
  - Promising strategy: Local Growth



# Join IKC Parents & Families

#### ...and champion vaccines together!

IKC would like to connect you with likeminded parents who believe vaccines are safe, effective and important in protecting all of us from preventable diseases.

#### Go to surveymonkey.com/r/IKC\_Parents

or scan the QR code to take a 1-minute interest survey letting us know you would like to be part of the group.











www.immunizekansascoalition.org/parents immkscoalition@gmail.com