



# Let's Fight Against Mosquitoes

Facilitators Guide  
**SC Johnson Guardian™**

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**This booklet is a guide for community health workers and other facilitators to use in the education and distribution of Guardian™.**

Use this manual to lead discussions on dengue prevention and control measures– in small groups and with households– to change attitudes and behaviors and increase community awareness of tools for dengue eradication.

### Items You Will Need



This guide



Guardian Product Information sheets



Distribution Calculation Worksheet



Sufficient product for number of visits that day



1m  
Measuring tape  
or 1m rope (if available)



A pen

### How you will use the Guide



Talking to small groups



Talking to people in their homes

### Purpose

To deliver general dengue education, Guardian™ product information, and a product distribution plan

Review safety information



The size of the group may vary as appropriate for the community

### Before The Discussions

**1 Plan the place and inform all stakeholders in advance**

**2 Prepare all the tools you need:**



### While Leading Discussions

- Make sure everyone can see each other talking. It is best for people to sit in a circle.
- Before the discussion begins, start by greeting the participants, thanking them for accepting the invitation, and giving everyone time to speak to one other. Feel free to be less formal and do this in a playful way.
- After explaining the topic of the discussion, give participants a chance to discuss the challenges they face in protecting themselves and their families from dengue.
- Encourage active participation from all participants in the discussion. This helps you to understand everyone's point of view and recognize where some may have questions or concerns.
- Let the participants ask you questions, and then before you finish, ask them if they have any other questions
- Use simple words and phrases so that all participants can understand.
- Allow enough time for feedback from participants.
- **Optional:** conduct a demonstration in a home of different ways to measure, use the calculation worksheet, and how/where to hang Guardian™
- Conclude by:
  - Briefly summarizing the discussion and main messages
  - Thanking everyone
  - Agreeing on dates to distribute product to households



### Purpose

To deliver general dengue education, Guardian product, and usage/distribution instructions

Review safety information and answer any questions



### Before each visit

**1** Confirm with the household in advance

**2** Prepare all the tools you need:



### During each visit

- As always in our culture, knock, greet, and ask those you visit to give you a welcome.
- Thank them for their time, tell them the purpose of the visit and the topic you are discussing.
- Use pages of this guide to review dengue, how it spreads, and how to respond to symptoms.
- Provide a review of product information and distribute product.
- Conclude the discussion by thanking them for taking the time to talk to you, promising them you are available if they have any questions or concerns about Guardian or how to use it.

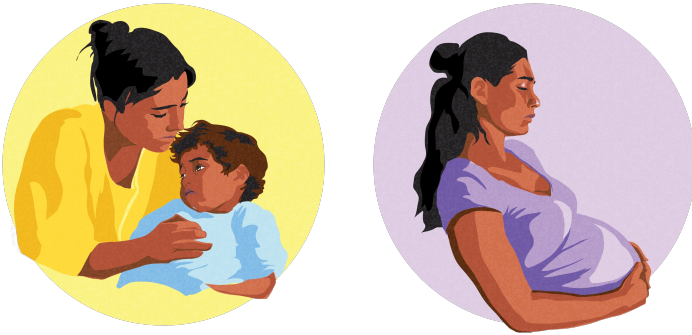
### Distribute product

- Complete Product Worksheet with head of household.
- Then, distribute the correct number of products after all questions have been answered.

# What kind of illness is dengue?



Paper to show the client



What you can discuss

### What is dengue

- Dengue is a viral infection transmitted to humans through the bite of infected mosquitoes.
- Dengue is a viral infection transmitted to humans through the bite of infected mosquitoes.
- Dengue is spread by bites from mosquitoes called *Aedes aegypti* or *Aedes albopictus*.
- A person can be infected with dengue multiple times in their life.

### People with high risk to dengue

- While anyone can contract dengue, those infected for the second time are most likely to have severe dengue.



# Dengue Vector Mosquito





Paper to show the client

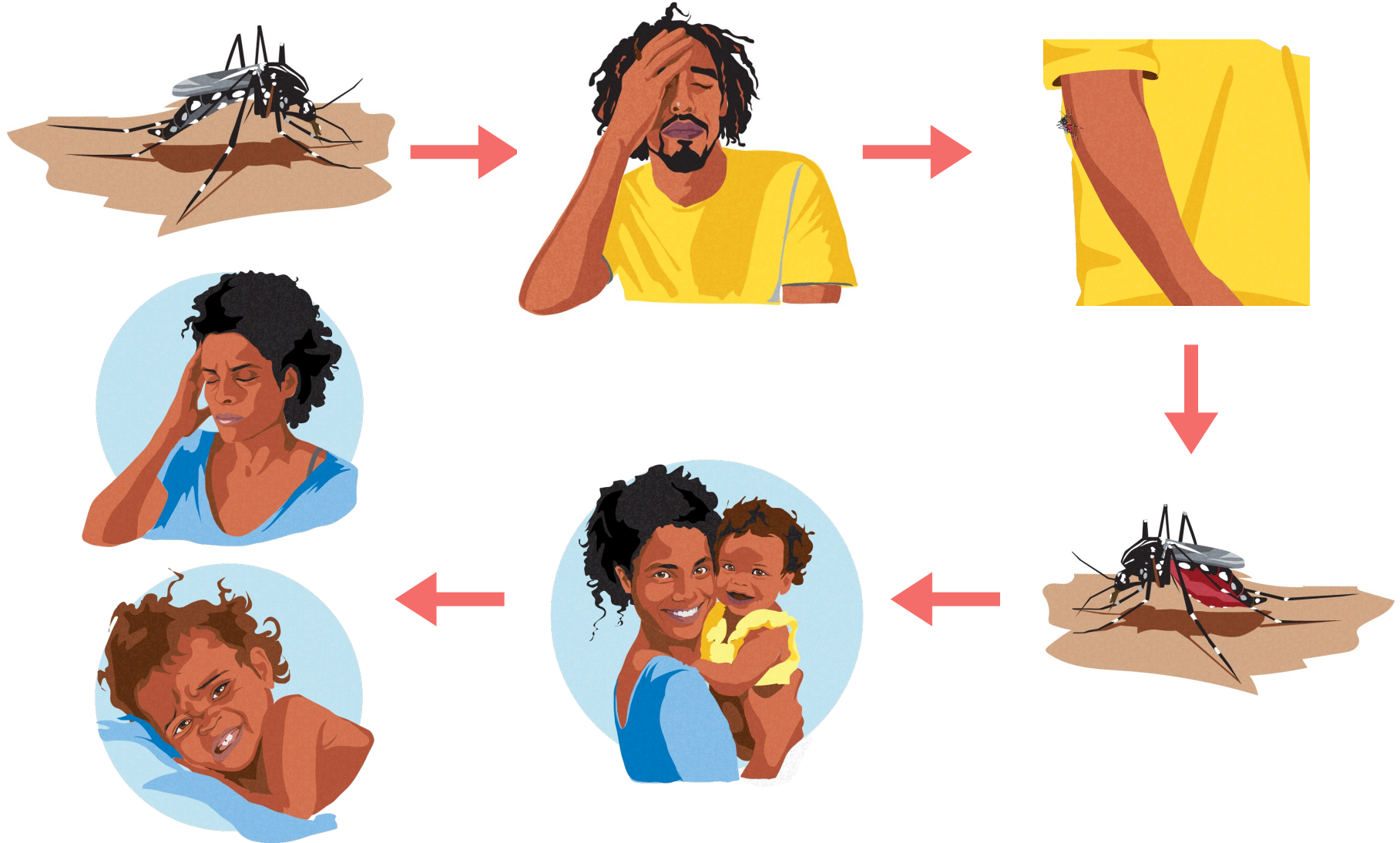


What you can discuss

### What type of mosquitoes spread dengue?

- There are many different types of mosquitoes.
- *Aedes* mosquitoes, specifically *Aedes aegypti* or *Aedes albopictus*, spread dengue.
- *Aedes aegypti* and *Aedes albopictus* stand out from other mosquitoes due to black and white markings on their legs and bodies.
- While they can bite at any time, dengue-causing mosquitoes often bite at dusk and dawn.
- Avoiding mosquito bites throughout the day is very important in preventing dengue.

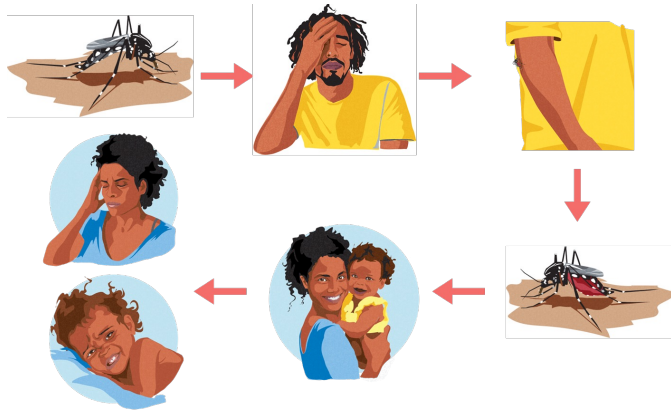
# Transmission of dengue



# What kind of illness is dengue?

FACILITATOR

Paper to show the client

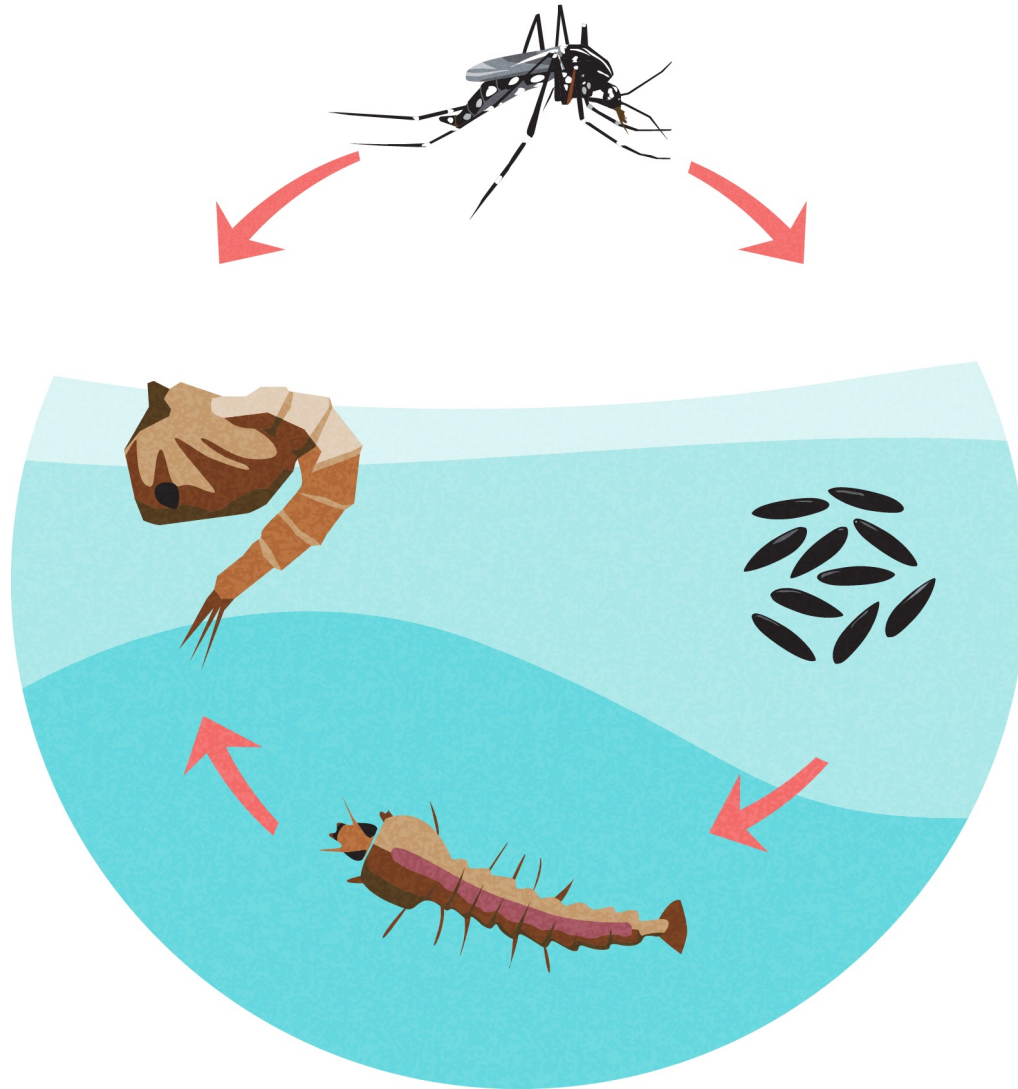


What you can discuss

## Do you know how dengue is transmitted?

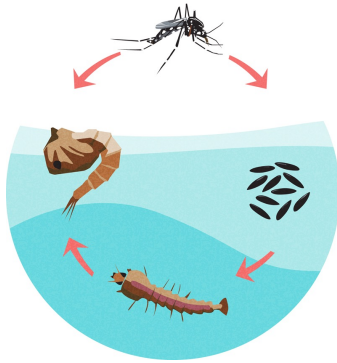
- Dengue is transmitted through mosquito bites.
- Mosquitoes become infected when they bite a person infected with the virus.
- Infected mosquitoes can then spread the virus to other people through bites.
- A pregnant woman already infected with dengue can pass the virus to her baby during pregnancy or around the time of birth.

# Reproduction of dengue vector mosquitoes





Paper to show the client



What you can discuss

### **Do you know how dengue-causing mosquitoes reproduce?**

- Mosquitoes need dirty stagnant water to reproduce.
- Adult female mosquitoes lay their eggs in stagnant pond water, water left in uncovered containers like buckets, bowls, animal dishes, flower pots, and vases, or in very slow-moving water.
- Two or three days later, the eggs hatch and young mosquitoes emerge.
- Small mosquitoes stay on the water and feed.
- After a few more days of growing, the mosquito will fly away.

# Signs and symptoms of dengue



High Fever



Pain Behind Eyes



Severe Headache



Swollen Glands



Nausea



Vomiting



Pains & Aches



Rash

# What kind of illness is dengue?

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Paper to show the client



High Fever



Pain Behind Eyes



Severe Headache



Swollen Glands



Nausea



Vomiting



Pains & Aches



Rash

*When someone is not feeling well and has a high fever, it is not always clear what the cause is, since many diseases tend to show high fever as their initial symptom.*

What you can discuss

## Signs and symptoms of dengue

- High fever (40°C/104°F)
- Severe headache
- Pain behind the eyes
- Muscle and joint pains
- Nausea
- Vomiting
- Swollen glands
- Rash on the body

Ask questions about signs and symptoms of dengue

- Do you know some symptoms of dengue?
- Have you or any member of your family ever suffered from dengue?
- Which symptoms did you notice?
- Can dengue symptoms differ for each person?
- When you experience different symptoms, should you immediately seek a medical diagnosis?
- If you are found positive for dengue should you accept treatment?

# Signs and symptoms of severe dengue



Severe abdominal pain



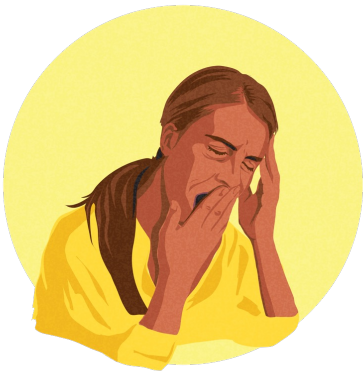
Persistent vomiting



Rapid breathing



Bleeding gums or nose



Fatigue, Feeling weak



Blood in vomit or stool



Pale and cold skin



Being very thirsty



## Paper to show the client



Severe abdominal pain



Persistent vomiting



Rapid breathing



Bleeding gums or nose



Fatigue, Feeling weak



Blood in vomit or stool



Pale and cold skin



Being very thirsty

## What you can discuss

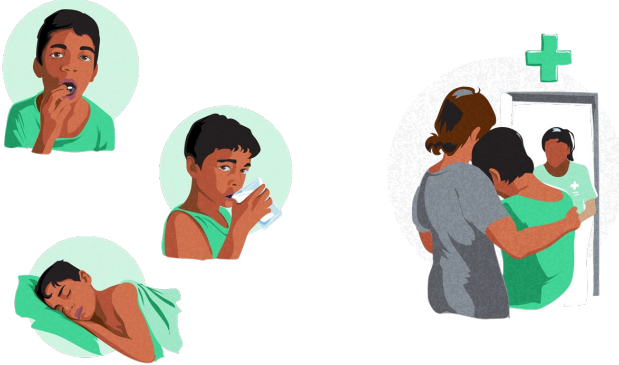
### Signs and symptoms of severe dengue

- Severe abdominal pain
- Persistent vomiting
- Rapid breathing
- Bleeding gums or nose
- Restlessness
- Blood in vomit or stool
- Being very thirsty
- Pale and cold skin
- Fatigue, Feeling weak

# What to do when you have dengue symptoms



### Paper to show the client



### Ask questions about signs and symptoms of dengue

- What can you or your family do if you start to identify dengue symptoms?
- Have you ever been tested for dengue?

### What you can discuss

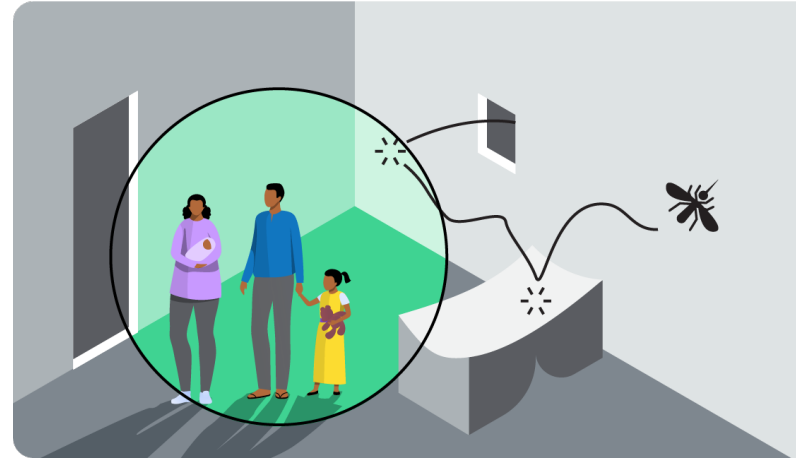
#### **If you or your family have dengue symptoms**

- The next step is to begin taking medicine. Most cases of dengue fever can be treated at home with pain medicine (Acetaminophen (paracetamol) is often used).
- Avoid drugs like ibuprofen and aspirin, as they can increase the risk of bleeding.
- There is no specific treatment for dengue. The focus is on treating pain symptoms.
- Protect yourself and others from mosquito bites the first week you are sick. If a mosquito bites you, it can get infected, bite other people, and make them sick.

#### **If you or any members of your family show severe dengue symptoms:**

- Seek medical attention immediately
- Any delay may result in more severe symptoms which can even lead to death.

# SC Johnson Guardian™



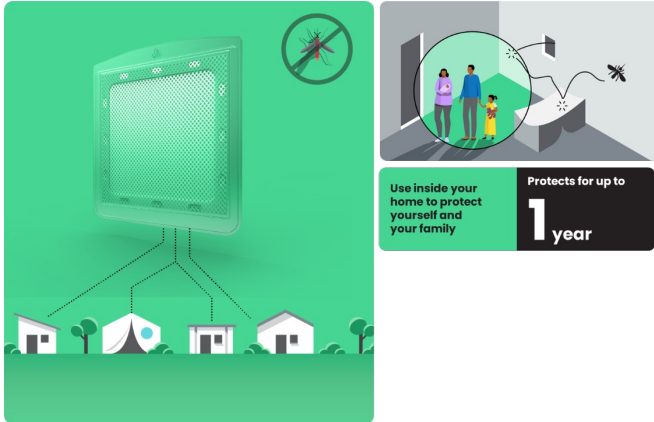
**Use inside your  
home to protect  
yourself and  
your family**

**Protects for up to**

**1  
year**



### Paper to show the client



### Note

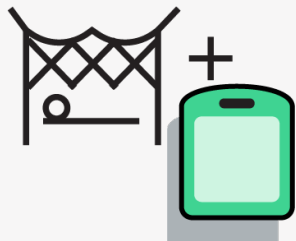
You may hand out the Guardian™ Product Information Sheet at this time or tell participants they will get a Product Information Sheet with this information during the home visit.

### Important information to share

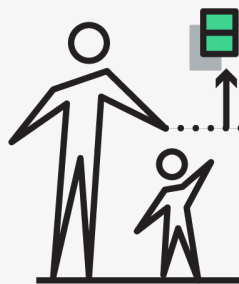
#### About Guardian

- This is a new tool designed to protect your family from mosquitoes inside your home.
- It is a spatial repellent that works by hanging it in your home.
- You do not need to burn it, plug it in, or use any batteries.
- It will protect you and your family for up to 1 year.
- You will not smell anything different with the product. The active ingredient that prevents mosquitoes from biting in this product does not have a smell to humans.
- You may still notice mosquitoes in your home, this does not mean the product is not working. The product works by stopping the mosquitoes from biting.

# SC Johnson Mosquito Guardian™ : Important things to know



Keep using bed net



Keep product away from children



Handle by edge only



Wash hands with soap and water after handling



Keep out of direct sun and rain



Do not wash Guardian

### Paper to show the client



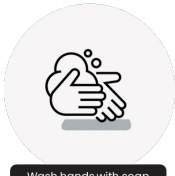
Keep using bed net



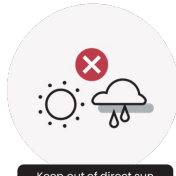
Keep product away from children



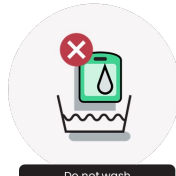
Handle by edge only



Wash hands with soap and water after handling



Keep out of direct sun and rain




Do not wash Guardian

### Important information to share

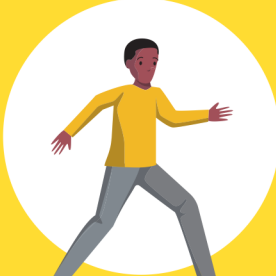
#### Important!

- Product has been approved for use in all homes including homes with children, infants and pregnant women
- Keep using your bed net every night. Bed nets still provide protection.
- Keep out of reach of children. Be sure to hang Guardian out of the reach of any small children in the house – ensure it is secure on the wall. If Guardian is too low on the wall, children may take the product off the wall and the product will no longer provide protection.
- Handle by edge only
- Wash hands with soap and water after handling
- Keep out of direct sun and rain. Placing product in the direct sunlight or rain will shorten the life of the product so you will not get a full year of protection.
- Do not wash product. Although we instruct to wash bednets, do NOT wash Guardian™ even if it becomes dirty. Guardian™ continues to work when dusty or dirty. Washing product will remove the active ingredient that makes it work and may be harmful to the environment.

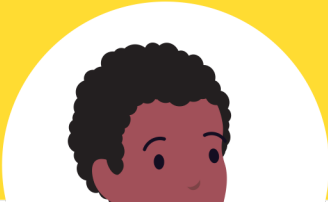
# Determine how many Guardian™ to use

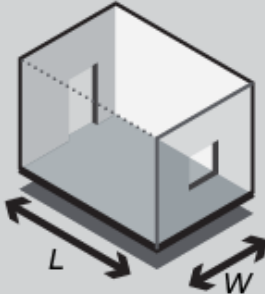


1m




1m





		Length (m)									
		1	2	3	4	5	6	7	8	9	10
Width (m)	1	1	1	1	1	1	2	2	2	2	2
	2	1	1	2	2	2	2	2	2	2	2
	3	1	2	2	2	2	2	2	2	4	4
	4	1	2	2	2	2	2	4	4	4	4
	5	1	2	2	2	4	4	4	4	4	6



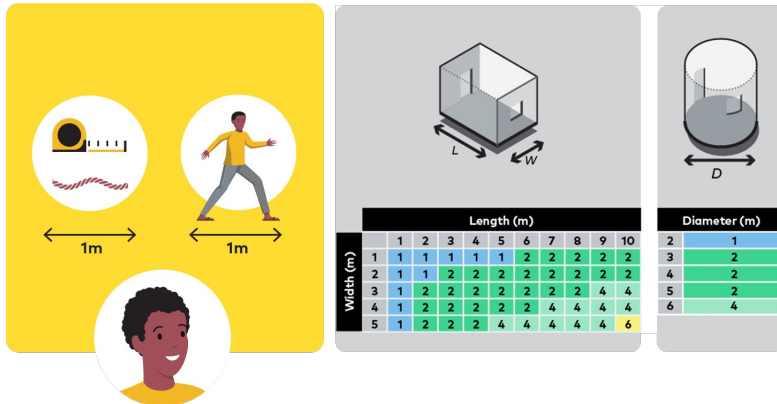
Diameter (m)	
2	1
3	2
4	2
5	2
6	4



# Determine how many Guardian™ to use

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## Paper to show the client



## Note

You may hand out the Calculation Worksheet at this time or tell participants they will fill out the Calculation Worksheet together during the home visit.

## Questions to discuss

- Do you know how you can measure your space for this product?
- How many of these products will you use?

## Important information to share

- The number of products you need is determined by the number of rooms and size of rooms you have.
- Use the worksheet we've provided to calculate the number of products you need.
- You can determine the size of your rooms by either using a tape measure (or a 1 m long piece of rope) or pacing off the dimensions of the room (a large step is approximately 1m).
- If you can't access the space or the structure at this time, you can estimate the room size by comparing to a room you have determined the size of by measuring or pacing off.
- After you have determined the size of your rooms, you will receive the appropriate number of products to use.
- Each room needs to be measured separately and noted on the worksheet. A room is created anytime a structure is divided into different spaces - whether by a permanent wall or curtain/fabric. It does not matter if the divider does not fully reach the ceiling/roof. Each room will need the appropriate number of Guardian™.

# Where to hang Guardian™ in each room



# Where to hang Guardian™ in each room

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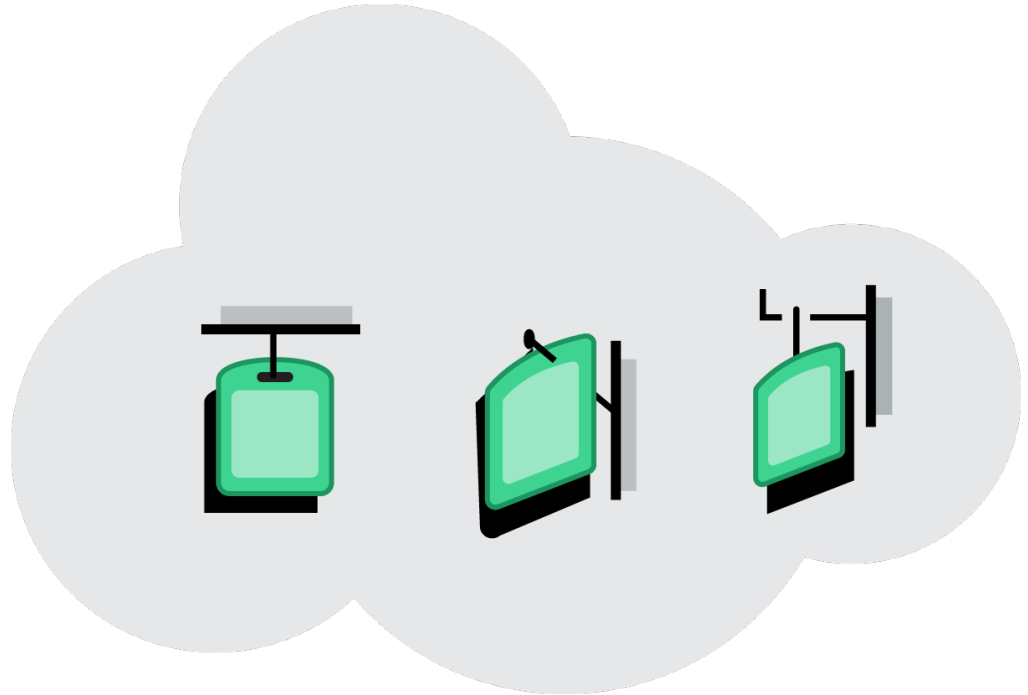
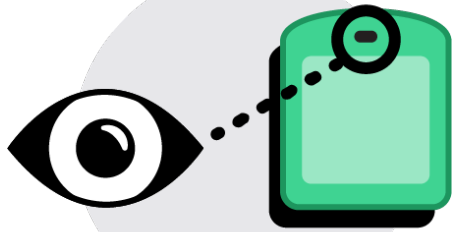
Paper to show the client



## Important information to share

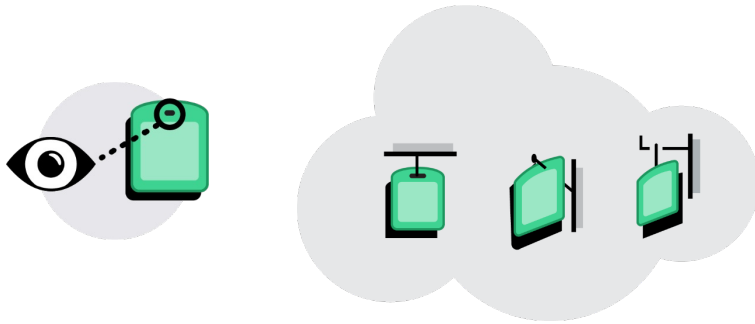
- Guardian™ needs to be placed in each room. A room is considered anytime a structure is divided into different spaces – whether by a permanent wall or curtain/fabric. It does not matter if the divider does not fully reach the ceiling/roof. Each room will need the appropriate number of Guardian™.
- Place Guardian™ evenly throughout room, leaving space around product.
- Do not hang product in doorways or windows. Placing product in doorways or windows may cause the active ingredient to go outside instead of protecting the house. It may also lead to the wind causing the product to fall down and not be effective.
- Do not hang or place anything in front of product – including clothes, pictures, furniture, etc. Guardian™ needs to be open to the house so that the active ingredient may spread throughout the home. Hanging or placing anything in front of the product may cause it to not be effective in preventing mosquito bites.
- Product should be hung out of children's reach.

# Ways to hang Guardian™





### Paper to show the client



### Important information to share

- You can hang Guardian™ using common household materials.
- Use what you have to hang Guardian™ from wall or ceiling. This could be nails, hooks, tape, or string.
- Look for the holes at top of Guardian™ product.

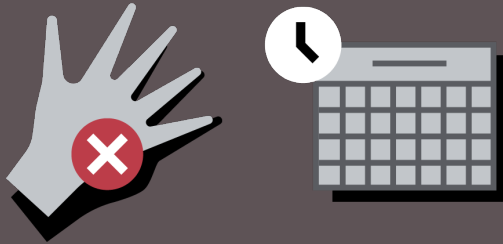
### Questions you can ask

- What items do you have at home for hanging this product?

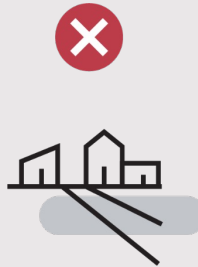
# To safely dispose of Guardian™

Do not move for

**1** year



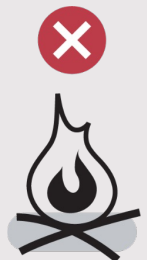
**Ask an official and follow their advice**



Do not leave on  
ground or road

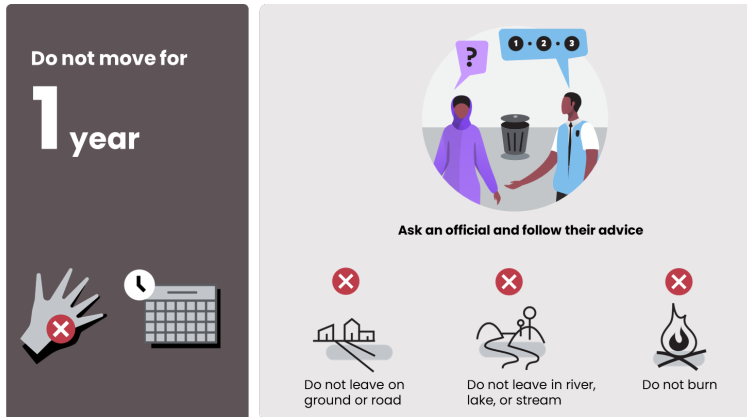


Do not leave in river,  
lake, or stream



Do not burn

### Paper to show the client



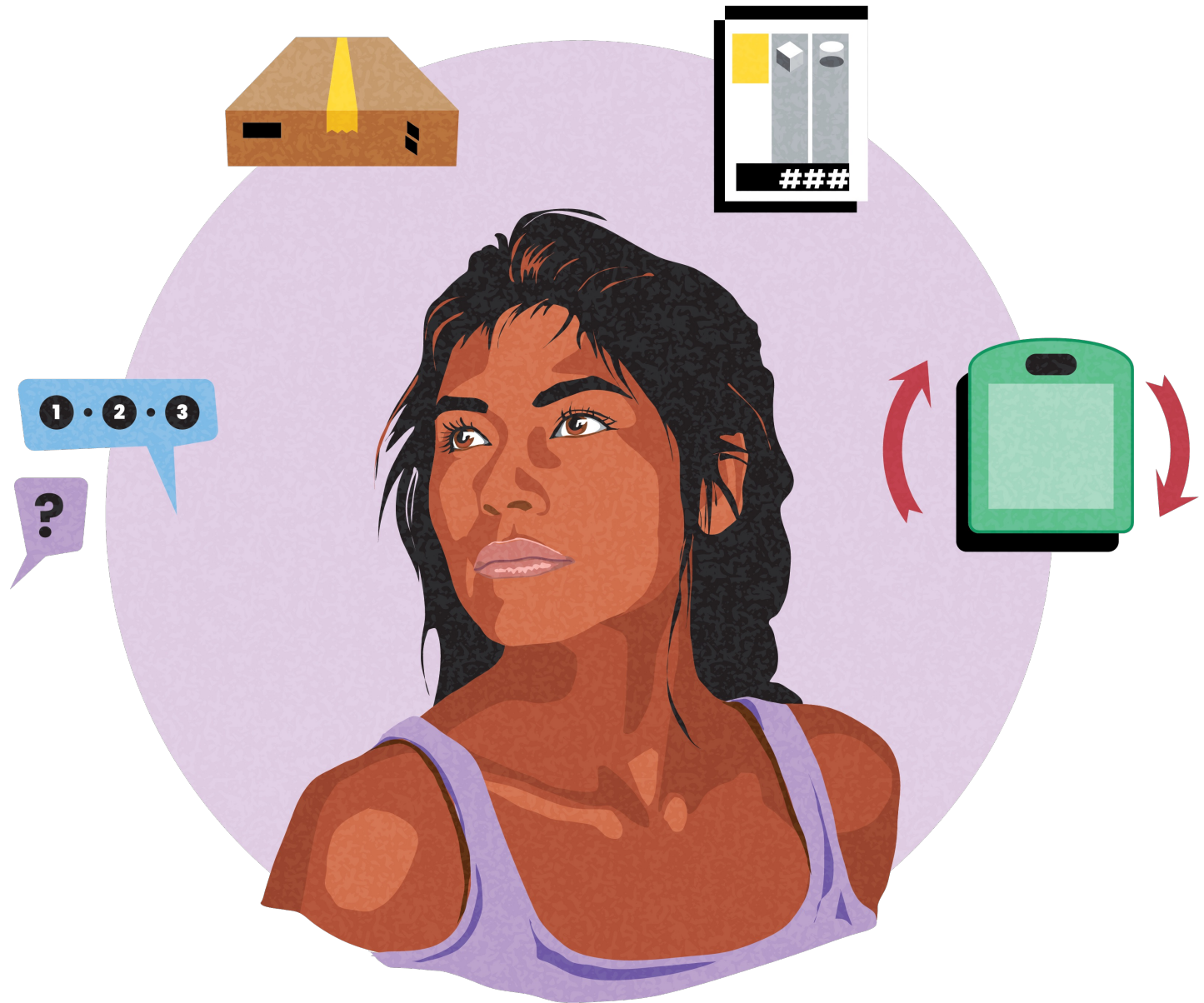
### Note

*Advise participants of your **local** guidance for disposal. Your program administrator should give you this information prior to distribution meetings.*

### Important information to discuss

- Dispose the Guardian™ product in your house after 1 year of use.
- Before disposing, ask an official and follow their advice.
- Do not leave product on ground or road.
- Do not leave product outside in a river, lake, or stream. Disposing in waterways may be harmful to aquatic life.
- Do not burn product.

# What you can do next





### Paper to show the client



### Important information to discuss

- Do you have any questions for me?
- You can come and ask me questions at any time.
- Here is what we will do next: