Water, Sanitation and Hygiene
Sermon Guide
A Guide to Help Christian Leaders Educate Congregations and Communities about Water, Sanitation and Hygiene
We must cleanse our soul of the sin through praying for guidance, repenting, and asking forgiveness.
What is a Sermon Guide?

Water, sanitation and hygiene (WASH) are integral components to living a healthy life, and the benefits of improved WASH practices are numerous. Many serious illnesses can be prevented and reduced if people used basic WASH practices, which in turn would significantly reduce maternal, infant, and child mortality. Studies have also shown that improved water and sanitation may also help to increase daily productivity and school attendance.

Faith communities and faith-based organizations (FBOs) have the widest reach of any social institution and are deeply embedded in the life of even the most remote, marginalized communities in Africa. Of all the civil institutions in a given country, faith communities and FBOs have the longest sustainability and were present long before any NGOs or other external agencies established themselves in the community. They not only have longevity but also have the staying power through conflict, war and natural or manmade disasters. According to the Association of Religion, 95% of Africans affiliate themselves with a religion – and this affiliation is an opportunity to mobilize faith leaders to become educators and promoters of health issues that impact the lives of the community. *

Sermon Guide as a Source of Health Information

Before you can share important health information, you need to become familiar with the topic and learn from research conducted by health experts to ensure you give your congregation accurate information. The guide begins with an overview of the problem and resulting health impact, followed by six chapters addressing a specific health message. The chapters include an introduction explaining the health issue, a sample suggested sermon incorporating the health message and questions for discussion. You may choose to use the suggested sermon as it is written or decide to use it as a resource to develop your own.

Ways to Share Health Messages

There are a number of ways you can share health information with your community:

- Include health-related messages in your sermons as demonstrated in this guide
- Host special sessions on health topics in small group meetings
- Develop a religious school lesson based on a chapter in the guide
- Discuss health matters during home visits and counseling sessions
- Partner with other organizations in your community, such as schools and clubs, to share the messages at their meetings
- Develop your own ways to share the messages with your community.

Acknowledgements

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Clean Water Gives Life


We cannot live without water. It is a fundamental part of our lives each day. We need water to drink, grow food, cook, bathe, and keep our animals alive. Our bodies and the food we eat are mostly made up of water. As Christians, we use water to baptize our brothers and sisters in Christ and welcome them into our faith.

The Goal: Safe Drinking Water and Proper Sanitation for All

Water is vital to life. But it must be clean, safe, and free from disease, or it will do more harm than good. We need to protect the water from contamination. We must also practice proper sanitation, which means using latrines or toilets, since diseases carried in human waste can be transmitted through soil. These diseases are caused by germs or parasites that are too small to see, but live in human and animal waste. They can make us sick when they enter our bodies through our skin, mouths, eyes, or noses.

United Nations Secretary General Ban Ki-moon has spoken of the importance of safe drinking water and proper sanitation, saying, “Safe drinking water and adequate sanitation are crucial for poverty reduction, crucial for sustainable development, and crucial for achieving any and every one of the Millennium Development Goals.” The eight Millennium Development Goals, which range from cutting the number of people living in extreme poverty in half to stopping the spread of HIV/AIDS, are ambitious but achievable targets that we can all work together to reach.

Between 1990 and 2010, more than 2 billion people gained access to improved water sources, such as piped water supplies and wells to protect it from contaminants. While this progress means healthier bodies through our skin, mouths, eyes, or noses.

Access to clean water is critical, but it is only part of the defense against diseases carried by water. We must also have proper sanitation facilities to dispose of human waste so that we do not allow diseases to contaminate soil and water and make us sick. The Millennium Development Goal set for sanitation is that 75 percent of the world’s population use improved sanitation facilities by 2015. While progress toward this goal has been made, in 2010, only 63 percent of the world’s population was using proper latrines or toilets, and there were still an estimated 2.5 billion people living without improved sanitation.

The Dangers of Contaminated Water

This guide will cover the most common illnesses carried by unclean water and how you can avoid them by keeping your water source protected from contaminants that cause disease. Two of the most deadly are respiratory illnesses, which are the leading cause of child deaths and another is diarrhea, which kills more children than AIDS, malaria, and measles combined.

Poor Sanitation Spreads Disease

Sanitation, using proper latrines or toilet facilities to safely dispose of urine and feces, is critical to our health. Without adequate facilities, people are forced to defecate in the open, sometimes near where children play or food is prepared. Just one gram of human feces may contain 10 million viruses, 1 million bacteria, 1000 parasite cysts, and 100 worm eggs; all of these can make us sick.

Water contaminated with human waste can transmit diarrhea, cholera, dysentery, typhoid, and hepatitis A. Diseases linked to poor sanitation, poor hygiene, and contaminated water kill 155 people every hour in Africa.

Unclean Water and Poor Sanitation Facts:

- Diarrhea kills more than 3,000 children each day.
- Intestinal worms infect about 10 percent of people in developing nations, and if the case is severe, can lead to malnutrition, anemia, inhibited growth in children, and poor school performance.
- Six million people in the world have lost their sight due to trachoma, a disease caused by poor hygiene.
- Two hundred million people are infected with schistosomiasis, a parasitic infection carried by snails found in water, which causes severe problems for 20 million of those infected. Schistosomiasis can cause a rash, fever, chills, cough, blood in the urine and feces, and muscle aches. It can even affect the brain or spinal cord and cause seizures, paralysis, and spinal cord inflammation.
- The deadly diseases of cholera and typhoid are spread in unsanitary conditions and can be prevented by access to safe drinking water, sanitation, and proper hygiene practices.

What Can We Do to Protect Ourselves from Disease Spread by Contaminated Water?

When simple actions like proper hygiene and sanitation are adopted by all they can help to increase and maintain a healthy life and disease-free environment for individuals, families, and communities.
Fortunately there are steps we can take to protect ourselves, including:

- Using water from protected sources for drinking and cooking,
- Consistent hand-washing after using the latrine and before and after preparing food and eating, and
- Using proper latrines to prevent contamination of soil by human waste.

More specific instructions on how to practice these basic ideas are outlined in the following six messages, which are the basis for the six sermons in this guide.

Six Health Messages Included in the Sample Sermons

1. Hand-washing with soap or ash reduces diseases such as diarrhea, respiratory illnesses, and intestinal worms, as well as eye and skin infections. This is especially important before and after cooking and eating, and after using the latrine.

2. Using a latrine, instead of defecating in the open, can reduce diarrheal infections.

3. Keep communal latrines/home latrines clean and wash hands with soap or ash after every use. Schools with separate latrines for boys and girls reduce girl’s drop-out rates.

4. Keep a clean environment, so mosquitoes and flies cannot breed. Remove standing water inside and outside the home and clean up trash around your home.

5. Drinking water from covered boreholes with a hand pump can reduce bacterial infections, which cause cholera and typhoid, and also reduce parasite infection.

6. Don’t drink or bathe in the same water in which animals pass through or drink from.

How to Use this Guide

As a spiritual leader, you have a unique opportunity to encourage behaviors that protect your congregation’s spiritual and physical health. Teaching people how to avoid deadly diseases spread by contaminated water is one of the most important things you can do to help your congregation stay healthy.

This guide contains six sample sermons based on the messages above. You can use them as examples or material to develop your own. Don’t be constrained to only use this guide in front of your congregations. This tool may also be used as a guide during group meetings (youth, men, or women), counseling sessions, and/or home visits. Questions following each sermon can be used in small groups to help people discuss the facts learned from the sermon and develop a better understanding of the messages.

Chapter I: Cleansing the Body and Spirit

Message: Hand-washing with soap or ash reduces diseases such as diarrhea, respiratory illnesses, and intestinal worms, as well as eye and skin infections. This is especially important before and after cooking and eating, and after using the latrine.

Hand-washing with Soap Stops Disease

Washing our hands with soap (or ash) is very important in staying healthy. Our hands can carry viruses, bacteria, and parasites, organisms that are too small to see, that cause diarrhea, respiratory illnesses, eye and skin infections, intestinal worms, and schistosomiasis, that can result in bladder and rectal bleeding. Using soap or ash breaks down the grease and dirt that carry most of these organisms, or germs, making it easier to dislodge them with rubbing and friction. Washing without soap or ash is not as effective in removing germs and parasites.

Deadly Diarrhea

Diarrhea can be deadly, and it is especially dangerous for children. According to the World Health Organization, diarrhea kills more than 3,000 children every day, and 90 percent of all deaths from diarrhea are among children under the age of 5. Eighty-eight percent of the children who die from diarrhea contracted the disease from poor drinking water, lack of proper sanitation, and poor hygiene. Careful hand-washing can reduce diarrhea cases by up to 45 percent.
DEADLY DIARRHEA

Diarrhea can be deadly, and it is especially dangerous for children. According to the World Health Organization...

- Diarrhea kills more than **3,000 CHILDREN EVERY DAY.** That is more than AIDS, malaria, and measles combined.
- **90% OF ALL DEATHS** from diarrhea are among **CHILDREN UNDER THE AGE OF 5.**
- **EIGHTY-EIGHT PERCENT** of the children who die from diarrhea contracted the disease from poor drinking water, lack of proper sanitation, and poor hygiene.
- Careful hand-washing can reduce diarrhea cases by up to **45 PERCENT.**

Respiratory Illnesses

Respiratory illnesses, such as pneumonia, are the leading cause of death in children. We spread (respiratory) illnesses when we touch surfaces, such as door knobs and handles, in common areas and leave germs. These germs can live for two hours or longer on these surfaces and spread disease to others when they touch the same surface and touch their eyes, mouth, and nose. Evidence suggests that hand-washing after using the latrine and before eating could cut the infection rate by about 25 percent in everyone and by 50 percent in children under 5 years of age.

Intestinal Worms

Intestinal worms, also known as soil-transmitted helminths, can cause diarrhea, abdominal pain, and overall weakness, inhibit our ability to work, and keep children from learning and growing as they should. People infected with intestinal worms carry the parasite’s eggs in their feces. The soil and water in the area where they live can become contaminated with the eggs if waste is not disposed of properly. Children playing outside can get the eggs on their hands and infect themselves if they eat or put their hands in their mouths before they wash them. Washing hands with soap or ash can remove the eggs before they are ingested. In addition to hand-washing, it is very important to wear shoes in order to reduce the potential of eggs burrowing into the feet.

Eye and Skin Infections

An eye infection known as trachoma is the leading preventable cause of blindness in the world. Over time, trachoma causes the eyelids to turn inward, and the eyelashes rub the eye and scar the cornea. Trachoma is caused by a germ, or bacteria, and is spread from person to person by the hands or clothing. Washing hands and faces can help stop the spread of the disease.

Impetigo is another painful skin infection that is especially common among children. It causes redness and small blisters that crust and erode. Impetigo is very contagious and can be spread when someone touches the infected spot on the skin of a person with the disease. Washing thoroughly with soap or ash can help stop the spread of scabies, impetigo, and other skin infections.

It is important that the individual who is ill or suspected to be ill with any of the above described illnesses is brought to the local health care facility to receive appropriate and timely care.

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When to Wash Your Hands

The critical moments to wash your hands with soap or ash are after using the latrine or cleaning a child’s bottom, and before handling food. That way any germs or parasites present in feces will be removed immediately, and we will not transmit any diseases from our hands to our mouth when we eat, or to the food we prepare for others.

How to Wash Your Hands

Follow these steps to get hands clean and kill germs that cause disease:

1. Cover wet hands with soap or ash
2. Scrub all parts of the hands, including palms, backs of the hand, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

To help people get a good idea of how long 20 seconds is, find a short song that takes 20 seconds to sing, or memorize a favorite Bible verse that lasts for 20 seconds when you say it out loud. You can also just recommend people count slowly to 20. Whatever you choose, make sure it lasts about 20 seconds and use it each time you wash your hands.

Remember, washing your hands with soap or ash, especially before handling food and after using the latrine or cleaning a child will help stop the spread of disease, and can save lives.

Sermon Starter 1: Cleansing the Body and Spirit

Scripture

And such were some of you. But you were washed, but you were sanctified, but you were justified in the name of the Lord Jesus and by the Spirit of our God. (1 Corinthians 6:11)

“Wash me thoroughly from my iniquity, and cleanse me from my sin.” (Psalm 51:2)

“I will sprinkle clean water on you, and you shall be clean; I will cleanse you from all your filthiness and from all your idols.” (Ezekiel 36:25)

How can we keep a pure heart and spirit? We are human and will make mistakes. But, because God’s love for us was so great, He gave His only Son to die so that we may be forgiven for our sins. When we sin, we must admit to ourselves and to God that we have sinned and ask for forgiveness. We must experience a cleansing of our spirit.

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Sin and the Corinthians

When the apostle Paul wrote to the people of the church in Corinth, he was concerned because factions had developed in the church and the members were not keeping themselves clean from selfishness and immorality.

Paul had established the church on his second missionary journey to the city of Corinth and ministered to the people there for more than a year. He then returned to Israel, and during his absence, the members became divided. Some people stayed loyal to Paul, others professed loyalty to Apollos and wanted little to do with the rest of the church. Some members claimed loyalty to Christ exclusively, and yet another group claimed a special allegiance to Peter. In his letter, Paul expressed his concerns...
“Cleansing our bodies is just as important to our physical health as cleansing our spirit is to our spiritual health.”

about the immorality, envy, strife, and the divisions in the church.

After listing his concerns and the sins he was aware of among the church members, Paul said, “...But you were washed, but you were sanctified, but you were justified in the name of the Lord Jesus and by the Spirit of our God.” (1 Corinthians 6:11)

Those were very important words: “You were washed.” Through God’s grace, and through spiritual cleansing, the believer is set free from his sin. But when he said those words, Paul did not mean that Christians do not bear responsibility for cleansing themselves of sin and trying to avoid acting wrongly in the first place. In the next part of his letter he reminds the church members of their responsibility to behave morally.

The point is we must do the best we can to avoid sin, and to confess our sins to ourselves, God, and anyone we have injured. We must cleanse our soul of the sin through praying for guidance, repenting, and asking forgiveness.

David Asks for Forgiveness

In the Book of Psalms, David expresses regret for his sins and his need for spiritual cleansing. He had committed horrible acts. He had an adulterous affair with Bathsheba and in his desperation to hide the affair, he had Bathsheba’s husband, Uriah, killed. So he added to one horrible sin with another.

David recognized the severity of his acts, accepted responsibility, and repented. In the Book of Psalms, he asked for forgiveness and pleaded to be cleansed, saying “Wash me thoroughly from my iniquity, and cleanse me from my sin.” (Psalm 51:2) David has asked forgiveness and seeks spiritual cleansing. Before he can continue on and live a virtuous life, he must be washed and cleansed of his sins.

We also find reference in the Book of Ezekiel to the importance of spiritual cleansing. Through the prophet Ezekiel, God assured the Israelites that He would bring them out of other lands back to the Promised Land, and that He would renew them through spiritual cleansing. God promised, “I will sprinkle clean water on you, and you shall be clean; I will cleanse you from all your filthiness and from all your idols.” (Ezekiel 36:25)

Hand-washing for Protection from Disease

Being vigilant in cleansing our bodies is just as important to our physical health as cleansing our spirit is to our spiritual health. We cannot avoid getting our hands dirty; it is part of life. Unfortunately, there are viruses, bacteria, and parasites that can live in the soil and on surfaces in our homes, where we work, and anywhere people gather. These viruses, bacteria, and parasites are too small for us to see, but they are living organisms that can all make us sick, and some of the diseases can be deadly.

Washing these germs and parasites off our hands with soap or ash is one of the most important steps we can take to protect ourselves from the diseases they cause, which include respiratory illnesses, diarrhea, intestinal worms, and eye and skin infections. Respiratory illnesses, such as pneumonia, are very dangerous. They are the leading cause of death in children. Diarrhea also kills many children. It kills 3,000 children in the world every day.

Intestinal worms can make us weak and unable to work, and can keep children from growing and learning as they should. Intestinal worms also enter our bodies through our feet, so it is very important to wear shoes. And eye infections can steal our sight while skin infections can be very painful and interfere with our lives.

Critical Moments: After Using the Latrine or Toilet and Before Food Preparation or Eating

There are two times where it is very important that we always wash our hands with soap or ash. First, every time you use the latrine or toilet, or clean a child after using the latrine, you must wash your hands with soap or ash. That way any germs or parasites present in human waste will be removed immediately.

The second critical time you must always wash your hands is before handling food, whether you are cooking for your family or eating. You don’t want to infect the food and then make yourself or your family sick.

But you cannot just quickly dip your hands in water and expect the germs to be removed. You must use soap or ash, and you must scrub your hands thoroughly. To get hands truly clean, follow these important steps:

1. Cover wet hands with soap or ash.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (don’t use still water).
4. Dry either with a clean cloth or by waving in the air.
Pause for Reflection and Spiritual and Physical Cleansing

To help you get in the habit of washing long enough to remove germs, find a passage to recite or verses of a song to sing that takes 20 seconds. Sing the verses of an uplifting song, like Jesus Loves Me, and count how many times you must sing them to fill 20 seconds.

Reciting our three verses from today’s sermon about the Corinthians, David and Ezekiel takes about 20 seconds. Memorize them, or other verses you find helpful and uplifting. You can even use the time you must stop and wash your hands as a good time for reflection. You may look forward to these quiet moments for peaceful thought. This will help you make sure you remember to do it, and that you wash long enough with soap or ash to kill and remove germs and parasites.

Figure out what helps you remember to wash your hands with soap and to keep washing thoroughly for 20 seconds. You can always just relax and count slowly to 20. You will be protecting your spirit as you pause for reflection, remind yourself of God’s love, the power of forgiveness, and your responsibility to avoid sin, and you will protect your body and your loved ones from deadly diseases.

However, if you feel that you or a member of your family may have contracted an illness please visit your local health care facility for timely and appropriate care.

Three Verses for Example

“But you were washed, but you were sanctified, but you were justified in the name of the Lord Jesus and by the Spirit of our God.” (1 Corinthians 6:11)

“Wash me thoroughly from my iniquity, and cleanse me from my sin.” (Psalm 51:2)

“I will sprinkle clean water on you, and you shall be clean; I will cleanse you from all your filthiness and from all your idols.” (Ezekiel 36:25)

Discussion Questions from Sermon 1

Question 1: What diseases can we spread when our hands are not clean? How can the diseases exist on our hands?

Response: Respiratory illnesses, like pneumonia, measles; eye and skin infections; stomach and intestinal infections, and parasites can all be spread by unclean hands. The diseases are caused by tiny organisms called germs that live on our hands and are too small to see.

Question 2: Why are these diseases dangerous?

Response: Pneumonia and other respiratory illnesses are the leading cause of death in children. Diarrhea is also very dangerous and kills 3,000 children in the world each day. Intestinal worms make people very weak and can keep children from growing and learning as they should. Eye infections can cause blindness, and skin infections can be very painful. Respiratory and diarrheal diseases can lead to debilitation and death in adults also.

Question 3: How do dirty hands spread these diseases?

Response: Some of these diseases are caused by germs, either viruses or bacteria. Other diseases are caused by parasites. When we touch unclean surfaces or fecal matter, we can pick up germs and parasite eggs. If we do not wash our hands immediately, we can become sick ourselves or transmit these germs and eggs to other people.

Question 4: When should we wash our hands?

Response: Wash your hands with soap or ash after using the latrine or cleaning a child’s bottom, and before handling food. That way any germs or parasites present in feces will be removed immediately, and you will not transmit any diseases from your hands to your mouth while eating, or to the food you prepare for others.

Question 5: How should you wash your hands? Do you have to use soap?

Response: Yes, you must use soap or ash to effectively remove germs. Follow these 4 steps:

1. Cover wet hands with soap or ash, if soap is not available.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

Question 6: How else can we contract intestinal worms besides by ingesting the parasite eggs?

Response: Yes, you must use soap or ash to effectively remove germs. Follow these 4 steps:

1. Cover wet hands with soap or ash, if soap is not available.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

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2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

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Response: Intestinal worms can enter the body through the feet. We must always wear shoes.

Chapter 2: Building Protections for Spirit and Body

Message: Using a latrine, instead of defecating in the open, can reduce diarrheal infections.

Use a Latrine to Stop Spread of Disease

A person should use a sanitary latrine every time he or she needs to urinate or defecate. Human waste can carry many diseases that can easily be transmitted to the soil and water. If people relieve themselves in the open, in ponds, rivers, or lakes, or anywhere near homes or where children play, disease can spread as the germs and/or parasites found in their urine and/or fecal matter contaminate drinking water and the hands of people who later ingest them when they eat or touch their faces. Flies and other insects will also land on human waste and transmit the disease-causing agents to food and other surfaces. Some parasites can enter into the body through the soles of the feet. Shoes should always be worn.

Diarrhea is a symptom of many of the diseases caused by germs and parasites carried in human waste. Diarrhea is the passage of three or more loose or liquid stools per day, or more frequently than is normal for the person. It is usually caused by gastrointestinal infection, which can be caused by a variety of bacterial, viral, and parasitic organisms present in contaminated drinking water or food, often spread through contact with people. Severe diarrhea causes the person to lose excessive amounts of fluid and can be fatal, especially in young children or people who are malnourished or have impaired immunity. Diarrhea kills more than 3,000 children each day, more than AIDS, malaria, and measles combined.

It is critical that a pit latrine be located downhill from a water source so waste from the latrine will not contaminate the water. Experts recommend the pit latrine be located at least 30 meters from a water source and the pit should be dug at least two meters from a water source and from the home. It is important to visit the local health care facility for timely and appropriate treatment, which usually includes what is called oral rehydration therapies. These therapies generally include drinking a solution known as oral rehydration salts solution and supplementing with zinc, which helps to replenish vital sources of minerals into the body that had been depleted due to the diarrhea.

To protect communities from diarrhea, it is necessary to prevent the soil and water sources from being contaminated by the germs carried in human waste. Latrines or toilets are the best defense against contamination. Studies show that improved sanitation reduces death rates from diarrhea by one-third. In addition, providing people with privacy for the personal act of relieving themselves and keeping human waste separate from where residents work, cook, and play also helps maintain dignity and pride in a village.

Types of Latrines

Below are five examples of different types of latrines. Not all types are appropriate for all areas and soil conditions. For example, if an area has rocky soil or a high water table, above-ground latrines with removable tanks will be necessary so as not to risk water contamination. Each type of latrine has advantages and disadvantages, and community leadership will have to conduct research and come together to decide which type is best for the community.

Simple Pit Latrine

The simplest and least expensive type of latrine to build is a simple pit latrine, which is generally only used by a household. A pit is dug in the ground and covered with a slab or floor. The slab has a hole through which excreta falls into the pit. A seat or squat hole with footrests can be installed, and there should be a lid to cover the hole. The latrine should be protected with a shelter and located away from water sources and from the home.

It is critical that a pit latrine be located downhill from a water source so waste from the latrine will not contaminate the water. Experts recommend the pit latrine be located at least 30 meters from a water source and the pit should be dug at least two meters above the water table in an area that is well drained.

Arbor Loo

A disadvantage of simple pit latrines is that they produce unpleasant smells, and attract flies and give them a place to breed.

The Arbor Loo is a recent enhancement of the simple and inexpensive pit latrine. It is helpful to the environment because it will eventually become a site for a fruit tree. To create an arbor loo, dig a pit about 80 centimeters deep and 60 centimeters in circumference and add dry leaves to the bottom. Place a concrete slab over the opening. After each use, add a mixture of soil and ash to encourage soil composting, reduce smell, and discourage insects from breeding.
To add privacy, a simple external structure can be added. xxxvii

A household uses the arbor loo for one year, and then the slab is removed, the pit is topped with good topsoil, and a fruit tree seedling or other crop is planted in the topsoil. The roots grow down into the pit and take up rich nutrients.

Ventilated Improved Pit (VIP) and Reed’s Odorless Earth Closet Latrines

The Ventilated Improved Pit and the Reed’s Odorless Earth Closet are types of pit latrines that use a vent pipe to remove the smells and flies from a latrine. They are similar to the simple pit latrine, however, the pit of a Reed’s Odorless Earth Closet is completely separated from the slab and connected to it by a chute, while the pit in a Ventilated Improved Pit is generally located directly under the slab cover. xxxviii

Human waste is collected in a pit which has a vent pipe covered with a fly-proof screen at the top. In these latrines, air circulates down the hole or chute, into the pit and up through the vent pipe, which reduces odors in the shelter. No cover should be placed over the squat hole or seat so that air can flow freely into the shelter and the pit. xxxix

The shelter for the latrine must be kept semi-dark so flies will be attracted to the light from the vent pipe and become trapped. xl These latrines improve the problems of odor and flies common with simple pit latrines, but since they must be kept partially dark to help remove flies, people may be discouraged from using them. They also require more maintenance than a simple pit latrine to make sure the vent pipe is in good working order. Obtaining a durable fly screen for the vent pipe may also be a problem with the Ventilated Improved Pit and the Reed’s Odorless Earth Closet. xli

Composting Latrine

A composting latrine may be appropriate for areas where human waste is used as fertilizer along with...
waste from food preparation. Urine should be collected separately because the material in the latrine must be kept as dry as possible.xiii To construct a composting latrine, two shallow pits or vaults are dug for human waste.xiv The pits must be constructed above ground for proper ventilation and easy access to remove the compost, which will make it necessary to have steps or a ramp leading up to the latrine.xv

When one pit becomes full, it is covered with soil for at least a year for the excreta to break down and become less harmful, while people use the other pit to relieve themselves. After a year, the dry compost is dug out of the first pit and the pit can be used again as a latrine. Organic waste should be added daily to help the excreta break down, and ash should be added to help remove odors.xvi

Aquaprivies

The aquaprivy is a tank filled with water where the waste falls. A drop pipe reaches below the surface of the water in the tank to prevent odors from escaping. The tank must be watertight to keep the groundwater from being contaminated and should be emptied approximately every three years. The aquaprivy does not have problems with flies or odors and it can be connected to a sewage system if the community later decides to construct one. However, aquaprivies may be more costly to build than other latrines.xvii

Septic Tanks or Sewage Treatment Systems

In addition to the types of latrines discussed above, communities may consider using septic tanks or sewage treatment systems. Both of these systems are considerably more costly than the latrines described above and require large amounts of water to function properly.

Whichever type of latrine your community chooses, using a sanitary latrine for defecation is a step in the right direction to maintain village cleanliness, establish self pride and decrease the chance of contracting diarrheal infections.

Sermon Starter 2: Building Protections for Spirit and Body

Scripture:

“Pure and undefiled religion before God and the Father is this: to visit orphans and widows in their trouble, and to keep oneself unsptotted from the world.” (James 1:27)

“If a brother or sister is naked and destitute of daily food, and one of you says to them, ‘Depart in peace, be warmed and filled,’ but you do not give them the things which are needed for the body, what does it profit? Thus also faith by itself, if it does not have works, is dead.” (James 2:15-17)

The Bible gives us guidance on how to live our lives and stay spiritually healthy. Obeying the word of God and keeping a pure heart is not easy, but it is necessary for a productive and positive life. In his epistle to the believers, James tells us we arrive at spiritual purity and undefiled religion in two ways; purity requires performing good and unselfish deeds that help others, and avoiding evil and selfish thoughts.

James writes: “Pure and undefiled religion before God and the Father is this: to visit orphans and widows in their trouble, and to keep oneself unsptotted from the world.” With his first command to visit orphans and widows in times of need, he challenges us to be actors in our world and help the people around us. James goes on to instruct us that “faith without works is dead.” He asks us when we see a brother or sister who is without food, do we tell that person to go in peace and be warmed and filled without providing the things he or she needs? If so, we have not accomplished anything and are not fulfilling the call to serve.

Many of us are probably guilty of listening to the problems of a friend or family member but failing to act to do anything to help. We can go to church, study the Bible, and seem to be living faithfully, but as James tells us, “faith without works is dead.” He is instructing us to act to help others around us, in our families and our communities. In order to fulfill this calling, we must stay physically healthy, which involves protecting ourselves, our families, and our communities from disease, which we will discuss shortly.

In the second part of verse 27 in chapter 1, James tells believers to keep themselves unsptotted from the world. Here, he is referring to spiritual purity, but we can make an important connection to physical cleanliness, for we cannot serve God and our family if we are ill as a result of diseases spread through unclean environments.

To remain healthy and free from disease, we must maintain physical cleanliness to fulfill our missions here on earth. One of the most important ways to stay healthy is to keep our environment clean and uncontaminated from germs and parasites that cause diarrhea. Diarrhea, which is having liquid or loose

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stools, can dehydrate us. It can make us very weak and can even be fatal, especially for young children or people who are already weak from another illness.

To protect our families and communities from diarrhea, it is necessary to prevent the soil and water from being contaminated by germs and parasites carried in human waste that cause diarrhea. Latrines or toilets are one of the best defenses against contamination. We know from research that using toilets and latrines reduces death rates from diarrhea by one-third.

Although illness can strike anyone at any time and we need to visit the local health care facility for treatment, there are things we can do to stop diseases caused by organisms, known as germs or parasites, which are too small to see and spread from one person to another. Just as we can try to keep our spirit “unspotted from the world,” we must keep our environment “unsoiled from disease.” Using latrines should be a very important part of our strategy to avoid germs and parasites that cause disease.

A person should use a sanitary latrine every time he or she needs to defecate. If people relieve themselves in the open, in ponds, rivers, or lakes, or anywhere near homes or where children play, disease can spread as the germs or parasites contaminate drinking water and the feet or hands of people who later ingest them when they eat, drink, prepare food, or touch their faces. Flies and other insects will also land on human waste and transmit the disease-causing agents to water, food, and other surfaces.

There are many different types of latrines or toilets. They keep us healthy by keeping human waste away from where we live. If you have access to them, you must use them and keep them clean. (If a community does not have latrines, community leaders should work with local health officials to install them.)

Remember James’ words that pure and undefiled religion has two components: actions that show our faith, and remaining unspotted or unsoiled from the world. We must remember to match our faith with good actions and try to keep our spirits pure and free from arrogance and hypocrisy. Just as we keep our spirits unspotted from the world, we should keep our homes and environments unsoiled by waste that can carry harmful diseases.

Discussion Questions from Sermon 2

Question 1: How can human waste make a person sick?

Response: Human waste carries disease causing organisms that are too small to see, known as germs and parasites.

Question 2: Why is it dangerous for people to relieve themselves wherever they feel the need?

Response: If people defecate or urinate in the open, in ponds, rivers, or lakes, or anywhere near homes or where children play, disease can spread as the germs or parasites contaminate drinking water and the feet or hands of people who later ingest them when they eat, drink, prepare food, or touch their faces. Flies and other insects will also land on human waste and transmit the disease-causing agents to water, food, and other surfaces.

Question 3: What is diarrhea and why is it dangerous?

Response: Diarrhea is the passage of three or more loose or liquid stools per day, or more frequently than is normal for the person. Severe diarrhea causes the person to lose too much fluid and can be fatal, especially in young children or people who are malnourished or have impaired immunity. Diarrhea kills more than 3,000 children each day.

Question 4: What causes diarrhea?

Response: Diarrhea usually results from stomach and/or intestinal infections, which can be caused by a variety of bacteria, viruses, and parasitic organisms. These germs or parasites are present in drinking water or food that has been contaminated by human waste. People become infected by the germs when they consume the contaminated water or food. Germs can also be present on unwashed hands and can be spread from person to person through contact.

Question 5: What can we do to avoid the spread of infections that cause diarrhea?

Response: To help stop the spread of germs and parasites that cause diarrhea, use a sanitary latrine or toilet every time, and wash your hands afterwards and before eating or preparing food.

Question 6: What can you do if your community does not have latrines?

Response: You can work with community leaders and public health officials to help educate community members on the need for latrines and carry out research on the different types of latrines available and decide which type is right for your community.
Chapter 3: Working Together to Glorify God

Message: Keep communal latrines/home latrines clean and wash hands after every use. Schools with separate latrines for boys and girls reduces girls’ drop-out rates.¹

Gaining access to a latrine with hand-washing facilities means that there is no direct contact with feces and a reduction in contamination of local water supplies. By supplying safe latrines, girls will be more inclined to stay in school after the onset of menstruation. To ensure latrine use, it is beneficial if the students are involved in identifying latrine type and placement.

Latrine Use Reduces Disease

Human waste carries germs and parasites that cause diseases that can be deadly, such as cholera, typhoid, schistosomiasis (a parasitic infection carried by snails and found in water), and diarrhea. Intestinal worms and eye and skin infections are also caused by parasites and germs found in feces. Some people believe the waste of a child or baby is harmless, but this is not true. The excrement of a child contains just as many germs and parasites as that of an adult.² If people defecate in the open or in or near water, these disease-causing agents can spread to people. Rain washes the germs from soil into wells and streams and contaminates the water used for drinking.³

Proper latrine use greatly reduces contamination from human waste. Research shows that improved sanitation, meaning the use of latrines, reduces diarrhea deaths by one-third.⁴ In order to encourage people to use the latrines and to keep them functioning properly, they must be kept clean. Latrines that are dirty are less likely to be used.

Latrines at School

Many girls drop out of school when they begin menstruating, partly because there are either no toilet facilities or latrines at the school at all, or the ones that exist must be shared with boys. Girls will feel more comfortable attending school knowing they have privacy for personal hygiene.

If possible, girls and boys should participate in separate discussions to select the types of latrines to be built and where they will be placed (based on...
Water tables and distance from the school), as this involvement can be critical in determining whether the latrines will be used. Discussions should enable girls or boys to speak freely and privately about their personal hygiene concerns separate from the involvement of the other sex.

If boys and girls must use latrines located in the same structure, signs should be placed at the entrance that clearly designate which latrine is for boys and which one is for girls.

Keeping Latrines Clean

Installing latrines is an important first step in reducing illness spread from contact with human waste, but they must also be kept clean and maintained so people will use them. Germs can live on surfaces in the latrine and unpleasant odors and appearances may discourage their use.

The following steps can keep the latrine clean and encourage people to use it:

- Make sure there is no trash on the floor
- Clean the walls, floor, and door of the latrine regularly
- Make sure any cracks in the walls, floor, door, and roof are repaired
- Make sure the latrine is properly ventilated
- Pour lime down the latrine regularly to kill mosquitoes
- Keep soap and a water supply near the latrine for hand-washing.

In addition to cleaning the latrine, the following maintenance inspections should be performed at least monthly:

- Inspect the vent pipe and the fly screen on the latrine vent to make sure they are not corroded or damaged.
- Make sure rain water drains away from the latrine.
- Make sure pit latrines are not full.

Although the responsibility can be shared equally among community or household members, it should be clearly defined how that responsibility for cleaning latrines will be delegated to ensure proper follow through.

Wash Hands after Latrine Use

It is very important to wash hands with soap or ash after activities such as using the latrine or cleaning a child’s bottom. That way, any germs or parasites present in feces will be removed immediately, and diseases will not be transmitted from the hands to the mouth when food is eaten or prepared.

Sermon Starter 3: Working Together to Glorify God

Scripture

“For as we have many members in one body, but all the members do not have the same function, so we, being many, are one body in Christ, and individually members of one another. Having then gifts different according to the grace that is given to us, let us use them…” (Romans 12:4-6)

“The way of a fool is right in his own eye, but he who heeds counsel is wise.” (Proverbs: 12:15)

“Who may ascend into the hill of the Lord? Or who may stand in His holy place? He who has clean hands and a pure heart, Who has not lifted up his soul to an idol, Nor sworn deceitfully.” (Psalm 24:3-4)

In the years following Jesus’ death, the apostle Paul traveled throughout the Roman Empire on three journeys spreading the message of Christianity. Eventually Paul was captured in Jerusalem, falsely accused, and imprisoned for two years. But before his capture, Paul spent time in the city of Corinth, where he wrote a very important letter to the Christians in Rome. These believers did not know Paul, but he wanted to reach out to them and share his wisdom. One of the pieces of guidance he shared was that although their spiritual gifts were different than the gifts of others, they were no more or less important and equally needed for the church to function. This is true in our communities today; we have differing perspectives and knowledge which is valuable depending on our age, gender, profession, talents, and other traits that make us who we are.

Paul tells the Romans that the members of the church function together as the different parts of the same body. Our foot serves a different function than our hand; our eyes serve a different purpose than our ears. They all come together to make one body. As Paul writes, “For as we have many members in one body, but all the members do not have the same function, so we, being many, are one body in Christ, and individually members of one another. Having then gifts different according to the grace that is given to us, let us use them…” (Romans 12:4-6)

Just as we do today, the Romans of Paul’s time all had their own spiritual gifts. And just as Paul counseled the Romans in his letter, we should not think of ourselves as more important than other members of the church, our neighbors, or our family.

Although we may experience our faith and our spiritual gifts differently, we all work together in the
church to glorify God. It is the same in our schools. Our sons and daughters all have gifts, and the participation of our daughters in school is just as important as the participation of our sons. Girls can do as well as boys in school if they are given the right environment, opportunities, and facilities. Part of having the proper facilities at school includes a healthy and clean environment. All children should have access to sanitary latrines to keep human waste separate from the areas where the children play and learn. Harmful germs and parasites that we cannot see and carry disease are present in human waste and can make people sick if they contaminate the soil. Latrines and hand-washing are our best defenses from these diseases. Proper latrine use greatly reduces contamination from human waste. Research shows that the use of latrines reduces deaths from diarrhea by one-third.6

As girls start to experience their monthly cycles, they will have a special need for privacy for personal hygiene. Unfortunately, many girls drop out of school when they begin menstruating, often because their schools either have no latrines at all, or the girls lack privacy and must share the latrines with boys. It is especially important that girls have access to latrines, and, if possible, they should be latrines that are designated for the use of girls only, with separate facilities for boys. If separate structures are not possible, and latrines are contained in the same structure, the latrines should be clearly marked with signs indicating which one is for boys and which is to be used by girls.

Girls should not be prevented from sharing their spiritual and intellectual gifts at school simply because they do not have access to proper sanitation. Girls will feel more comfortable attending school knowing they have privacy for personal hygiene. Having the facilities is the first step, but girls must also be comfortable using them to make them effective. If possible, girls and boys should participate in separate groups when selecting the types of latrines used and where they will be placed, as this involvement can be critical in determining whether the latrines will be used.7 Girls should be able to speak freely and privately about their personal hygiene concerns separate from the discussion with boys.

How would a man know where to best place a latrine for use by a girl? Sometimes it is difficult, but we must be humble and listen to the advice of those who know about a subject we may know nothing about. In this case, a girl or female teacher has more knowledge of the type of latrine that would make her more comfortable and help encourage her to attend school. As the Bible tells us in the book of Proverbs, “The way of a fool is right in his own eye, but he who heeds counsel is wise.” (Proverbs: 12:15) We must listen to the counsel of the young girls and female teachers, who can give us guidance as we determine which type of latrine and how to place that latrine to encourage its use at school. Keeping our daughters in school to help them use their spiritual and intellectual gifts to fulfill their potential should be our goal.

Once we have the proper sanitation facilities for both boys and girls at school, and facilities for our households, places of worship, and businesses, we must keep them clean and maintained. We know we will be more likely to use the facilities if they are pleasant, and keeping germs and parasites out of the latrines means keeping them clean. We should set a schedule for who is going to clean the latrines; there is no reason the same person must do it all the time. Just as we share our spiritual and intellectual gifts with others to fulfill our roles in the church, we must also share responsibility for chores to keep our schools, households, churches, and businesses operating.

When we clean the latrine, we must make sure there is no trash on the floor, and clean the walls, floor, and door of the latrine. We must also repair any cracks in the walls, floor, door, and roof, and make sure the latrine is properly ventilated. We must control mosquitoes with lime or another substance. The latrine vent should have a properly functioning fly screen. And finally, while it is very important to keep the latrine clean, it is critical that we wash our hands after each time we use the latrine. So, when performing checks on the latrine, make sure there is soap or ash and a water source near the latrine for people to wash their hands.

Hand-washing with soap or ash will remove any germs or parasites that may have gotten on your hands while using the latrine. It is important to remove them as soon as possible, before they have an opportunity to infect you or someone else when you touch your face, the hands of someone else, or prepare food.

In the Book of Psalms, David equated physical cleanliness with spiritual purity. David wrote, “Who may ascend into the hill of the Lord? Or who may stand in His holy place? He who has clean hands and a pure heart, Who has not lifted up his soul to an idol, Nor sworn deceitfully.” (Psalm 24:3-4) In these words, clean hands are a symbol for the spiritual purity needed for a fulfilling Christian life. But clean hands are also necessary for physical health. To remove germs that make us sick, we must wash our hands with soap or ash after every time we use a latrine.

Latrine use is necessary to keep germs and parasites away from where people live, cook, work and play. These facilities must be kept maintained and clean in order to encourage people to use them. Having a private facility to relieve oneself and for personal hygiene for girls is crucial to their education and encouraging them to stay in school where they may develop and share their spiritual and intellectual gifts.

**Discussion Questions from Sermon 3**

**Question 1:** Why is it important to keep a latrine clean?

**Response:** It is important to keep a latrine clean to remove any germs that may be present on the surfaces of the latrine and to reduce unpleasant odor and encourage its use.

**Question 2:** What do we need to do to keep the latrine clean?

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Response: The following steps can keep the latrine clean and encourage use:\n\begin{itemize}
  \item Make sure there is no trash on the floor
  \item Clean the walls, floor, and door of the latrine regularly
  \item Make sure any cracks in the walls, floor, door, and roof are repaired
  \item Make sure the latrine is properly ventilated
  \item Pour lime down the latrine regularly to kill mosquitoes
  \item Keep soap and a water supply near the latrine for hand-washing
  \item Cover the latrine vent with a fly screen
\end{itemize}

Question 3: What must we do as soon as possible after using the latrine? Why?

Response: We must wash our hands with soap or ash immediately after using the latrine. Hand-washing with soap or ash removes germs and parasites that can make us sick and keep us from infecting ourselves or others.

Question 4: Why is it important for girls to have access to separate latrines at school?

Response: When girls begin to menstruate, they need private facilities for personal hygiene. Many girls drop out of school when they start their monthly cycles, often because their schools do not have latrines, or have latrines they must share with boys.

Question 5: How can we make girls more comfortable and encourage them to use latrines at school?

Response: Involving girls in the decision of what type of latrine to install at a school, and where that latrine should be placed can make them more comfortable and encourage them to use the latrine.

Question 6: Why is it important for girls to stay in school and complete an education?

Response: We all have important spiritual and intellectual gifts. If girls stay in school, they can use these gifts and perform just as well as boys and will have much to offer their families and communities.

Chapter 4: From Our Households to Our Communities

Message: Keep a clean environment, so mosquitoes and flies cannot breed. Remove standing water inside and outside the home and clean up trash around your home.

Standing water is needed to produce mosquitoes. Covering water containers in the home and rain water roof catchment containers when it is not raining, and draining any standing water will prevent mosquito breeding, and thus reduce the transmission of water-borne infections. A hygienic environment, clean water, and adequate sanitation are key factors in preventing water-borne infections as well as opportunistic infections associated with HIV/AIDS. Mosquitoes carry diseases that can be fatal, such as malaria and dengue fever. Because mosquitoes need standing water to breed, we can reduce the mosquito population in our home and immediate area by limiting their ability to reproduce. Female mosquitoes can lay 50 to 200 eggs at a time, which are laid directly on the water and float on top. Keeping containers of water in the home covered prevents mosquitoes from laying their eggs in the water and also keeps dirt, food particles, and other substances that may carry disease out of the water.

Water storage vessels that have wide openings, such as buckets and pots, from which water is removed using a hand-held cup or scoop increases the chance that disease-causing germs present on the hands, scoop, or cup could be introduced into the water. Where possible, containers should have spouts for pouring or a tap for dispensing water. People should also limit areas outside of their homes where mosquitoes can breed. They should remove all items that could collect water, including any trash, buckets, tires, pots, and cans, and make sure water containers that store water for home use have lids and remain covered. Mosquitoes do not need much water to breed, and even shallow puddles are sufficient. Rain water roof catchment containers should be covered when it is not raining.

In addition, the inside and outside of homes should be kept clean and clear of garbage as much as possible. Flies reproduce by depositing eggs in decayed, fermenting, or rotting organic material that can be either of animal or vegetable origin. Flies can breed in feces, but decaying garbage provides their main breeding ground. Once the female fly lays eggs in the garbage or other rotting material, the eggs hatch in a matter of hours, begin feeding, and develop into an adult fly over the next few weeks. The adult flies pick up germs and parasites while they are feeding or crawling on trash or rotting material and transmit them when they land on people or food. Diarrheal diseases and skin and eye infections are carried by flies. Everyone needs to be careful to avoid these diseases, but people living with HIV/AIDS are naturally even more susceptible to any kind of infection and will become sicker than people living with healthy immune systems. Keeping a clean home will reduce the presence of germs that cause illnesses.
Uncovered containers of water, whether they are inside or outside our homes, give mosquitoes a place to breed.

THE DANGER OF MALARIA

Malaria is a dangerous infectious disease that is often fatal. Although it can strike anyone, it is especially dangerous to young children, pregnant women, and anyone with a chronic illness or weakened immune system.

- Malaria is caused by a parasite that is transmitted through BITES BY INFECTED MOSQUITOES.
- In 2010, there were approximately 216 MILLION CASES of malaria and an estimated 655,000 DEATHS.
- In Africa, ONE CHILD DIES EVERY MINUTE from malaria.
- Pregnant women are at a higher risk of harm from malaria, which can cause MISCARRIAGE & LOW BIRTH WEIGHT for the baby.

Removing garbage and using latrines that provide protection from flies will help reduce breeding areas and the population of flies near humans. People should follow the directions of the Ministry of Health in their area for how to get rid of waste, which may include disposal at a landfill or composting spot. Composted materials can regenerate poor soils and the composting process encourages the production of beneficial micro-organisms. Composting also helps reduce pollution by diverting material from landfills. Even when garbage is not fatal, repeated attacks can lead to debilitation.

Dengue Fever

Dengue fever is transmitted by the bites of mosquitoes infected with the dengue virus. It can cause either a mild or high fever, severe headache, pain behind the eyes, muscle and joint pain, and a rash. Dengue hemorrhagic fever (fever with abdominal pain, vomiting, and bleeding) mainly affects children and can be fatal.

The incidence of dengue fever has increased over recent decades, and half the world’s population is now at risk of the disease. The World Health Organization estimates there may be 50 to 100 million dengue infections worldwide each year.

If someone in your congregation or community becomes ill and you suspect malaria or dengue fever, it is important to visit the local health care facility for timely and appropriate treatment.

Sermon Starter 4: From Our Households to Our Communities

Scripture

“But if anyone does not provide for his own, and especially for those of his household, he has denied the faith and is worse than an unbeliever.” (1Timothy 5:8)

“Let each of you look out not only for his own interests, but also for the interest of others.” (Philippians 2:4)

Protecting our families and our communities from harm is our duty as Christians. Our children rely on us to protect them. Our elderly parents and those living with chronic illness in our care are particularly vulnerable and need our protection. The apostle Paul wrote to his follower Timothy giving him guidance on the importance of caring for one’s family. Paul wrote, “But if anyone does not provide for his own, and especially for those of his household, he has denied the faith and is worse than an unbeliever.” (1Timothy 5:8)

This is explicit direction to provide for our families and to do what we can to shield them from harm, which includes protecting them from disease.

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We may not realize it, but some very simple daily habits can promote the spread of disease and be a threat to our family.

One of those habits that we may not realize is dangerous is leaving containers of water uncovered. Mosquitoes breed in water and lay their eggs on top of standing water. Uncovered containers of water, whether they are inside or outside our homes, give mosquitoes a place to breed.

Mosquitoes carry dangerous diseases, such as malaria and dengue fever, which they transmit to people when they bite. Malaria is especially dangerous for children and pregnant women. A child dies from malaria every minute in Africa. Malaria in a pregnant woman can cause miscarriage, or low birth weight for the baby. Severe dengue fever, also known as hemorrhagic fever, can cause abdominal pain, vomiting, and bleeding that can appear as tiny spots of blood on the skin and larger patches of blood under the skin, and can even be fatal. Death generally results from shock, which causes the body’s vital organs to fail to receive adequate oxygen. It is important to visit the local health care facility for timely and appropriate treatment if you or someone you know has fever, chills, headache, abdominal pain, or vomiting. These can be symptoms of malaria or dengue fever.

In addition to providing a breeding ground for mosquitoes, water stored in open containers in our homes can easily become contaminated with germs, making it unhealthy to use in cooking, cleaning, and washing dishes and clothes. Water must be kept in containers with lids to reduce the chance of contamination by germs or parasites. Also, we should not dip a cup or scoop into the water container to collect it, because we might introduce germs into the water. Water should be stored in containers with spouts for pouring or taps or spigots for dispensing it.

Imagine a family collects water for their home. They leave the container open and uncovered. No one in the family realizes that a mosquito has just found the water and laid its eggs there. Nothing is seen wrong with the water, because it looks clean. Before long, those eggs hatch and new mosquitoes are born. They leave the container open and uncovered. No one in the family realizes that a mosquito has just found the water and laid its eggs there. Nothing is seen wrong with the water, because it looks clean. Before long, those eggs hatch and new mosquitoes are born.

Water, Sanitation and Hygiene Sermon Guide

UNCLEAN WATER AND POOR SANITATION FACTS:

- Diarrhea kills more than 3,000 CHILDREN EACH DAY.
- Intestinal worms infect about 10 PERCENT of people in developing nations, and if the case is severe, can lead to malnutrition, anemia, inhibited growth in children, and poor school performance.
- SIX MILLION PEOPLE in the world have lost their sight due to trachoma, a disease caused by poor hygiene.
- TWO HUNDRED MILLION PEOPLE are infected with schistosomiasis, a parasitic infection carried by snails found in water, which causes severe problems for 20 MILLION of those infected. Schistosomiasis can cause a rash, fever, chills, cough, blood in the urine and feces, and muscle aches. It can even affect the brain or spinal cord and cause seizures, paralysis, or spinal cord inflammation.
- The DEADLY DISEASES of cholera and typhoid are spread in unsanitary conditions and can be prevented by access to safe drinking water, sanitation, and proper hygiene practices.

Discussion Questions from Sermon 4

Question 1: What can happen when water sources in the home and surrounding the home are left uncovered?

Response: Mosquitoes need water to breed. Leaving containers of water in the home and standing water outside the home uncovered provides a place for them to breed.
Question 2: Why should we try to control the population of mosquitoes?
Response: Mosquitoes carry dangerous diseases, such as malaria and dengue fever, which can both be fatal.

Question 3: How should water be stored in the home?
Response: Water should be stored in containers with lids or coverings.

Question 4: What can happen if we use a cup or scoop to remove water from a container?
Response: Dipping a cup or scoop into a container of water can introduce germs that are present on the hands or the cup or scoop into the water. If possible, water should be stored in containers that have a spout or tap to dispense water.

Question 5: What can happen if garbage and rotting food is left inside or outside of the home?
Response: Flies lay eggs in rotting food, either vegetables or meat. Reducing garbage near the home decreases the opportunities for flies to lay their eggs near where people live.

Question 6: Why are flies dangerous?
Response: Flies pick up germs and parasites that cause diarrhea and skin and eye infections when they feed or crawl on garbage or feces. They then transmit these to people when they land on food or other surfaces humans touch.

Question 7: What should you do about garbage from cooking and other household activities?
Response: Check with your Ministry of Health to find out how garbage should be disposed of in your area. Make sure to store garbage in a container with a lid between removal times.

Chapter 5: Sources of Purity and Wisdom

Message: Drinking water from covered boreholes can reduce bacterial infections that cause cholera, typhoid, and parasitic infections.

Drinking water is a necessity to survive, having access to clean drinking water is necessary in the prevention of ingesting bacteria and parasites.

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that cause water-borne infections. It is also important to avoid standing in contaminated water as parasites can enter through the skin.

Although we need water to survive, we must ensure drinking water is not contaminated with bacteria or parasites that cause illness.

Cholera

One of the diseases caused by bacteria in drinking water is cholera. It is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if treatment is not received. Vomiting also occurs in most patients. The incidence of cholera is rising and there are an estimated 3-5 million cases of cholera with 100,000-120,000 deaths from the infection each year. People with low immunity, such as malnourished children or people living with HIV and AIDS, are at a greater risk of death from cholera.

The germs that cause cholera are spread in areas that lack proper sanitation facilities for disposal of human waste. Hand-washing with soap or ash after using the latrine and before handling food is one of the most effective ways to remove germs that cause diarrheal diseases, including cholera. Cholera is a threat more common after a disaster or similar emergency where normal sanitation is disrupted and people are living closely together in camps for displaced persons.

Typhoid

Typhoid is a disease also caused by a type of bacteria and is spread when people eat or drink food or water contaminated by the feces or urine of people carrying the disease. Typhoid causes a fever, severe headache, nausea, loss of appetite, constipation or sometimes diarrhea, and can be fatal. Antibiotics are used to treat typhoid, but strains of the disease that are resistant to antibiotics are developing in some areas.

Parasites

Parasitic intestinal worms infect about 10 percent of people in developing nations, and if the case is severe, can lead to malnutrition, anemia, inhibited growth in children, and poor school performance.

A parasitic infection, known as schistosomiasis, infects approximately 200 million people. Schistosomiasis is carried by snails found in water and causes severe problems for 20 million of those infected. Symptoms include a rash, fever, chills, cough, blood in the urine or feces, and muscle aches. Schistosomiasis can even affect the brain or spinal cord and cause seizures, paralysis, or spinal cord inflammation.

Guinea worm disease is caused by a parasitic worm, the dracunculus medinensis. The larvae of the guinea worm can be found in contaminated water.

After a person is infected by drinking water containing larvae, the worm lives in the infected person’s tissues and causes severe pain, especially in the joints. The worm eventually emerges from the body, causing open sores, fever, and vomiting. The individual should not pull on the worm as it emerges from the body but visit the local health care facility to ensure appropriate care for the limb where the worm is emerging. It releases embryos when it is expelled, continuing the cycle of development.

Fortunately, occurrences of this disease are declining. Care should be taken to avoid drinking or standing in infected water for the decline of this disease to continue.

A very common way of contracting schistosomiasis and guinea worm is by standing in contaminated water, as the snails and worms can penetrate the skin. People should avoid standing in ponds, rivers, lakes and other sources of surface water in areas where these parasites are common.

Many countries have programs to eliminate these diseases and it is important to participate in mass drug eliminations and accept the disinfection of water sources when the Ministry of Health schedules these activities. If infected with any of the above diseases, an individual should visit the local health care facility for treatment.

We must ensure drinking water is not contaminated with bacteria or parasites that cause illness.

Drink Groundwater Pumped from Wells and Avoid Surface Water

To avoid infection of cholera, typhoid, and parasites, it is important to drink water from protected groundwater sources that are much less likely to be contaminated and to avoid drinking surface water.

Surface water comes from sources such as rivers, streams, ponds, and lakes. Groundwater is water that is found underground and pumped up to the surface through wells. Groundwater sources are often of good quality and may only require disinfection.
Surface waters are frequently contaminated and require more elaborate treatment before becoming safe to use.

Boreholes

Boreholes are a type of well used to collect water from the ground. If possible, boreholes should be dug in the dry season and extend below the water table to ensure a continuous supply of water. Boreholes may require a drilling rig which may need to be mounted on the back of a truck or a trailer. Large drilling rigs can drill boreholes more than 200 meters deep. However, if a hand pump is going to be used to collect water, the borehole must not be deeper than 60 meters deep. Boreholes deeper than 60 meters require a motorized pump.

Boreholes need regular monitoring to ensure they are delivering a safe and adequate water supply. The World Health Organization recommends a community inspect its wells four times a year and an external surveillance agency inspect them once a year. Water quality inspections should be conducted twice a year: once in the dry season and once in the rainy season. A committee made up of community members (both men and women) can be established to ensure the maintenance of the borehole.

What to Look for in a Borehole Inspection

Look for the following when designing and inspecting a borehole:

- The well should be surrounded by a cement apron that is at least two meters in diameter to prevent the collection of standing water. If cement is not available, it is possible to use lime as a lower cost alternative to cement. Check with your local government building construction officials for advice.
- The cement apron surrounding the well to protect it from surface water contamination should be properly maintained and inspected for cracks.
- Hand pumps must be securely fixed to the well.
- A drainage channel leading away from the well and pump should be properly maintained to prevent pooling of water.
- There should not be any uncovered wells within 100 meters of the borehole well.
- Latrines should be more than 30 meters downhill from the well.
- Watering pools for animals should be more than 20 meters downhill from the well.
- The top of the well should be completely covered to prevent surface or spilt water from entering the well. This may be accomplished by using a concrete base on which the hand pump is securely fixed.

Disinfection

Good quality groundwater that comes from a covered well or borehole with a pump can be disinfected with methods such as the addition of chemicals, through boiling, or by solar radiation.

Chemicals

Chemicals such as chlorine and iodine can be added to water to remove pathogens. These chemicals remain in the water and minimize the re-introduction of bacteria and discourage re-contamination.

Boiling

A disadvantage of boiling is the consumption of energy and cost of fuel necessary to heat water to boiling, and it may not be feasible everywhere. If boiling water is feasible in your area, the World Health Organization recommends that the water is heated until it reaches a rolling boil, which indicates a high enough temperature to destroy pathogens has been reached. It is also recommended that the water be stored in the same container in which it is been boiled, preferably one with a lid or other protected opening in order to reduce opportunities for recontamination. The water should be consumed soon after it has cooled, preferably within the same day to reduce the chance for recontamination.

Using the Sun to Kill Pathogens

Heating water to temperatures high enough to make the pathogens harmless using the heat of the sun can be a more accessible and economical alternative to boiling using wood or fuel as a heat source. Water can be heated to temperatures capable of
killing the disease-causing organisms in transparent bottles, such as a plastic beverage bottle exposed to sunlight for at least six hours. Painting the bottle black on one side or lying it on a dark surface can help raise the temperature. This method of treatment uses both the ultraviolet radiation in sunlight as well as the heating effect of sunlight to make the germs harmless. Using a container that is completely black or made out of a material that can absorb heat, such as a metal container, can also make the germs harmless.\footnote{xcv}

**Filtration**

Filtration removes particles and at least some of the microbes from water. There are a variety of methods to filter impurities from water, including using sand, coal, sponge, or cloth to filter water. These methods are only moderately effective in removing microbes.

Recommended practices for disinfection vary among nations. Check with your Ministry of Health for the preferred method in your area and more specific instructions.

Disinfection is not sufficient for contaminated surface water, which requires more extensive treatment to remove disease-causing agents.\footnote{xcvi}

**Sermon Starter 5: Sources of Purity and Wisdom**

**Scripture**

"Listen now to my voice: I will give you counsel, and God will be with you: Stand before God for the people, so that you may bring the difficulties to God.

We can receive spiritual and physical nourishment from many sources. Family members, neighbors, and others in our community may give us advice and try to help us avoid problems and do what is right when we make important decisions. We must be careful the advice we receive is from someone with pure motives, who cares about us and wants us to do the right thing. We must be cautious regarding the sources of our spiritual nourishment (or counsel from others) just as we must be cautious about our sources of physical nourishment. Our sources of physical nourishment must be uncontaminated by anything that can make us ill, while our sources of counsel and advice must be uncontaminated by harmful intentions.

In the case of Moses, he was blessed to receive wise counsel from his father-in-law, Jethro, the respected priest of Midian. After Moses had delivered the people of Israel safely from the Pharaoh and liberated them from Egypt, Jethro observed Moses listening to the troubles of the Israelites all day and making judgments on their problems.

Jethro thought this was not a good idea and asked Moses, "Why do you alone sit and all the people stand before you from morning until evening?" Moses explained to him that the people came to him when they had disagreements and he made decisions based on the statutes of God and His laws. Jethro was more experienced than Moses and knew that it would not be possible for Moses to continue to solve all the problems of the people in this way. It would wear him out, he would no longer be able to lead the people effectively, and they would not be satisfied.

Jethro spoke from his experience and wisely told Moses, "Listen now to my voice; I will give you counsel, and God will be with you: Stand before God for the people, so that you may bring the difficulties to God. And you shall teach them the statutes and the laws, and show them the way in which they must walk and the work they must do." (Exodus 18:19-20) He was telling Moses the people must learn to handle their own difficulties. Jethro had good intentions and was sharing his wise counsel in order to help Moses.

Jethro went on to advise Moses to select good people who would be suitable rulers who could handle troubles and work with Moses to share the burdens of governing people and help foster a peaceful society. Moses listened to all these words and did all that his father-in-law had said.

This advice helped Moses be a better leader. Jethro wanted what was best for Moses and his family. He was a well-meaning source of wisdom for Moses. This is the type of person we must listen to when we seek advice. We must turn to someone we know we can trust, with experience and wisdom, who will try to protect us from harm and foolish mistakes.

Finding someone to be a source of advice and counsel when we face difficult decisions or problems is important. We must be careful the source of counsel has our best interest in mind and will give us advice that will help us solve our problems and stay away from trouble as we must be cautious of sources of nourishment for our bodies, such as food and drink; they must also be pure.

There are many sources of water, such as ponds, lakes, streams, and collections of rain water. Not all these sources are able to provide safe water.

Water can be infected with small germs that we cannot see, but can cause dangerous diseases like cholera and typhoid. Cholera causes painful watery diarrhea that can quickly lead to severe dehydration and death if not treated immediately. More than 100,000 people die from cholera each year. Cholera can be especially dangerous for malnourished children or people living with HIV. Typhoid causes a fever, severe headache, and stomach problems, and can even be fatal. Antibiotics are used to treat typhoid, but strains that can resist antibiotics are developing.

In addition to bacteria, parasites live in water and will make us sick when we ingest them. Intestinal worms are a type of parasite that can be caused by drinking water. These worms can lead to malnutrition and anemia and can keep children from growing and learning as they should. We can also be infected by these worms through the soles of our feet, so it is important to wear shoes.

Hundreds of millions of people in the world are
infected by another type of parasite that is carried by snails and found in water. It can cause a rash, fever, chills, cough, and muscle aches. This parasite can even affect the brain or spinal cord and cause seizures and paralysis.

The larvae of the parasitic worm, known as the guinea worm, can be found in contaminated water. When people drink contaminated water, they become infected by the larvae, which grow into adult worms that live in human tissues and cause severe pain until they are expelled which can take days or weeks. It is even more common to contract these parasites by standing in contaminated water because the snails and worms can penetrate your skin.

To avoid infection of cholera, typhoid, and parasites, it is important to drink water from protected groundwater sources that are much less likely to contain germs and parasites.

Drinking water that has been pumped from a borehole that is properly covered is much safer than surface water. Groundwater that comes from deep within the water table is better protected from parasites that can make us sick.

Boreholes are a type of well used to collect untainted water from the ground, making them a safe source of drinking water. Boreholes should have a pump operated by hand or motor to bring water up from deep under the ground. The pump and well should have an apron made of cement or another alternative material, such as lime, and a drainage channel leading away from the well. Latrines, watering pools for animals, and uncovered wells must be located well away from the borehole to reduce the risk of contamination, and the top of the well should be completely covered to prevent surface or split water from entering the well. Water from a borehole may still need to be disinfected as directed by the Ministry of Health.

Making sure we know the source of the water we drink, and that the source is safe from parasites is critical to protecting our health. Drinking groundwater will help protect us from parasites that may be present in surface water.

Protecting our physical and spiritual health is critical. We can help protect our spiritual health by listening to a trusted source for advice about how to live our lives and make important decisions. Moses was wise to listen to Jethro, his father-in-law who was a well-respected priest. We must choose carefully when we select the person we will turn to for advice. And we must also choose carefully when we seek physical nourishment. Not all water sources are pure and free from disease. We can help protect our physical health by turning only to pure sources of drinking water and avoiding those that may be contaminated.

**Discussion Questions from Sermon 5**

**Question 1:** What can happen if we drink from or stand in lakes, ponds, rivers, or streams?

**Response:** Drinking surface water or standing in contaminated water can cause infection by dangerous parasites or bacteria that causes cholera and typhoid.

**Question 2:** What are cholera and typhoid?

**Response:** Cholera and typhoid are diseases caused by bacteria that are found in water. Cholera is an infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if not treated immediately. Typhoid causes a fever, severe headache, and stomach problems, and can even be fatal.

**Question 3:** What are the three types of parasites that can be caused by drinking or standing in contaminated water?

**Response:**

- Intestinal worms, which can lead to malnutrition and anemia and can keep children from growing and learning as they should. These can also be transmitted from the soil to our feet, so it is important to wear shoes.
- Parasites carried by snails can cause a rash, fever, chills, cough, and muscle aches. This parasite can even affect the brain or spinal cord and cause seizures and paralysis.
- Guinea worms which live in human tissues and cause severe pain until they are expelled from sores in the body.
Question 4: How can we avoid cholera, typhoid and parasitic infections caused by contaminated drinking water?

Response: Drinking groundwater that comes from a covered borehole, not standing in contaminated water, and wearing shoes greatly reduce the chance of infection from parasites and bacteria.

Question 5: Is there anything that needs to be done to water retrieved from covered boreholes?

Response: Groundwater retrieved from a covered borehole is generally safe, but can be disinfected with methods such as adding chlorine or iodine or boiling the water to ensure purity. Residents should check with their local Ministry of Health if there is a recommended method for their area.

Question 6: What are important aspects in proper borehole design?

Response:
- The well should be surrounded by a cement apron that is at least two meters in diameter to prevent the collection of standing water.
- The apron should be properly maintained and inspected for cracks.
- Hand pumps must be securely fixed to the well.
- A drainage channel leading away from the well and pump should be properly maintained to prevent pooling of water.
- The top of the well should be completely covered to prevent surface or spilt water from entering the well.

Question 7: Is the location of the borehole important? Can it be near watering holes for animals or latrines?

Response:
- There should not be any uncovered wells within 100 meters of the borehole well.
- Latrines should be more than 30 meters downhill from the well.
- Watering pools for animals should be more than 20 meters downhill from the well.

Chapter 6: God’s Connected Earth

Message: Don’t drink or bathe in the same water in which animals pass through or drink.

Consuming water contaminated with animal feces may result in one developing fecal-oral diseases such as cholera and diarrhea.

Animal feces can contain germs that cause deadly diseases, including cholera and dangerous diarrhea. People can become infected with these diseases by drinking water contaminated by animal feces.

Cholera

One of the diseases caused by the contamination of water by animal feces is cholera. It is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if treatment is not received. Vomiting also occurs in most patients. The incidence of cholera is rising and there are an estimated 3-5 million cases of cholera with 100,000-120,000 deaths from the infection each year. Cholera can kill within hours of the onset of symptoms from severe loss of fluid. People with low immunity, such as malnourished children or people living with HIV, are at a greater risk of death from cholera.

The germs that cause cholera are also present in human feces and are spread in areas that lack proper sanitation facilities for disposal of human waste. In addition, hand-washing with soap or ash after using the latrine and before handling food is one of the most effective ways to remove germs that cause diarrheal diseases, including cholera. Proper sanitation and access to clean drinking water are critical in stopping the spread of cholera. Cholera is a threat more common after a disaster or similar emergency where normal sanitation is disrupted and people are living closely together in camps for displaced persons.

Dangerous Diarrhea from E. Coli Infection

Animal feces carry bacteria known as E. coli. Although most strains of E. coli are harmless, some strains cause dangerous diarrhea. Cattle, sheep, and goats are the main sources of a strain of E. coli that can cause life-threatening diarrhea, although it has also been found in horses, pigs, rabbits, dogs, and cats.

This strain of E. coli can cause fever, vomiting, abdominal cramps, and diarrhea that may progress to bloody diarrhea. Young children and elderly people infected with this strain are vulnerable to life-threatening problems, such as kidney failure. Advanced cases of the disease can cause seizures, strokes, and coma.

Proper sanitation is important in controlling the spread of dangerous E. coli. People can carry the germs without showing symptoms of illness and infect others. Regular hand-washing with soap or ash, especially before handling food and after using the latrine, is important to control the spread of E. coli. Coming in direct contact with animals has also been identified as a risk factor in the spread of E. coli. Hand-washing with soap or ash after handling animals or coming in contact with them is critical in preventing infection by E. coli.

Water Contamination by Animal Feces

Animals can transmit the germs that cause cholera and dangerous strains of E. coli when they walk through or drink from pools, ponds, lakes, rivers, or streams. People who bathe in or drink from these waters can become infected by the disease-causing germs.

If you think that you might have cholera or E.coli it is important to visit your local health care facility immediately for timely and appropriate treatment. Cholera can kill within hours of the first symptoms.
Sermon Starter 6: 
God’s Connected Earth

Scripture
“And God said, ‘See, I have given you every herb that yields seed which is on the face of all the earth, and every tree whose fruit yields seed; to you it shall be for food. Also, to every beast of the earth, to every bird of the air, and to everything that creeps on the earth, in which there is life, I have given every green herb for food…”’ (Genesis 1:29-30)

The earth is a complex system. In His design, God has created delicate relationships among all living things. Plants that nourish animals and people do not emerge from thin air. They must start as seeds and need soil, water, and sun to grow. These plants yield fruit and vegetables, which God has designed for us and for the animals to be used as food. Once they have grown, the plants will yield more seeds, continuing the cycle of growth for more life-sustaining plants.

God’s plan is explained in Genesis. He said “‘See, I have given you every herb that yields seed which is on the face of all the earth, and every tree whose fruit yields seed; to you it shall be for food. Also, to every beast of the earth, to every bird of the air, and to everything that creeps on the earth, in which there is life, I have given every green herb for food…”’ (Genesis 1:29-30) A source of nourishment has been designed for every living creature. And, in turn, these plants that sustain life for us and for animals need nourishment of their own.

Animals and plants are vital to our survival. We couldn’t live without them. But there is danger among them also. Plants can be poisonous and animals can carry disease, and it is important for us to know about these diseases and how to protect ourselves from them.

Both animals and people can carry germs that cause dangerous diseases in their digestive systems that are released into the environment with their waste. Germs from animal waste will be present in water that animals drink from and walk through, and people can become infected by these germs when they drink or even bathe in the water. We must be responsible and protect our health and the health of our families by avoiding contact that may cause infection and illness.

One of the deadly diseases that can be spread by the presence of animal and human feces in water is cholera. Cholera is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if treatment is not received. Cholera kills 100,000-120,000 people each year.

Animal feces can also carry bacteria known as E. coli. Cattle, sheep, goats, and deer often carry a type of E. coli that can cause life-threatening diarrhea, and this deadly strain of E. coli has also been found in horses, pigs, rabbits, dogs, and cats. Young children and elderly people who are infected with this dangerous strain are vulnerable to life-threatening problems, such as kidney failure. Advanced cases of the infection can cause seizures, strokes, and coma.

Animals are an important part of our lives and we gain many benefits from them, but they can be a source of illness if we are not careful. We must not drink or even bathe in water that animals pass through; and we should not allow our children to play, bathe in, or drink from these waters.

Both cholera and E. coli can also be spread by human waste, so making sure to use a latrine that
keeps waste separate from our living areas is vital in protecting ourselves from these dangerous diseases. And, we must make sure to wash our hands immediately after using the latrine and before handling food to remove any germs.

God’s complex system has many parts that are all connected to each other to form our earth. Trees and plants need water and sun to grow. Animals need plants and other animals for nourishment, and we also rely on them to live. Although we must live among the animals and care for them, we must recognize the hazards of this close contact. Animals carry germs that cause dangerous diseases. But we can protect ourselves by making sure never to bathe in or drink water that animals pass through, or drink from.

We have an important role in this complex system. We are free to use the plants and animals in God’s creation for nourishment. But with all the good things God has given us comes responsibility to protect ourselves and our families.

Discussion Questions from Sermon 6

Question 1: Why must we avoid bathing in or drinking from water that animals drink from or pass through?
Response: Animals carry germs that can cause dangerous diseases in their intestines, which are released with their waste and can be present in the water. People can become infected when drinking or bathing in the water.

Question 2: What germs can be in the water where animals walk through or drink?
Response: Germs that cause cholera and E. coli, which can cause dangerous diarrhea can be present in the water.

Question 3: Why are cholera and E. coli dangerous?
Response: Cholera is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death. A dangerous strain of E. coli can cause life-threatening problems, such as kidney failure, seizures, strokes, and coma.

Question 4: How else are cholera and E. coli spread in addition to contact with water contaminated with animal feces and how can we protect ourselves?
Response: E. coli and the germs that cause cholera can also be present in human waste. Always using latrines or toilets and carefully washing hands with soap after using the latrine and before handling food will help stop the spread of these germs.

Conclusion: Safe Drinking Water and Proper Sanitation Save Lives

As a spiritual leader, you can be a source of knowledge on many issues, including healthy habits. By following recommendations contained in this guide and from your local Ministry of Health, you can set a good example and help protect yourself, your family, and your congregation from dangerous water-borne illnesses.

The main protections people should take to avoid water-borne illnesses include using water from protected sources for drinking and cooking, using proper latrines or toilets to prevent contamination of soil by human waste, and consistent hand-washing after using the latrine and before and after handling food. More specific recommendations are included in the six messages the sample sermons in this guide are based upon.

Six Safe Water and Sanitation Messages:

1. Hand-washing with soap or ash reduces diseases such as diarrhea, respiratory illnesses, and intestinal worms, as well as eye and skin infections. This is especially important before and after cooking and eating and after using the latrine.
2. Using a latrine, instead of defecating in the open, can reduce diarrhea infections.
3. Keep communal latrines/home latrines clean and wash hands with soap or ash after every use. Note: Schools with separate latrines for boys and girls reduce female drop-out rates
4. Keep a clean environment, so mosquitoes and flies cannot breed. Remove standing water inside and outside the home and clean up trash around your home.
5. Drinking water from covered boreholes with a hand pump can reduce parasite infection.
6. Don’t drink or bathe in the same water that animals pass through or drink from.

Remember that in addition to the information you share in your sermons and group meetings at your church, your habits can also influence the decisions and behavior of the people around you. Demonstrating in your pastoral work and in your own behaviors that you take these recommendations seriously can help encourage your community to embrace and practice them.
References and Endnotes


29 World Health Organization. Water, Sanitation and Hygiene Sermon Guide
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About IMA World Health

Advancing health and healing

Our mission is to advance health and healing to vulnerable and marginalized people the world over.

**IMA World Health**, a specialist in providing essential healthcare services and medical supplies around the world, is a nonprofit, faith-based organization working to restore health, hope and dignity to those most in need. We work primarily in the developing world, where an estimated 30 to 70 percent of health care is provided by faith-based organizations. IMA is an international health organization that is widely recognized for its effective and careful use of resources.

How We Work

**Highly Efficient** – Efficiency is part of our culture. IMA was named one of Forbes’ 20 most efficient charities two years in a row and has received Charity Navigator’s highest efficiency ratings five years running.

**Expertly Effective** – Our programs have become internationally known for creating sustainable long-term health care solutions in areas with little to no existing health care infrastructure.

**Faith-Based** – IMA is uniquely equipped for our work in the developing world, where 30-70% of health care is provided by faith-based organizations (FBOs). Our partnership with other FBOs, coupled with our close work with governments and other health care partners, gives IMA a unique capacity to make significant impacts.

All around the world, we focus on four primary goals:

- **Provide essential medicines and medical supplies** – Our various international public health programs, IMA Medicine Boxes®, Safe Motherhood Kits™, Healthy Kids Kits and targeted donations deliver urgently needed supplies to those to need them most.
- **Fight diseases** – In addition to HIV/AIDS care and treatment, IMA has a long history in targeting diseases that don’t always make the news, including Neglected Tropical Diseases and the dangerous and disfiguring, yet treatable, childhood cancer Burkitt’s Lymphoma.
- **Educate and train people** – We empower community health workers, health networks and health care personnel with skills and knowledge to improve care and save lives.
- **Seek long-term, sustainable solutions** – The DRC and Southern Sudan are models of improved long-term health care programs that will continue to benefit millions long after IMA’s direct involvement ceases.
**Mission Statement**

Church World Service works with partners to eradicate hunger and poverty and to promote peace and justice around the world.

**Core Values**

- Embodying the love of Jesus Christ
- Respecting all faiths and traditions
- Working with the most vulnerable
- Promoting the dignity and rights of all people
- Advocating a social, political, and economic order based on peace and justice
- Supporting the integrity of creation
- Working in partnership
- Working ecumenically
- Working responsibly
- Embodifying the love of Jesus Christ throughout life and work

Church World Service seeks to express all of these values locally and globally.

**About Church World Service**

We're working with partners around the world to build relationships and to build a world where there's enough for all. So, if you're looking to help build a better world—a world where a hand out, but a hand up—Church World Service is people reaching out to neighbors in need near and far.
References and Endnotes

The Qur’an, Translation by Abdullah Yusuf Ali
Water, Sanitation and Hygiene Sermon Guide

released with their waste and can be present in the water. People can become infected when drinking or bathing in the water.

Question 2: What germs can be in the water where animals walk through or drink?

Response: Germs that cause cholera and E. coli, which can cause dangerous diarrhea can be present in the water.

Question 3: Why are cholera and E. coli dangerous?

Response: Cholera is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death. A dangerous strain of E. coli can cause life-threatening problems, such as kidney failure, seizures, strokes, and coma.

Question 4: How else are cholera and E. coli spread in addition to contact with water contaminated with animal feces and how can we protect ourselves?

Response: E. coli and the germs that cause cholera can also be present in human waste. Always using latrines or toilets and carefully washing hands with soap or ash after using the latrine and before handling food will help stop the spread of these germs.

Conclusion: Safe Drinking Water and Proper Sanitation Save Lives

As a spiritual leader, you can be a source of knowledge on many issues, including healthy habits. By following the recommendations contained in this guide and from your local Ministry of Health, you can set a good example and help protect yourself, your family, and your congregation from dangerous water-borne illnesses.

The main protections people should take to avoid water-borne illnesses include:

1. Using water from protected sources for drinking and cooking.
2. Using proper latrines or toilets to prevent contamination of soil and water. Illnesses include stomach and intestinal.
4. Following these recommendations can help your community stay well.
5. Remember that in addition to the information you share in your sermons and group meetings at your place of worship, your habits can also influence the behavior of the people around you.

Six Safe Water and Sanitation Messages:

1. Hand-washing with soap or ash reduces diseases such as diarrhea, respiratory illnesses, and intestinal worms. Always wash your hands with soap before and after using the latrine, and before and after handling food.
2. Using a latrine, instead of defecating in the open, can reduce diarrhea infections.
3. Keep communal latrines home latrines clean and dry.
4. Drinking water from covered boreholes with a hand pump can reduce parasite infection.
5. Don’t drink or bathe in the same water that animals pass through or drink from.
6. Keep a clean environment so mosquitoes and flies cannot breed. Remove standing water inside and outside the home and clean up trash around your home. Wash hands with soap after every use.

Remember that in addition to the information you share in your sermons and group meetings at your place of worship, your habits can also influence the behavior of the people around you. Demonstrating in your work with your congregation and in your own behavior that you take these recommendations seriously can help your community stay well and reduce the spread of water-borne diseases.
Water, Sanitation and Hygiene Sermon Guide

Pasture in the morning….It is He Who sends down rain from the sky: from it you drink, and out of it (grows) the vegetation on which you feed your cattle.” (Qur’an 16:5-10)

Allah created all living creatures and gave them many purposes. He tells us in the Qur’an that He has created cattle for us, and that we derive warmth and nourishment from the animals.

As Allah explains, He sends down rain from the sky to nourish plants which we use to feed our cattle, supporting the cycle of life.

While we may be dependent on animals around us for nourishment, there are also potential hazards resulting from exposure to those animals and we must be careful to protect ourselves. Animals can carry germs that cause dangerous diseases in their digestive systems that are released into the environment with their waste. Germs from animal waste will be present in water that animals drink from and walk through, and people can be infected by these germs when they drink from or walk through a contaminated water source.

Cholera is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if treatment is not received. Cholera is an infectious disease that can be spread by people who are infected and carry bacteria in their hands, which can contaminate food and water.

Cholera kills 100,000-120,000 people each year.

Water, Sanitation and Hygiene Sermon Guide

Discussion Questions from Khutbah 6

Question 1: Why must we avoid bathing in or drinking from water that animals drink from or pass through?

Response: Animals carry germs that can cause dangerous diseases if we are not careful. They can be a source of illness if we are not careful.

Although cases of the infection can cause seizures, "The fever-causing bacteria, which is typically carried by infected and healthy people who are necotice the changes they may unknowingly pass on to others, is spread by contact. This is known as cholera.rabies, or carrier.

Animals' feces can also carry parasites, and can cause serious illness. If we are not careful, we can become infected.

Wash your clothes, socks and shoes when you come home from feeding your animals. Make sure to wash your hands immediately after using the latrine and before handling food.
Proper sanitation is important in controlling the spread of cholera. Animals can transmit the germs that cause cholera and dangerous diarrhea. The germs that cause cholera are also present in human feces and are spread in areas that lack proper sanitation facilities for disposal of human waste. If you think that you might have cholera or E. coli, it is important to visit your local health care facility immediately for timely and appropriate treatment. Cholera can kill within hours of the first symptoms. Vomiting, fever, and diarrhea are signs of severe dehydration and kidney failure can occur quickly in the absence of dehydrating fluid therapy. One of the diseases caused by the contamination of water by animal feces is cholera. It is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death. It can quickly lead to severe dehydration and death if not treated properly. The well should be surrounded by a cement apron that is at least two meters in diameter to prevent the collection of standing water. The apron should be properly maintained and inspected for cracks. Hand pumps must be securely fixed to the well. A drainage channel leading away from the well and pump should be properly maintained to prevent pooling of water.

**Question 6:** What are the important aspects in proper borehole design?

**Response:**

- **Completion date:** 6 months.
- **Water contamination by animal feces:**
  - The well should be surrounded by a cement apron that is at least two meters in diameter to prevent the collection of standing water.
  - The apron should be properly maintained and inspected for cracks.
  - Hand pumps must be securely fixed to the well.
  - A drainage channel leading away from the well and pump should be properly maintained to prevent pooling of water.

**Question 7:** Can it be near watering holes for animals or latrines?

**Response:**

- **Completion date:** 6 months.
- **Water contamination by animal feces:**
  - The well should be surrounded by a cement apron that is at least two meters in diameter to prevent the collection of standing water.
  - The apron should be properly maintained and inspected for cracks.
  - Hand pumps must be securely fixed to the well.
  - A drainage channel leading away from the well and pump should be properly maintained to prevent pooling of water.
Water, Sanitation and Hygiene Sermon Guide

Drinking contaminated water can cause infections by parasites and bacteria. These infections can affect the brain or spinal cord and cause seizures and paralysis. The larvae of the parasitic worm, known as the guinea worm, can be found in contaminated water. When people drink contaminated water, they become infected by the larvae, which grow into adult worms that live in human tissues and cause severe pain until they are expelled, which can take days or weeks. It is even more common to contract these parasites by standing in contaminated water because snails and worms can carry the parasites. The Children of Israel listened to the wrong source of advice while Moses was gone. They worshiped a false god at the advice of Samiri and did not listen to Moses' brother Aaron. We must also be careful with our spiritual and physical health by listening only to pure sources of advice. Scripture is critical to protecting our spiritual health. Drinking ground water will help protect us from parasites and bacteria. Protecting our physical and spiritual health is critical. We can help protect our spiritual health by listening to the right advice, and we can help protect our physical health by turning only to protected sources of drinking water and avoiding those that may be contaminated.

Discussion Questions from Khutbah 5

Question 1: What can happen if we drink from or stand in lakes, ponds, rivers, or streams?

Response: Drinking surface water or standing in contaminated water can cause infection by dangerous parasites or bacteria that cause cholera and typhoid.

Question 2: What are cholera and typhoid?

Response: Cholera and typhoid are diseases caused by bacteria that are found in water. Cholera is an infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if not treated immediately. Typhoid causes a fever, severe headache, and stomach problems, and can even be fatal.

Question 3: What are the three types of parasitic infection that can be caused by drinking or standing in contaminated water?

Response: • Intestinal worms, which can lead to malnutrition and anemia and can keep children from growing and learning as they should. These can also be transmitted from the soil to the body when people walk barefoot or stand in contaminated water. • Parasites carried by snails can cause a rash, fever, chills, cough, and muscle aches. This parasite can even affect the brain or spinal cord and cause seizures and paralysis. • Guinea worms which live in human tissues and cause severe pain until they are expelled from sores in the body.

Question 4: How can we protect our spiritual and physical health by listening to the right advice and avoiding those that may be contaminated by parasites and bacteria?

Response: Drinking contaminated water can cause spiritual and physical harm. To draw groundwater to the surface, we use a type of well, known as a borehole. Boreholes should have a pump operated by hand or motor to bring water up from deep under the ground. The pump and well should have a drainage channel leading away from the well, and the top of the well should be completely covered to prevent water from entering the well. Water from a borehole may still need to be disinfected as directed by the Ministry of Health.

Drinking ground water will help protect us from parasites and bacteria. Protecting our physical and spiritual health is critical. We can help protect our spiritual health by listening to the right advice, and we can help protect our physical health by turning only to protected sources of drinking water and avoiding those that may be contaminated.

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Response: Drinking contaminated water can cause spiritual and physical harm. To draw groundwater to the surface, we use a type of well, known as a borehole. Boreholes should have a pump operated by hand or motor to bring water up from deep under the ground. The pump and well should have a drainage channel leading away from the well, and the top of the well should be completely covered to prevent water from entering the well. Water from a borehole may still need to be disinfected as directed by the Ministry of Health.

Drinking ground water will help protect us from parasites and bacteria. Protecting our physical and spiritual health is critical. We can help protect our spiritual health by listening to the right advice, and we can help protect our physical health by turning only to protected sources of drinking water and avoiding those that may be contaminated.
"Allah said: 'We have tested your people in your absence: the Samiri has led them astray.'" (Qur'an 20:85)

In addition to bacteria, parasites live in water and can cause dangerous and life-threatening diseases. The Children of Israel learned what could happen when they turned to the wrong source for counsel when we face difficult decisions or problems. Fortunately the Qur'an contains advice concerning finding someone to be a source of advice and counsel. They followed the advice of Samiri, a man who had constructed a golden calf and encouraged the people to worship it instead of worshipping Allah. When Moses returned and learned of their sin, he was very distraught. Allah told Moses that his people had been deceived. It is recited in the Qur'an:

"Your (real) friends are (no less than) Allah, His Messenger and those who establish regular prayers and regular charity, and they bow down humbly (in worship)." (Qur'an 5:55)

This means we can always turn to the word of Allah and His Messenger. We can also look for advice from the people around us who are living a holy life, practicing acts of charity and worshipping Allah humbly. Those who encourage us to seek revenge when we are upset or to harm others or disrespect our parents are not the pure sources of wisdom we should follow.

When it comes to your physical well-being, it is important to make the right choices. Certain decisions can improve your health such as eating healthy food and exercising, while others can harm your health by being unhealthy. Sometimes the reasons behind the wrong choices we make are not as obvious as we would think. For example, we might not realize how harmful it is to drink water from contaminated sources. When it comes to physical well-being, we can receive spiritual and physical nourishment. When we come to the conclusion that we need more spiritual nourishment, we should follow Soli's saying, "We made from water every living thing." (Qur'an 21:30)

What makes water harmful is the germs and parasites that we cannot see and can cause dangerous diseases. So we must be careful to choose a pure source for our water and listen to health experts and medical counsel when we need to make important decisions. We must also be careful our sources are pure and do not cause us to become ill. We are especially vulnerable to be infected by another type of parasite that is native to boiling using wood or fuel as a heat source. In addition to bacteria, parasites live in water and can cause dangerous and life-threatening diseases. Without the right water treatment, our bodies can become sick when we ingest harmful parasites. This is why it is important to use the right water treatment methods. There are a variety of water treatment methods. When it comes to physical well-being, we can receive spiritual and physical nourishment. When we come to the conclusion that we need more spiritual nourishment, we should follow Soli's saying, "We made from water every living thing." (Qur'an 21:30)

In this sermon, we will talk about our problems and say how Allah will help us solve our problems and stay out of them when we look to him for advice and counsel. We will also discuss how we can be sources of advice and counsel to others. We will talk about the importance of having a good mentor and making good use of the resources available to us.

Prayer

Let’s pray our du’a and raise our hands in gratitude for our blessings and the blessings of our families and community. Let’s ask Allah to forgive us our sins and to guide us to the right path.
Drink Groundwater Pumped from Wells

To avoid infection of cholera, typhoid, and parasites, it is important to drink water from protected groundwater sources that are much less likely to be contaminated and to avoid drinking surface water.

Surface water comes from sources such as rivers, streams, ponds, and lakes. Groundwater is water that is found underground and pumped up to the surface through wells. Groundwater sources are often of good quality and may only require disinfection. Surface waters are frequently contaminated and require more elaborate treatment before becoming safe to use.

Boreholes

Boreholes are a type of well used to collect water from the ground. If possible, boreholes should be dug in the dry season and should extend below the water table to ensure a continuous supply of water. Boreholes may require a drilling rig which may need to be mounted on the back of a truck or a trailer. Large drilling rigs can drill boreholes more than 200 meters deep. However, if a hand pump is going to be used to collect water, the borehole must not be deeper than 60 meters deep. Boreholes deeper than 60 meters require a motorized pump.

Boreholes need regular monitoring to ensure they are delivering a safe and adequate water supply. The World Health Organization recommends a committee of community members (both men and women) can be established to ensure the maintenance of the borehole.

What to Look for in a Borehole

Look for the following when designing and inspecting a borehole:

- The well should be surrounded by a cement apron that is at least two meters in diameter and should prevent the collection of standing water. If cement is not available, it is possible to use lime as a lower cost alternative to cement. Check with your local government building construction officials for advice.
- The cement apron surrounding the well to protect it from contamination should be properly maintained and inspected for cracks.
- Hand pumps must be securely fixed to the well.
- A drainage channel leading away from the well and pump should be properly maintained to prevent pooling of water.
- There should not be any uncovered wells within 100 meters of the borehole well.
- Latrines should be more than 30 meters downhill from the well.
- Watering pools for animals should be more than 20 meters downhill from the well.
- The top of the well should be completely covered to prevent surface or spilled water from entering the well. This may be accomplished by using a concrete base on which the hand pump is securely fixed.

Disinfection

Good quality groundwater that comes from a covered well can be disinfected with methods such as the addition of chemicals, through boiling, or by solar radiation.

Chemicals

Chemicals such as chlorine and iodine can be added to water to remove pathogens. These chemicals remain in the water and minimize the re-introduction of bacteria and discourage re-contamination.

Boiling

A disadvantage of boiling is the consumption of energy and cost of fuel necessary to heat water to boiling. If boiling water is practical in your area, the World Health Organization recommends that the water is heated until it reaches a rolling boil, which indicates a high enough temperature to destroy pathogens has been reached. It is also recommended that the water be stored in the same container in which it has been boiled. Once boiled, the water is safe to drink.

Using the Sun to Kill Pathogens

Heating water to temperatures high enough to make the pathogens harmless using the heat of the sun can be a more accessible and economical alternative.
Question 7: What should you do about garbage from cooking and other household activities?

Response: Check with your Ministry of Health to find out how garbage should be disposed of in your area. Make sure to store garbage in a container with a lid between removal times.

Khutbah 5: Sources of Purity and Wisdom

Message: Drinking water from covered boreholes can reduce bacterial infections that cause cholera and typhoid, and parasitic infections. Drinking water is a necessity to survive, having access to clean drinking water is necessary in the prevention of ingesting bacteria and parasites that cause water-borne infections. It is also important to avoid standing in contaminated water as parasites can enter through the skin.

Cholera

One of the diseases caused by bacteria in drinking water is cholera. It is an intestinal infection that causes painful watery diarrhea that can quickly lead to severe dehydration and death if treatment is not received. Vomiting also occurs in most patients.

The incidence of cholera is rising and there are an estimated 3-5 million cases of cholera with 100,000-120,000 deaths from the infection each year. People with low immunity, such as malnourished children or people living with HIV and AIDS, are at a greater risk of death from cholera.

The germs that cause cholera are spread in areas that lack proper sanitation facilities for disposal of human waste.

Hand-washing with soap or ash after using the latrine and before handling food is one of the most effective ways to remove germs that cause diarrheal diseases, including cholera.

Cholera is a threat more common after a disaster or similar emergency where normal sanitation is disrupted and people are living closely together in camps for internally displaced persons. Eradicating water-borne diseases, including cholera, is one of the most effective ways to reduce famine in the future after future disasters.

Typhoid

Typhoid is a disease also caused by a type of bacteria. It is spread when people eat or drink food or water contaminated by the feces or urine of people carrying the disease. Typhoid causes a fever, severe headache, nausea, loss of appetite, constipation or sometimes diarrhea, and can be fatal. Antibiotics are used to treat typhoid, but antibiotic-resistant strains of the disease are developing in some areas.

Parasites

Parasitic intestinal worms infect about 10 percent of people in developing nations, and if the case is severe, can lead to malnutrition, inhibited growth in children, and poor school performance. A parasitic infection known as schistosomiasis infects approximately 200 million people. Schistosomiasis is carried by snails found in water and causes severe problems for 20 million of those infected. Symptoms include a rash, fever, chills, cough, blood in the urine or feces, and muscle aches. Schistosomiasis can even affect the brain or spinal cord and cause seizures, paralysis, or spinal cord inflammation.

Guinea worm disease is caused by a parasitic worm, the dracunculus medinensis. The larvae of the guinea worm can be found in contaminated water. After a person is infected by drinking water containing larvae, the worm lives in the infected person’s tissues and causes severe pain, especially in the joints. The worm eventually emerges from the body, causing open sores, fever, and vomiting. The individual should not pull on the worm as it emerges from the body but visit the local health care facility to ensure appropriate care for the limb where the worm is emerging. It releases embryos when it is expelled, continuing the cycle of development.

Fortunately, occurrences of this disease are declining. Care should be taken to avoid drinking or standing in infected water for the decline of this disease to continue. A very common way of contracting schistosomiasis and guinea worm is by standing in contaminated water, as the snails and worms can penetrate the skin. People should avoid standing in ponds, rivers, and other sources of surface water in areas where these parasites are common.

The germs that cause cholera are spread in areas where proper sanitation facilities are not available. A water source for drinking should be chosen to avoid ingesting bacteria and parasites that cause water-borne diseases. It is important to avoid standing in contaminated water to reduce the risk of ingesting bacteria and parasites.

When it comes to our physical nourishment, we must also be careful our sources are pure and do not cause us to become ill.

Parasites, water, sanitation and hygiene are key elements of our physical nourishment. When it comes to our health and survival, we need to be careful our sources are pure and do not cause us to become ill.
Water, Sanitation and Hygiene Sermon

Surfaces humans touch, seats people live on, food or other
trash, using latrines that properly dispose of hu-
man waste, and keeping animal waste cleared from
areas where people live

Question 4: Why should we try to control the popu-
lation of mosquitoes?

Response: mosquitoes carry dangerous diseases.

Question 2: Why are flies dangerous?

Response: flies lay eggs in water, garbage, or meat. Reducing

Question 1: What is the point of trapping water?

Response: to hold water, use a cup or scoop to remove water from containers with
taps or containers.

Question 3: How should water be stored in the
home?

Response: where flies can breed.

Question 5: What can happen if water is left inside or outside of the home?

Response: mosquitoes need water to breed.

Question 6: Why are flies dangerous?

Response: Flies lay eggs in water, garbage, or meat. Reducing

Discussion Questions from Khutbah 4

Question 1: What can happen when water sources in
the home and surrounding the home are left uncov-
ered?

Response: Mosquitoes need water to breed. Leaving

Question 2: Why should we try to control the popu-
lation of mosquitoes?

Response: Mosquitoes carry dangerous diseases.

Question 3: How should water be stored in the
home?

Response: Water should be stored in containers that have a
tap or scoop to remove water from containers with
taps or containers.

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In addition to providing a breeding ground for mosquitoes, water stored in open containers in our homes can easily become contaminated with germs, because we might introduce germs into the water.

Water should be stored in containers with spouts or taps or spigots for dispensing it. You also have a duty to inspect the outside of your property for places where water can collect. There are other dangers inside and outside our homes and communities, carrying diseases from one family to another. Everyone in the family is unaware of the danger the uncovered container of water poses and they mean no harm to people living in the home and to their neighbors living close by.

One of those habits that we may not realize is dangerous is leaving containers of water for cooking and cleaning uncovered in our homes. Mosquitoes breed in water and lay their eggs on top of standing water. Uncovered containers of water for cooking and drinking is Leaving containers of water in our homes and our community can easily become contaminated with germs, which can cause disease.

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Water, Sanitation and Hygiene Sermon Guide

Home will reduce the presence of germs that cause illness.
Removing garbage and using latrines that provide protection from flies will help reduce breeding areas and the population of flies near humans. People should follow the directions of the Ministry of Health in their area for how to get rid of waste, which may include disposal at a landfill or composting spot. Composted materials can regenerate poor soils and the composting process encourages the production of beneficial micro-organisms. Composting also helps reduce pollution by diverting material from landfills.

While garbage is being stored prior to disposal or collection, it should be stored in garbage cans or other containers with lids to keep flies out. If garbage is collected by a municipality, containers should be large enough to store all the waste that accumulates in between collection days.

The Danger of Malaria

Malaria is a dangerous infectious disease that is often fatal. Although it can strike anyone, it is especially dangerous to young children, pregnant women, and anyone with a chronic illness or weakened immune system. While we have medicines to treat malaria, some strains of malaria are becoming resistant to drugs, making the disease more difficult to treat. There are currently no vaccines to test malaria, which makes it difficult to prevent.

Malaria is caused by a parasite that is transmitted through bites by infected mosquitoes. Once in the human body, the parasites live and multiply in the liver and then infect red blood cells, making causes fever, headache, and vomiting, and if not treated, can quickly become fatal. Ask Allah for forgiveness and health, for after being granted certainty, one is given nothing better than health. Scripture

Sermon Starter 4: From Our Households to Our Communities

Scripture

“Ask Allah for forgiveness and health, for after being granted certainty, one is given nothing better than health.”

Dengue Fever

Dengue fever is transmitted by the bites of mosquitoes infected with the dengue virus. It can cause either a mild or high fever, severe headache, pain behind the eyes, muscle and joint pain, and a rash. Dengue hemorrhagic fever (fever with abdominal pain, vomiting, and bleeding) mainly affects children and can be fatal.

The incidence of dengue fever has increased over recent decades, and half the world’s population is now at risk of the disease. The World Health Organization estimates there may be 50 to 100 million dengue infections worldwide each year. If someone in your congregation or community becomes ill and you suspect malaria or dengue fever, it is important to visit the local health care facility for timely and appropriate treatment.
Keeping a clean environment is crucial in preventing the spread of diseases.

Everyone needs to be careful about water storage vessels that have wide openings, as mosquitoes can lay their eggs in these locations. To prevent mosquito breeding, we can reduce the chance of disease transmission in homes and communities by limiting their ability to reproduce. Female mosquitoes can lay 50 to 200 eggs at a time, which are laid directly on the water and float on top. Keeping containers of water in the home covered prevents mosquitoes from laying their eggs in the water and also keeps dirt, food particles, and other substances that may carry disease out of the water.

In addition, the inside and outside of homes should be kept clean and clear of garbage as much as possible. Properly disposing of garbage, either in a container or in a manner that prevents flies from breeding, is crucial.

Water, sanitation, and hygiene are key factors in preventing water-borne infections and thus reducing the transmission of water-borne diseases. Adequate sanitation and clean water will prevent and stop the transmission of diseases, which is not our goal. Controlling water contaminants in the home and community can be done by ventilating and draining any standing water, covering water containers, and ensuring that there is no standing water inside or outside the home.

The following steps can keep the latrine clean and encourage its use:

1. Make sure there is no trash on the floor of the latrine.
2. Clean the walls, floor, and door of the latrine regularly.
3. Make sure any cracks in the walls, floor, door, and roof are repaired.
4. Make sure the latrine is properly ventilated.
5. Pour lime down the latrine regularly to kill mosquitoes.
6. Cover the latrine vent with a fly screen.
7. Keep soap or ash and a water supply near the latrine for hand-washing.
8. Cover the latrine with a lid whenever possible.

Protecting the environment from mosquitoes and flies is crucial in maintaining a healthy immune system. With proper hygiene practices and a clean environment, we can prevent the spread of diseases and maintain a healthy lifestyle.
Latrine use is necessary to keep germs and parasites operating. These facilities must be kept maintained and clean. We know we will be more likely to use the facilities if they are clean. Having a private facility to relieve oneself and for personal hygiene is crucial to their education and encouraging them to stay in school. Remember, the seeking of knowledge is obligatory, and we must do all we can to enable our boys and girls at school, and facilities for our households, places of worship, and businesses. It is important to keep a latrine clean. When we clean the latrine, we must make sure there is no trash on the floor, and clean the walls, floor, and door of the latrine. We must also repair any cracks in the walls, floor, door, and roof, and make sure the latrine is properly ventilated. We must control mosquitoes with lime or another substance. The latrine vent should have a properly functioning fly screen. And finally, while it is very important to keep the latrine clean, it is critical that we wash our hands while using the latrine. It is important to prepare food.

- Question 1:
  - Response:

Discussion Questions from Khutbah 3

Question 1: How would a man know where to best place a latrine for use by a girl or female teacher? A girl or female teacher has more knowledge of the types of latrines that would make a girl more comfortable and help encourage her to attend school. We must listen to the counsel of the young girls and female teachers, who can give us the best advice on where to place a latrine. We should set a schedule for who is going to clean the latrines; there is no reason the same person must do it all the time. Keep the latrine clean. We must perform checks on the latrine, make sure there is no trash on the floor, and clean the walls, floor, and door of the latrine. We must also repair any cracks in the walls, floor, door, and roof, and make sure the latrine is properly ventilated. We must control mosquitoes with lime or another substance. The latrine vent should have a properly functioning fly screen. And finally, while it is very important to keep the latrine clean, it is critical that we wash our hands while using the latrine. It is important to prepare food.

- Question 2:
  - Response:

Discussion Questions from Khutbah 3

Question 2: Why is it important to keep a latrine clean and maintainable? A latrine is not only important for personal hygiene, but it is also essential for maintaining cleanliness with spiritual purity. It is important to keep our physical health. To remove germs that make us sick, we must wash our hands with soap or ash after every time we use a latrine. It is important to prepare food.

- Question 3:
  - Response:

Discussion Questions from Khutbah 3

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- Question 6:
  - Response:

Discussion Questions from Khutbah 3

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- Question 7:
  - Response:

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Water, Sanitation and Hygiene Sermon Guide

Girls can do just as well as boys in school.

If they are given the right environment, opportunities, and facilities.

Girls and boys should be kept clean. Latrines should be designed to ensure proper facilities that are equally comfortable for boys and girls.

Keeping Latrines Clean

Installing latrines is an important first step in reducing illness spread from contact with human waste, but they must also be kept clean and maintained so people will use them. Germs can live on surfaces in the latrine and unpleasant odors and appearances may discourage their use.

The following steps can keep the latrine clean and encourage people to use them:

• Make sure there is no trash on the floor
• Clean the walls, floor, and door of the latrine regularly
• Make sure any cracks in the walls, floor, door, and roof are repaired
• Make sure the latrine is properly ventilated
• Pour lime down the latrine regularly to kill mosquitoes
• Keep soap and a water supply near the latrine for hand-washing.

In addition to cleaning the latrine, the following maintenance inspections should be performed at least monthly:

• Inspect the vent pipe and the fly screen on the latrine vent to make sure they are not corroded or damaged.
• Make sure rain water drains away from the latrine.
• Make sure pit latrines are not full.

Although the responsibility can be shared equally among community or household members, it should be clearly defined how the responsibility for cleaning latrines will be delegated to ensure proper follow-through.

Wash Hands after Latrine Use

It is very important to wash hands with soap or ash after activities like using the latrine or cleaning a child’s bottom. That way any germs or parasites present in feces will be removed immediately, and diseases will not be transmitted from the hands to the mouth when food is eaten or prepared.

Khutbah Starter 3: Our Duty to Seek Knowledge

Scripture

“The seeking of knowledge is obligatory for every Muslim…” (Hadith; Al-Tirmidhi, 74)

From the Quran: “…do not approach prayers with a mind befogged, until you can understand all that you say…” (Qur’an 4:43)

Allah expects us to seek knowledge and gain an education. Using our intellectual gifts and seeking to learn is not only important in religious studies and in education, but also to improve our daily lives. A deep knowledge of our surroundings will help us to make better decisions and live more fulfilling lives.

Girls can do just as well as boys in school if they are given the right environment, opportunities, and facilities.
parasites that cause diarrhea, use a sanitary latrine or toilet every time, and wash your hands afterwards and before eating or preparing food.

Question 6: What can you do if your community does not have latrines?

Response: You can work with community leaders and public health officials to help educate community members about the need for latrines and carry out research on the different types of latrines available to determine which type is right for your community.

Khutbah 3: Our Duty to Seek Knowledge

Human waste reduces hygiene and disease.

Proper latrine use greatly reduces contamination of local water. Gaining access to a latrine with hand-washing facilities means that there is no direct contact with human waste. Rain washes the germs from soil into wells and streams and contaminates the water used for drinking.

If people defecate in the open or near water, the germs spread to people. If people defecate in the open or near water, just as many germs and parasites are there as in dirt. This is not true. The excrement of a child contaminates the water as much as the excrement of an adult. Just as many germs and parasites are found in the water. By disposing of human waste properly, we also reduce contamination. Excretion of parasites that can be deadly such as cholera, dysentery, schistosomiasis, and other diseases that cause diarrhea, gels, and water supplies by supplying soft latrines.

Khutbah 4: Our Duty to Share

Schools with separate latrines for boys and girls reduce girls' drop-out rates. Latrines keep communal latrines and home latrines clean and wash hands after every use.

Reduced disease transmission saves lives. Safe latrines also help to improve the health and sanitation of women and girls and diminish the spread of many diseases. By reducing the spread of disease, we also reduce the burden on health care facilities.

Question 6: Does the use of latrines increase the cost of living for people in your community?

Response: You can work with community leaders and public health officials to help educate community members about the importance of latrines and how they can improve the health and well-being of the community.
What can we do to avoid the spread of dangerous diseases? How can human waste make a person sick? Why is it dangerous for people to relieve themselves wherever they feel the need? What is diarrhea and why is it dangerous? What is diarrhea and why is it dangerous? What is diarrhea and why is it dangerous? What is diarrhea and why is it dangerous? What is diarrhea and why is it dangerous?

Response: To help stop the spread of germs and infections that cause diarrhea, we must ensure that our drinking water is safe and fresh. We must also make sure that our food is clean and free of germs, and that we wash our hands and clothes after using the toilet or touching human waste.

Question 1: Which diseases are caused by human waste? Response: Human waste can cause many diseases, including cholera, dysentery, and typhoid fever. These diseases are caused by germs that are present in human waste and can spread to people through contact with the waste. If people do not use latrines or toilets, they can spread these diseases to others.

Question 2: What are the symptoms of diarrhea? Response: Diarrhea is a common symptom of many diseases, including dysentery and cholera. It can cause loose or liquid stools, and can lead to dehydration and other health problems. If you think you or someone in your household is suffering from diarrhea, you should visit the local health care facility for treatment.

Question 3: How can human waste make a person sick? Response: Human waste can cause serious illnesses and even death. Germs in human waste can enter the body through the skin, eyes, or nose, causing diseases such as cholera and dysentery.

Question 4: How can we stop the spread of germs and infections? Response: We can stop the spread of germs and infections by using latrines or toilets, and by washing our hands and clothes after using the toilet. We can also make sure that our drinking water is safe and fresh, and that our food is clean and free of germs.

Question 5: What is diarrhea and why is it dangerous? Response: Diarrhea is a common symptom of many diseases, including dysentery and cholera. It can cause loose or liquid stools, and can lead to dehydration and other health problems. If you think you or someone in your household is suffering from diarrhea, you should visit the local health care facility for treatment.

Discussion Questions from Khutbah 2

Question 1: How can community leaders work with kindergartens and schools to reduce the rate of girls who drop out of school? Response: Community leaders can work with kindergartens and schools to reduce the rate of girls who drop out of school by providing education and support to girls, and by creating a safe and healthy environment for girls to learn in.

Question 2: How can we protect ourselves from contamination by human waste? Response: We can protect ourselves from contamination by human waste by using latrines or toilets, and by washing our hands and clothes after using the toilet. We can also make sure that our drinking water is safe and fresh, and that our food is clean and free of germs.

Question 3: How can we stop the spread of germs and infections? Response: We can stop the spread of germs and infections by using latrines or toilets, and by washing our hands and clothes after using the toilet. We can also make sure that our drinking water is safe and fresh, and that our food is clean and free of germs.

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Water, Sanitation and Hygiene Sermon Guide

的良好健康是政府应钦佩和维护的。在Podri, 传感器和水疗设备将为该国人民提供健康的饮用水和合适的卫生设施，这将有助于减少疾病，促进村民的健康和福祉。然而，这一切都有赖于我们今天的行动和决策。

Sermon Starter 2: Health for Body and Soul

Scripture:

*Ask Allah for forgiveness and health, for after being granted certainty, one is given nothing better than health.* (Related in Tirmidhi Hadith)

*“No one will be allowed to move from his position on the Day of Judgment until he has been asked how he spent his life, how he used his knowledge, how he earned and spent his money and in what pursuits he used his health.” (Related in Tirmidhi Hadith)*

*“But those who have faith and work righteousness, they are Companions of the Garden: therein shall they abide (for ever). And remember We took a Covenant from the Children of Israel (to this effect): worship none but Allah; treat with kindness your parents and kinred, and orphans and those in need; speak fair to the people; be steadfast in prayer; and practice regular charity...” (Qur'an 2:82-83)*

The Prophet Muhammad (PBUH) shared much wisdom and gave us guidance on how to live our lives. In the Tirmidhi Hadith, the Prophet (PBUH) speaks of two of the most critical aspects of life: the first is our relationship with Allah and the importance of His forgiveness, and the second is the gift of health. The Prophet (PBUH) is quoted as saying, “Ask Allah for forgiveness and health, for after being granted certainty, one is given nothing better than health.” (Related in Tirmidhi Hadith)

This is a powerful statement. We recognize the importance of forgiveness in the eyes of Allah. For the Prophet (PBUH) to value health second only to forgiveness from Allah tells us how much we should treasure our physical health during our life here on earth.

It is also related in the Tirmidhi Hadith that the Prophet (PBUH) said our health is an important asset to be used wisely and we will be judged on how we put our good health to use while on earth. The Prophet (PBUH) said, “No one will be allowed to move from his position on the Day of Judgment until he has been asked how he spent his life, how he used his knowledge, how he earned and spent his money and in what pursuits he used his health.”

Notice he says “in what pursuits he used his health.” The Prophet (PBUH) is telling us that our health is an asset, a strength, to be used wisely. We are able to accomplish much more and serve Allah and those around us when we are empowered by the benefit of good health.

Allah expects us to complete good works and regular acts of charity. In the Qur’an, He reminds us of the Covenant that guides our behavior and how we will be rewarded. He tells us: “But those who have faith and work righteousness, they are Companions of the Garden: therein shall they abide (for ever). And remember We took a Covenant from the Children of Israel (to this effect): worship none but Allah; treat with kindness your parents and kindred, and orphans and those in need; speak fair to the people; be steadfast in prayer; and practice regular charity...”

The water table must be at least 20 feet below the surface of the ground for proper ventilation and easy access to remove the compost, which will make it necessary to have steps or a ramp leading up to the latrine.

When one pit becomes full, it is covered with soil for at least a year for the excreta to break down and become less harmful, while people use the other pit to relieve themselves. After a year, the dry compost is dug out of the first pit and the pit can be used again as a latrine. Organic waste should be added daily to help the excreta break down, and ash should be added to help remove odors.

Aquaprivies

The aquaprivy is a tank filled with water where the waste falls. A drop pipe reaches below the surface of the water in the tank to prevent odors from escaping. The tank must be watertight to keep the groundwater from being contaminated and should be emptied approximately every three years. The aquaprivy does not have problems with flies or odors and it can be connected to a sewage system if the community later decides to construct one. However, aquaprivies may be more costly to build than other latrines.

Septic Tanks or Sewage Treatment Systems

In addition to the types of latrines discussed above, communities may consider using septic tanks or sewage treatment systems. Both of these systems are considerably more costly than the latrines described above and require large amounts of water to function properly.

Whichever type of latrine your community chooses, using a sanitary latrine for defecation is a step in the right direction to maintain village cleanliness, establish self-pride and decrease the chance of contracting diarrheal infections.
A household uses the arbor loo for one year, and then the slab is removed, the pit is topped with good topsoil, and a fruit tree seedling or other crop is planted in the topsoil. The roots grow down into the pit and take up rich nutrients.

Ventilated Improved Pit (VIP) and Reed's Odorless Earth Closet Latrines

The Ventilated Improved Pit and the Reed's Odorless Earth Closet are types of pit latrines that use a vent pipe to remove the smells and flies from a latrine. They are similar to the simple pit latrine, however, the pit of a Reed's Odorless Earth Closet is completely separated from the slab and connected to it by a chute, while the pit in a Ventilated Improved Pit is generally located directly under the slab cover.

Human waste is collected in a pit which has a vent covered by a fly-proof screen at the top. In these latrines, air circulates down the hole or chute, into the pit and up through the vent pipe, which is inserted into the shelter and plowed over the seat hole or seat so that air can flow freely over the seat. The screen is kept dry so that flies cannot enter the latrine. No cover should be placed over the squat hole or seat so that air can flow freely through the screen.

The shelter for the latrine must be kept semi-dark so that flies are attracted to the light from the vent pipe and become trapped. These latrines improve the problem of odor and flies common with simple pit latrines, but since they must be kept partially dark to help remove flies, people may be discouraged from using them. They also require more maintenance than a simple pit latrine to make sure the vent pipe is in good working order. Obtaining a durable fly screen for the vent pipe may also be a problem with the Ventilated Improved Pit and the Reed's Odorless Earth Closet.

Composting Latrine

A composting latrine may be appropriate for areas where human waste is used as fertilizer along with waste from food preparation. Urine should be collected separately because the material in the latrine must be kept as dry as possible.

To construct a composting latrine, two shallow pits or vaults are dug for human waste. The pits must be constructed above ground level to allow for proper ventilation and to facilitate proper drainage. The pits are filled with dry leaves, grass, and other organic material. When the pit is full, it is covered to allow the material to decompose. The compost is then removed and reused as fertilizer.

Source: World Health Organization's Fact sheets on environmental sanitation
Diarrhea kills more than 3,000 children each day, more than AIDS, malaria, and measles combined.

If a person feels he or she or a child has become ill with diarrhea, it is important to visit the local health care facility for timely and appropriate treatment, which usually includes oral rehydration therapies. These therapies generally include drinking a solution known as oral rehydration salts solution and often supplementing with zinc, which helps to replenish vital sources of minerals into the body that have been depleted due to the diarrhea.

To protect communities from diarrhea, it is necessary to prevent the soil and water sources from being contaminated by the germs carried in human waste. Latrines or toilets are the best defense against contamination. Studies show that improved sanitation reduces death rates from diarrhea by one-third.

In addition, providing people with privacy for the personal act of relieving themselves and keeping human waste separate from where residents work, cook, and play also helps maintain dignity and pride in a village.

Types of Latrines

- Simple Pit Latrine
- Arbor Loo
- Compost Latrine
- Earthen Vault Latrine
- Conventional Water Closet

Simple Pit Latrine

The simplest and least expensive type of latrine is the simple pit latrine. The pit is dug in the ground and covered with a slab or floor. The slab has a hole through which excreta falls into the pit. A seat or squat hole with footrests can be installed, and there should be a lid to cover the hole. The latrine should be downhill from a water source to prevent water contamination. The pit should be at least 2 meters from a water source, at least 20 meters from the house, and at least 50 meters from any household well. The pit should be at least 2 meters above the water table in an area that is well-drained. It is critical that a pit latrine be located downhill from a water source and from the home, which helps to prevent water contamination.

Arbor Loo

The Arbor Loo is a recent enhancement of the simple pit latrine. It is helpful to the environment because it will eventually become a site for a fruit tree. To create an arbor loo, dig a pit 80 centimeters deep with 60 centimeters in circumference and add dry leaves to the bottom. After each use, add a mixture of soil and ash to encourage soil composting. The latrine should be downhill from the water source and from the home, which helps to prevent water contamination. It is helpful to the environment because it will eventually become a site for a fruit tree. After each use, add a mixture of soil and ash to encourage soil composting.

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Arbor Loo

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Compost Latrine

The compost latrine is a type of latrine that uses natural composting to break down human waste into rich soil. The compost latrine is an environmentally friendly option for those who want to reduce waste and reuse organic materials. The compost latrine is a simple and inexpensive option that can be built in a variety of settings.

Earthen Vault Latrine

The earthen vault latrine is a type of latrine that uses a vault or chamber to store human waste. The vault is typically made of earthen materials and is designed to hold human waste for a period of time before it is disposed of. The earthen vault latrine is an effective option for those who want to reduce waste and reuse organic materials. The earthen vault latrine is a simple and inexpensive option that can be built in a variety of settings.

Conventional Water Closet

The conventional water closet is a type of latrine that uses water to flush human waste into a下水道 or septic tank. The water closet is an effective option for those who want to reduce waste and reuse organic materials. The water closet is a simple and inexpensive option that can be built in a variety of settings.

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Allah is most merciful and forgives our sins when we repent. Before we can expect forgiveness, however, we must recognize our sins, admit them, and ask for forgiveness. This cleansing will help us remain spiritually healthy. Cleansing our hands will help protect our bodies. Before we can expect forgiveness, we must first recognize our sins, admit them, and seek forgiveness. How can we expect forgiveness if we do not repent of our sins? We can expect forgiveness when we repent of our sins and ask Allah to forgive us.

Discussion Questions from Khutbah 1

Question 1: What diseases can we spread when our hands are not clean? How can the diseases exist on our hands?

Response: Respiratory illnesses, like pneumonia; measles; eye and skin infections; stomach and intestinal infections; and parasites can all be spread by unclean hands. The diseases are caused by tiny organisms called germs that live on our hands and are too small to see.

Question 2: Why are these diseases dangerous?

Response: Pneumonia and other respiratory illnesses are the leading cause of death in children. Diarrhea is also very dangerous and kills 3,000 children in the world each day. Intestinal worms make people very weak and can keep children from growing and learning as they should. Eye infections can cause blindness, and skin infections can be very painful. Respiratory and diarrheal diseases can lead to debilitation and death in adults also.

Question 3: How do dirty hands spread these diseases?

Possible Answer: Some of these diseases are caused by germs, either viruses or bacteria. Other diseases are caused by parasites. When we touch unclean surfaces or fecal matter, we can pick up germs and parasite eggs. If we do not wash our hands immediately, we can become sick ourselves or transmit these germs and eggs to other people.

Question 4: When should we wash our hands?

Possible answer: Wash your hands with soap or ash after using the latrine or cleaning a child’s bottom, and before handling food. That way any germs or parasites present in feces will be removed immediately, and you will not transmit any diseases from your hands to your mouth while eating, or to the food you prepare for others.

Question 5: How should you wash your hands? Do you have to use soap?

Response: Yes, you must use soap, or ash, if soap is not available, to effectively remove germs. Follow these 4 steps:

1. Cover wet hands with soap or ash, if soap is not available.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

Question 6: How else can we contract intestinal worms besides by ingesting the parasite eggs?

Response: Intestinal worms can enter the body through the feet. We must always wear shoes.

Khutbah 2: Guarding the Body

Message: Using a latrine, instead of defecating in the open, can reduce diarrheal infections.

Use a latrine to stop spread of disease. In the open, can reduce diarrheal infections.

Wash your hands with soap or ash, if soap is not available, to effectively remove germs. Follow these 4 steps:

1. Cover wet hands with soap or ash, if soap is not available.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
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4. Dry either with a clean cloth or by waving in the air.

Question 6: How else can we contract intestinal worms besides by ingesting the parasite eggs?

Response: Intestinal worms can enter the body through the feet. We must always wear shoes.

Diarrhea is a symptom of many of the diseases caused by germs and parasites carried in human waste. Water contaminated with human waste can transmit diarrheal infections, cholera, dysentery, typhoid, and hepatitis A. Diseases linked to poor sanitation, poor hygiene, and unclean conditions are leading causes of death in children. Diseases transmitted through contaminated water and food are the leading cause of death in children. Diseases can spread when we use unclean hands to handle food or to prepare food for others. Cut or injured hands can carry germs that can spread to other people.

Question 7: How do we wash our hands?

Possible: Wash your hands with soap or ash, if soap is not available, to effectively remove germs. Follow these 4 steps:

1. Cover wet hands with soap or ash, if soap is not available.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

Question 8: Why are these diseases dangerous?

Response: Pneumonia and other respiratory illnesses are the leading cause of death in children. Diarrhea is also very dangerous and kills 3,000 children in the world each day. Intestinal worms make people very weak and can keep children from growing and learning as they should. Eye infections can cause blindness, and skin infections can be very painful. Respiratory and diarrheal diseases can lead to debilitation and death in adults also.

Question 9: How do dirty hands spread these diseases?

Possible Answer: Some of these diseases are caused by germs, either viruses or bacteria. Other diseases are caused by parasites. When we touch unclean surfaces or fecal matter, we can pick up germs and parasite eggs. If we do not wash our hands immediately, we can become sick ourselves or transmit these germs and eggs to other people.

Question 10: When should we wash our hands?

Possible answer: Wash your hands with soap or ash after using the latrine or cleaning a child’s bottom, and before handling food. That way any germs or parasites present in feces will be removed immediately, and you will not transmit any diseases from your hands to your mouth while eating, or to the food you prepare for others.

Question 11: How should you wash your hands? Do you have to use soap?

Response: Yes, you must use soap, or ash, if soap is not available, to effectively remove germs. Follow these 4 steps:

1. Cover wet hands with soap or ash, if soap is not available.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

Question 12: How else can we contract intestinal worms besides by ingesting the parasite eggs?

Response: Intestinal worms can enter the body through the feet. We must always wear shoes.

Poor Sanitation SpreadS diSeaSe

Sanitation, using proper latrines or toilet facilities to safely dispose of urine and feces, is critical to our health. Without adequate facilities, people are forced to defecate in the open, sometimes near where children play or food is prepared. 10 million viruses, 1 million bacteria, 100 worm eggs, 1000 parasite cysts, all of these can make us sick.

Just one gram of human feces may contain:

- 10 million viruses
- 100 worm eggs
- 1000 parasite cysts
- 1 million bacteria

Some parasites can enter the body through the mouth while eating. These diseases are transmitted through the contaminated water, food, and hands of people who later ingest them when they drink or eat food that has been contaminated. When we lack clean water and good waste management, the germs in our hands contaminate the water we use to drink and wash. Poor sanitation can spread diseases through contaminated water, food, and hands.
Handwashing for Protection

Physical Cleansing

4. Dry with toilet paper (not Towels)
3. Cover mouth with soap or ash before blowing nose
2. Cover mouth with soap or ash before sneezing or coughing into your hands
1. Cover mouth with soap or ash before sneezing or coughing into your clothes

Pause for Reflection and Spiritual and Physical Cleansing

Our relationship with Allah must also remain cleansed in the same way. Allah’s words in the Qur’an tell us:

“Allah accepts the repentance of those who do evil in ignorance and repent soon afterwards; to them will Allah turn in mercy: for Allah is full of knowledge and wisdom.” (Qur’an 5:6)

The cleanliness resulting from washing before prayer prepares for prayer, wash your faces and your hands (and arms) to the elbows; rub your heads (with water); and (wash) your feet to the ankles….Allah does not wish to place you in a difficulty, but to make you clean, and to complete his favor to you that you may be grateful.” (Qur’an 4:4)
It is important that an individual who is ill or suspected to be ill with any of the above described illnesses is brought to the local health care facility to receive appropriate and timely care.

When to Wash Your Hands

The critical moments to wash your hands with soap or ash are after using the latrine or cleaning a child’s bottom, and before handling food.

That way any germs or parasites present in feces will be removed immediately, and we will not transmit any diseases from our hands to our mouth when we eat, or to the food we prepare for others.

How to Wash Your Hands

Follow these steps to get hands clean and kill germs that cause disease:

1. Cover wet hands with soap or ash.
2. Scrub all parts of the hands, including palms, backs of the hands, between the fingers, and especially under the fingernails, for at least 20 seconds.
3. Rinse with running water (instead of using still water).
4. Dry either with a clean cloth or by waving in the air.

To help people get a good idea of how long 20 seconds is, find a short song that takes 20 seconds to sing, or memorize a favorite scripture from the Qur’an that lasts for 20 seconds when you say it out loud. You can also recommend people count slowly to 20. Whatever you choose, make sure it last about 20 seconds.

Importance of Hand-washing in Islam

Health experts recommend that people wash their hands with soap for at least 20 seconds at specific times, such as before handling food and after using the latrine to remove germs or parasites. Islam is consistent and supportive of these recommendations by requiring hand-washing at important times during the day. The Qur’an instructs Muslims to wash their hands and perform ablution (istiḥabl) with water. The hadith also mentions the importance of washing hands before prayer to make them clean and to complete the ablution.

Khutbah Starter 1: Cleansing the Body

Scripture

“Allah accepts the repentance of those who do evil in ignorance and repent soon afterwards; to them will Allah turn in mercy: for Allah is full of knowledge and wisdom.” (Qur’an 4:17)

“… when you prepare for prayer, wash your faces and your hands (and arms) to the elbows; rub your heads (with water); and (wash) your feet to the ankles….Allah does not wish to place you in a difficulty, but to make you clean, and to complete His favor to you that you may be grateful.” (Qur’an 5:6)

“O you who believe! do not approach prayer with a mind befogged, until you can understand all that you say, - nor in a state of ceremonial impurity…For Allah blots out sins and forgives again and again.” (Qur’an 4:43)

Since we are human, we are destined to make mistakes. Mistakes are an unavoidable part of life. Fortunately, Allah’s mercy for us is great, and He forgives our sins. But we cannot sin knowingly, fail to repent, and expect spiritual purity.

Have you ever been wronged by someone in your family, like a brother? Imagine your brother took something that belonged to you. What would you do? Would you stay calm and try to understand his actions, or would you get angry and retaliate? The same principle applies to the way we respond to spiritual and physical challenges. When we face difficulties and challenges, we should turn to Allah for guidance and support. By submitting to Allah and seeking His help, we can overcome obstacles and reach our goals.

When to Wash Your Hands

Food we prepare for others.

Food poisoning is caused by eating food that is not cooked properly. It is important to wash your hands immediately after coming into contact with raw meat or other substances that may contain bacteria. This includes washing your hands before preparing food, after handling raw meat, and after using the toilet. By washing your hands properly, you can help prevent the spread of disease and save lives.
Respiratory Illnesses

Respiratory illnesses, such as pneumonia, are the leading cause of death in children. We spread respiratory illnesses when we touch surfaces, such as door knobs and handles, in common areas and leave germs. These germs can live for two hours or longer on these surfaces and spread disease to others when they touch the same surface and touch their eyes, mouth, and nose.

Evidence suggests that hand-washing after using the latrine and before eating could cut the infection rate by about 25 percent in everyone and by 50 percent in children under 5 years of age.

Intestinal Worms

Intestinal worms, also known as soil-transmitted helminths, can cause diarrhea, abdominal pain, and overall weakness, inhibit our ability to work, and keep children from learning and growing as they should. People infected with intestinal worms carry the parasite’s eggs in their feces. The soil and water in the area where they live can become contaminated with the eggs if waste is not disposed of properly. Children playing outside can get the eggs on their hands in their mouths before they wash them. Soaps and other hand-washing products can get the eggs on their hands and fingers, allowing them to enter the body through the skin or into the body through the mouth.

Washing hands with soap or ash can remove the eggs before they are ingested. In addition to hand-washing, it is very important to wear shoes in order to reduce the potential of eggs burrowing into the feet.

Eye and Skin Infections

An eye infection known as trachoma is the leading preventable cause of blindness in the world. Over one billion people are infected with trachoma, which is spread from person to person by the hands or clothing. Washing hands and faces can help stop the spread of trachoma.

Impetigo is another painful skin infection that is especially common among children. It causes redness and small blisters that crust and erode. Impetigo is another preventable skin infection that is spread from person to person by the hands of a contaminated person. Washing hands before and after diapering can help stop the spread of impetigo and other skin infections like scabies, which can lead to the spread of impetigo and other skin infections.

WHEN TO WASH

BEFORE eating or preparing food
AFTER using the latrine
AFTER cleaning a baby’s bottom

Deady Diarrhea

Diarrhea can be deadly, and it is especially dangerous for children. According to the World Health Organization, diarrhea kills more than 3,000 children every day. The fever and dehydration caused by diarrhea can lead to death within hours. Children under the age of 5 are especially vulnerable to diarrhea because they have a weaker immune system and are more likely to become dehydrated.

Careful hand-washing can reduce diarrhea cases by up to 45 percent. Lack of proper sanitation, and poor hygiene, diarrhea cases. Children under the age of 5. Ninety percent of all deaths from diarrhea are among children under the age of 5. Eighty-eight percent of the children who die from diarrhea contracted the disease from poor drinking water, contaminated food, and poor hygiene. Poor hygiene and contaminated food can also spread diarrhea to others in the home if the infected person washes their hands after using the latrine and before preparing food.

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Fortunately there are steps we can take to protect ourselves, including:

• Using water from protected sources for drinking and cooking,
• Consistent hand-washing after using the latrine and before and after preparing food and eating, and
• Using proper latrines to prevent contamination of soil by human waste.

More specific instructions on how to practice these basic ideas are outlined in the following six messages, which are the basis for the six sermons in this guide.

Six Health Messages Included in the Sample Khutbahs

1. Hand-washing with soap or ash reduces diseases such as diarrhea, respiratory illnesses, and intestinal worms, as well as eye and skin infections. This is especially important before and after cooking and eating, and after using the latrine.

2. Using a latrine, instead of defecating in the open, can reduce diarrheal infections.

3. Keep communal latrines/home latrines clean and wash hands with soap or ash after every use. Schools with separate latrines for boys and girls reduce girls’ drop-out rates.

4. Keep a clean environment, so mosquitoes and flies cannot breed. Remove standing water inside and outside the home and clean up trash around your home.

5. Drinking water from covered boreholes with a hand pump can reduce bacterial infections, which cause cholera and typhoid, and also reduce parasite infection.

6. Don’t drink or bathe in the same water in which animals pass through or drink from.

How to Use this Guide

As a spiritual leader, you have a unique opportunity to encourage behaviors that protect your congregation’s spiritual and physical health. Teaching people how to avoid deadly diseases spread by contaminated water is one of the most important things you can do to help your congregation stay healthy.

This guide contains six sample Khutbahs based on the messages above. You can use them as examples or material to develop your own. Don’t be constrained to only use this guide in front of your congregation. This tool may also be used as a guide during group meetings (youth, men, or women), counseling sessions, and/or home visits. Group discussions about the following six health messages can be used in small groups during group meetings (youth, men, or women) to help people discuss and understand the messages better. Following each Khutbah can be used in small groups to discuss how to incorporate the messages into daily life.

Sample Khutbahs

Khutbah I: Cleansing the Body

Message: Hand-washing with soap stops disease

Washing our hands with soap (or ash) is very important in staying healthy. Our hands can carry viruses, bacteria, and parasites, organisms that are too small to see, that cause diarrhea, respiratory illnesses, eye and skin infections, intestinal worms, and schistosomiasis, which can result in bladder and rectal bleeding.

Using soap or ash breaks down the grease and dirt that carry most of these organisms. Washing our hands with soap or ash, as per the prophet’s teaching, keeps our hands clean and helps prevent disease. Our hands can carry important organisms in any event, so always wash your hands with soap (or ash) prior to any events that affect our health.

Hand-washing with Soap Stops Disease

Hand-washing with soap is effective in stopping disease.

Khutbah II: Cleansing the Body

Message: Hand-washing with soap stops disease

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5. Drinking water from covered boreholes with a hand pump can reduce bacterial infections, which cause cholera and typhoid, and also reduce parasite infection.

6. Don’t drink or bathe in the same water in which animals pass through or drink from.

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Water, Sanitation and Hygiene: What Can We Do to Protect Ourselves from Diseases Spread by Contaminated Water?

Water immediately affects health, economic development and education. People who do not have access to clean drinking water and sanitation facilities are three times more likely to suffer from acute respiratory illnesses. Three billion people, mostly in the developing world, do not have access to clean water. This number is expected to increase to 4 billion by 2030.

Diarrhea kills more than 3,000 children each day. Intestinal worms infect about 10 percent of people in developing nations, and if the case is severe, can lead to malnutrition, anemia, inhibited growth in children, and poor school performance. Six million people in the world have lost their sight due to trachoma, a disease caused by poor hygiene. Two hundred million people are infected with schistosomiasis, a parasitic infection carried by snails found in water, which causes severe problems for 20 million of those infected. Schistosomiasis can cause a rash, fever, chills, cough, affect the brain or spinal cord and cause seizures, paralysis, or spinal cord inflammation.

The deadly diseases of cholera and typhoid are spread in unhygienic conditions and can be prevented by access to safe drinking water, sanitation, and proper hygiene practices. Two of the most deadly are respiratory illnesses, which are the leading cause of child death more children than AIDS, malaria, and measles combined.

The United Nations Secretary General Ban Ki-moon has spoken of the importance of safe drinking water and proper sanitation, saying, "Safe drinking water and adequate sanitation are crucial for poverty reduction, crucial for sustainable development, and crucial for achieving any and every one of the Millennium Development Goals." The goal is to ensure that all people have access to clean drinking water and sanitation facilities.

In 2010, 780 million people in the world were without access to safe water. This number is expected to increase to 750 million by 2030.

Water contaminated with human waste can transmit diarrhea, cholera, dysentery, typhoid, and hepatitis A. Diseases linked to poor sanitation, poor hygiene, and unsafe drinking water affect an estimated 1 in 4 children in the world. The impact of waterborne diseases is enormous: two million children under five years of age die each year from these illnesses, and many more suffer from lifelong illnesses such as blindness, respiratory infections, and malnutrition.

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In 2010, 780 million people in the world were without access to safe water. This number is expected to increase to 750 million by 2030.
Before you can share important health information, you need to become familiar with the topic and learn from research conducted by health experts to ensure you give your congregation accurate information. The guide begins with an overview of the problem and resulting health impact, followed by six chapters addressing a specific health message. The Khutbahs include an introduction explaining the health issue, a sample suggested sermon incorporating the health message and questions for discussion. You may choose to use the suggested sermon as it is written or decide to use it as a resource to develop your own.

Ways to Share Health Messages

There are a number of ways you can share health information with your community:

- Include health-related messages in your sermons as demonstrated in this guide
- Host special sessions on health topics in small group meetings
- Develop a religious school lesson based on a chapter in the guide
- Discuss health matters during home visits and counseling sessions
- Partner with other organizations in your community, such as schools and clubs, to share the messages at their meetings
- Develop your own ways to share the messages with your community

Water, sanitation and hygiene (WASH) are integral components to living a healthy life, and the benefits of improved WASH practices are numerous. Many serious illnesses can be prevented if people use basic WASH practices, which in turn would significantly reduce maternal, infant, and child mortality. Studies have also shown that improved water and sanitation can also help to increase daily productivity and school attendance.

Faith communities and faith-based organizations (FBOs) have the widest reach of any social institution and are deeply embedded in the life of even the most remote, marginalized communities in Africa. Of all the civil institutions in a given country, faith communities and FBOs have the longest sustainability and were present long before any NGOs or other external agencies established themselves in the community. They not only have longevity but also have staying power through conflict, war and natural or manmade disasters.

According to the Association of Religion, 95% of Africans affiliate themselves with a religion – and this affiliation is an opportunity to mobilize faith leaders to become educators and promoters of health issues that impact the lives of the community.

Religious leaders of all faith groups have a tremendous influence on their followers. Bishops, Ministers, Imams and Muftis command an unmatched authority within their constituencies, with strong potential to promote constructive behavior change for the prevention of malaria, for example, or to encourage healthy choices.

Unfortunately, religious leaders face a number of challenges in taking on the issue of their communities’ health as their mandate. They and their constituencies often do not have sufficient and accurate information about the causes and preventive measures, and they may lack appropriate attitudes that could turn the tide of the health of the community.

Religious leaders, though well-versed in their faith scriptures and teachings, need both information about preventative health practices and guidance on how to integrate these messages into their guidance of the faithful as they preach, counsel couples and provide premarital direction and counseling.

The Khutbah Guide has two purposes: 1) to educate religious leaders about key WASH issues, and 2) to provide sermon starters for religious leaders that guide them in incorporating preventative health practices in their sermons/religious discourses and the counseling of couples.

What is a Khutbah Guide?

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† The Association of Religion Data Archives. Department of Sociology. Pennsylvania State University. 2006 Regional Figures.
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Sanitize hand
Communities about water,
Educate congregations and
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