Unit 3: Sports and Infectious Diseases

Instructional Activities for Ages 2-6

PKIDs’ Infectious Disease Workshop

Made possible by grants from the Northwest Health Foundation, the Children’s Vaccine Program at PATH and PKIDs.
PKIDs’ Infectious Disease Workshop

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Acknowledgements

Producing this workshop has been a dream of ours since PKIDs’ inception in 1996. It has been more than two years since we began work on this project, and many people helped us reach our goal. It’s not done, because it is by nature a living document that will evolve as science makes strides in the research of infectious diseases, but it’s a great beginning.

There are people who’ve helped us whose names are not on this printed list. That omission is not deliberate, but rather from our own clumsiness in losing important pieces of paper, and we apologize.

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The authors specifically disclaim any responsibility for any liability, loss, or risk, personal or otherwise, which is incurred as a consequence, directly or indirectly, of the use and application of any of the contents of this workshop.
Introduction

PKIDs (Parents of Kids with Infectious Diseases) is a national nonprofit agency whose mission is to educate the public about infectious diseases, the methods of prevention and transmission, and the latest advances in medicine; to eliminate the social stigma borne by the infected; and to assist the families of the children living with hepatitis, HIV/AIDS, or other chronic, viral infectious diseases with emotional, financial and informational support.

Remaining true to our mission, we have designed the **Infectious Disease Workshop (IDW)**, an educational tool for people of all ages and with all levels of understanding about infectious diseases. In this workshop, you will learn about bacteria and viruses, how to prevent infections, and how to eliminate the social stigma that too often accompanies diseases such as HIV or hepatitis C.

We hope that both instructors and participants come away from this workshop feeling comfortable with their new level of education on infectious diseases.

The IDW is designed to “train-the-trainer,” providing instructors not only with background materials but also with age-appropriate activities for the participants. Instructors do not need to be professional educators to use these materials. They were designed with both educators and laypersons in mind.

The IDW is comprised of a master Instructor’s Background Text, which is divided into six units: Introduction to Infectious Diseases, Disease Prevention, Sports and Infectious Disease, Stigma and Infectious Disease, Civil Rights and Infectious Disease, and Bioterrorism and Infectious Disease.

For each unit, instructors will find fun and helpful activities for participants in five age groups: 2 to 6 years of age, 6 to 9 years of age, 9 to 12 years of age, 13 to 18 years of age and adults.

We welcome any questions, comments, or feedback you may have about the IDW or any other issue relating to infectious diseases in children.
Dear Parents,

Our class will soon be studying infectious diseases. We will learn about what germs are and ways we can keep from spreading germs. We will also learn that people who have infectious diseases don’t have to be treated differently or singled out just because they have a disease.

The workshop we will use has been created by PKIDs (Parents of Kids with Infectious Diseases), a national nonprofit organization dedicated to supporting families touched by infectious diseases.

Your child may have questions about germs or may come home with new ideas about preventing the spread of germs. Here are a few ways you can stay informed:

**View PKIDs’ website.** PKIDs’ website can be found at www.pkids.org. You may also request information by calling PKIDs at 1-877-55-PKIDS.

**View the instructor’s background text for the Infectious Disease Workshop (IDW).** The primary purpose of this text is to provide teachers with background information on infectious diseases. It is a good text for anyone seeking general information on infectious diseases. The text provides information about specific diseases, methods of disease prevention, and civil rights for those affected by infectious disease. Visit www.pkids.org for a link to the IDW background texts in PDF format.

**View descriptions of the activities we will be doing in class.** Visit www.pkids.org for a link to the activities and handouts in PDF format.

The world becomes smaller every day and germs from near and far continue to threaten our health. It is extremely important to educate our young people, equipping them with prevention methods to protect their health and stop the spread of disease.

As always, please feel free to contact me with any questions!

Sincerely,
PLAYGROUND SAFETY
Coloring Activity

LEVEL
Ages 2-6

OBJECTIVE
Students will identify safe playground behavior.

MATERIALS
Playground Safety Coloring sheets for each student – 1 of each type.

PREP
None

INSTRUCTIONAL COMPONENTS
For each coloring sheet:
1. Have the students identify what activities are occurring in each picture.
2. Talk about whether the activities are safe or unsafe.
   • Which activity is not safe?
   • What could happen to someone who is being unsafe in this way?
   • Could being unsafe cause someone to get hurt and bleed?
   • How are the students in the safe picture being safe?
3. Emphasize how being safe helps us keep from getting cuts that would let germs in and our own germs out.

ASSESSMENT
• Have the students draw an “X” through the unsafe activity.
• Students can then color the safe activity.
My Name: __________________________
My Name: __________________________
My Name: __________________________
My Name: __________________________
“PLAYING IT SAFE” GUESSING GAME

LEVEL
Ages 2-6

OBJECTIVE
• Students will recall things we should always do to keep germs away when playing or when someone gets hurt.
• Students will demonstrate safe things to do when playing.

MATERIALS
• Soap.
• Adhesive bandage.
• Towel.
• Game cube: Construct the cube from a square tissue box by covering the box with paper. On each side, write one of the four rules listed below; on the remaining two sides, put a “?”.

PREP
None

INSTRUCTIONAL COMPONENTS
1. Seat students in a circle.
2. Using the soap, towel, and bandage, review things we should do to keep germs away:
   • If someone gets hurt, get an adult!
   • Wash hands after playing outside.
   • Keep bandages on boo-boos.
   • Never touch someone else’s blood—give them a towel instead.

ASSESSMENT
• Tell students you are going to play a guessing game. The first student will roll the cube and will act out the safety action that turns up. (Students could also do this in pairs.) Students will raise their hand to be called on to guess what action is being demonstrated. Younger students can use the soap, towel, or bandage to help them.
• If a “?” turns up, then students can ask a question about safety or germs.
• After several students have taken turns, you can also try having students think of other safe things to do, and have them show what those things would look like.
WHAT WOULD YOU DO?

LEVEL
Ages 2-6

OBJECTIVE
• Students will recall bodily fluids that should not be touched.
• Students will recall appropriate actions that they should take in the event of a body fluid spill.
• Students will apply this knowledge to body fluid spill scenarios.

MATERIALS
None

PREP
None

INSTRUCTIONAL COMPONENTS
1. Ask students for scenarios in which they’ve seen, touched or been tempted to touch someone’s blood. Talk about those scenarios.
   • “Why might a person feel they should touch someone else’s blood or poop or snot?” (trying to help, curiosity)
   • “Why should we not touch another person’s blood or poop or snot? Remember what we learned about germs and washing our hands.”
2. Quiz the students on what bodily fluids should not be touched. (blood, poop, snot, urine, saliva)
3. “Let’s learn about things we can do to help someone without touching their blood or poop or snot.”
   • Get an adult!
   • Offer towels to a bleeding person or tissues to a person with a runny nose.
   • If you get blood on your clothes, tell an adult and he/she will help you. (The adult should put the clothes in a plastic bag for the parents to deal with—wash, or throw away.)
4. Quiz the students on what things they can do to help someone without touching blood, poop or snot.

ASSESSMENT
“Now let’s pretend. What would you do if…” Offer students scenarios, and have them explain what they would do. They should be applying what they have learned.

1. Steven gets hit with a swing and that makes his loose tooth move. He wants you to stick your hand in his mouth and wiggle his tooth. Should you do it? No. (Explain that hands carry germs and that there may be blood from the loose tooth.)
2. Jane suddenly develops a nosebleed while running on the playground and it’s getting on her
shirt. What should you do? (Get an adult; don’t touch the blood; offer towels in a way that you don’t come into contact with her blood.)

3. You are eating a snack after ice skating with your friend. He takes a bite of a candy bar that you really like, and he offers you a bite. Should you take a bite? (No, because germs are present.)

4. You’re playing soccer and suddenly you collide with someone. He or she bleeds on your shirt. What should you do? (Immediately get an adult; don’t touch the blood on your shirt; take your shirt off as soon as possible and put it in a plastic bag. Your parents will wash it, throw it away or take care of it in some way.)

5. Your parents leave out their nail clippers or razor. Should you use them? (No; everyone should have their own set of grooming tools because blood can get on them, even if we can’t see it.)

6. Someone has fallen on the playground and is bleeding. What should you do? (Call for help; get an adult; don’t touch the blood; offer towels in a way that you don’t come into contact with her blood.)
Bibliography

American Academy of Dermatology
www.aad.org

www.aap.org

Centers for Disease Control and Prevention: *Safe USA Guidelines to Safety in the Home, at School and in Sports*
www.cdc.gov

National Athletic Trainers Association: *Policy on Bloodborne Pathogens*
www.nata.org

www.ncaa.org

National Library of Medicine
www.nlm.nih.gov

U.S. Consumer Product Safety Commission: *Handbook for Public Playground Safety; Skateboards*
www.cpsc.gov
Additional Activities and Resources for Teachers, Students, and Parents

Girl Power: There are No Limits. Information for girls and grownups on a variety of topics, including sports and fitness.
www.girlpower.gov

Discusses Magic Johnson’s battle with HIV.

KidsHealth: Health topics and games for kids and adolescents.
www.kidshealth.org

Red Cross: relevant information on sports safety, including water safety, first aid, and CPR.
www.redcross.org

Addresses children, the appropriate participation of sports at different age levels, and the problems of children with various disabilities, such as asthma, diabetes, etc.