



Christian Pharmacists
Fellowship International
Serving Christ and the World Through Pharmacy

How Will You Serve? Pharmacists on Mission

*Be Transformed by the Renewing of Your
Mind. Romans 12:2*

May 30th, 2024

DR. LANCE PLYLER

CHIEF MEDICAL OFFICER

SAMARITAN'S PURSE



How Will You Serve? Pharmacists on Mission

Outline:

Go and serve: Encouragement and Innovation

- Acts 1:8 Be My Witnesses to the End of the Earth
- Ephesians 6:7-8 Serve wholeheartedly
- Local Missions (clinics for indigent care)
- International Missions (World Medical Mission and DART)
- Telemedicine/Virtual Health Care

Pharmaceutical Research

- Antivirals and monoclonal antibodies
- New antibiotics
- Vaccine Development

Pharmaceutical Supply chain and Logistics

Prayer: “Prayer is my best medicine”



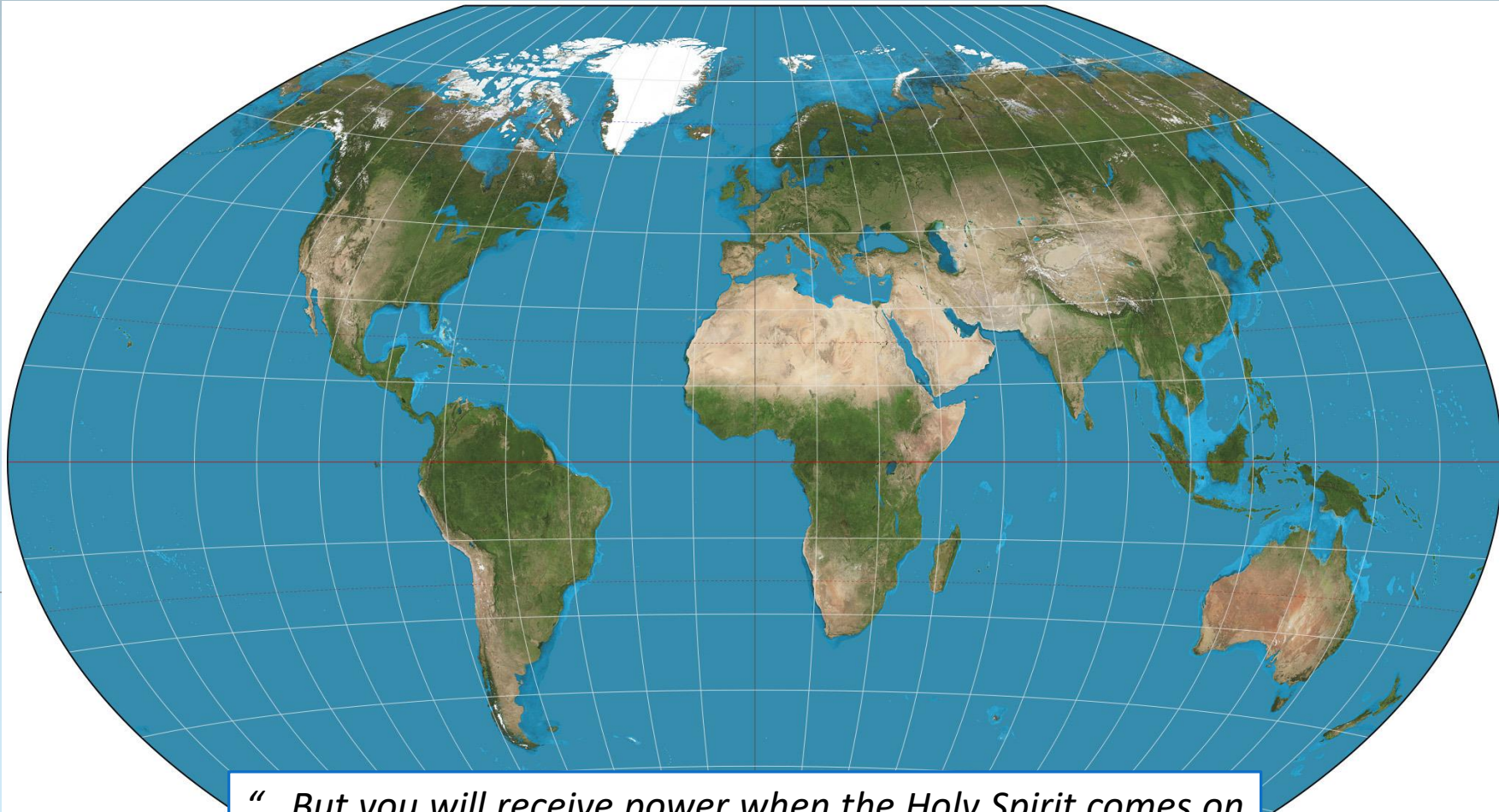
How Will You Serve? “Pharmaceutical Missions”

Pharmaceutical missions: ChatGPT Definition:

Pharmaceutical missions typically refer to initiatives or efforts by pharmaceutical companies or humanitarian organizations to provide healthcare services, medications, or medical supplies to underserved or impoverished communities, often in developing countries or areas affected by natural disasters or humanitarian crises. These missions aim to improve access to essential healthcare resources, promote health education, and support public health initiatives in regions where they are needed most.



How Will You Serve? Pharmacists on Mission



"...But you will receive power when the Holy Spirit comes on you; and you will be my witnesses in Jerusalem, and in all Judea and Samaria, and to the ends of the earth". Acts 1:8

How Will You Serve? Pharmacists on Mission



Serve wholeheartedly, as if you were serving the Lord, not people, because you know the Lord will reward each one for whatever good they do, whether they are slave or free. Ephesians 6: 7-8

How Will You Serve? Pharmacists on Mission

Medical Missions at Samaritan's Purse



Pharmacist Dr. Mike Liner is one of many pharmacists that serve on mission at Samaritan's Purse

Setting up the EFH pharmacy in Mosul, Iraq
March, 2017



How Will You Serve? Pharmacists on Mission

Local Missions ...



How Will You Serve? Pharmacists on Mission

International Missions: Disaster Response



Haiti Earthquake; January, 2010.



How Will You Serve? Pharmacists on Mission

International Missions: Infectious Disease and Epidemics



Cholera Response: November, 2011

Treatment is very protocol driven

- Careful IVF rehydration
- Electrolyte management/ORS
- Zinc administration
- Antibiotics (Doxycycline or other)

How Will You Serve? Pharmacists on Mission

International Missions: Refugee Camps



Pharmaceutical Responsibilities

- Measles Vaccination and additional vaccine campaigns
- Vitamin A administration
- Therapeutics
- Malnutrition management



South Sudan Refugee Camps, 2012



How Will You Serve? Pharmacists on Mission

Medical Missions: Malnutrition



Severe Acute Malnutrition

- Severe malnutrition management: Kwashiorkor vs. Marasmus
- Micronutrient deficiencies
- Products: F-75 vs. F-100, RUTF, CSB, Plumpy Nut, etc.



Yida Refugee Camp, 2012



How Will You Serve? Pharmacists on Mission

Medical Missions: Malnutrition



Disease Process?



How Will You Serve? Pharmacists on Mission

Medical Missions: Malnutrition



Disease Process? Rickets



How Will You Serve? Pharmacists on Mission

Telemedicine/Virtual Health Care



How Will You Serve? Pharmacists on Mission

Telemedicine/Virtual Health Care



Kapsowar Hospital, June, 2023.



How Will You Serve? Pharmacists on Mission

Telemedicine/Virtual Health Care



First patient at Samaritan's Purse treated via telemedicine; June, 2023.



How Will You Serve? Pharmacists on Mission

Medical Missions: Pharmaceutical Research

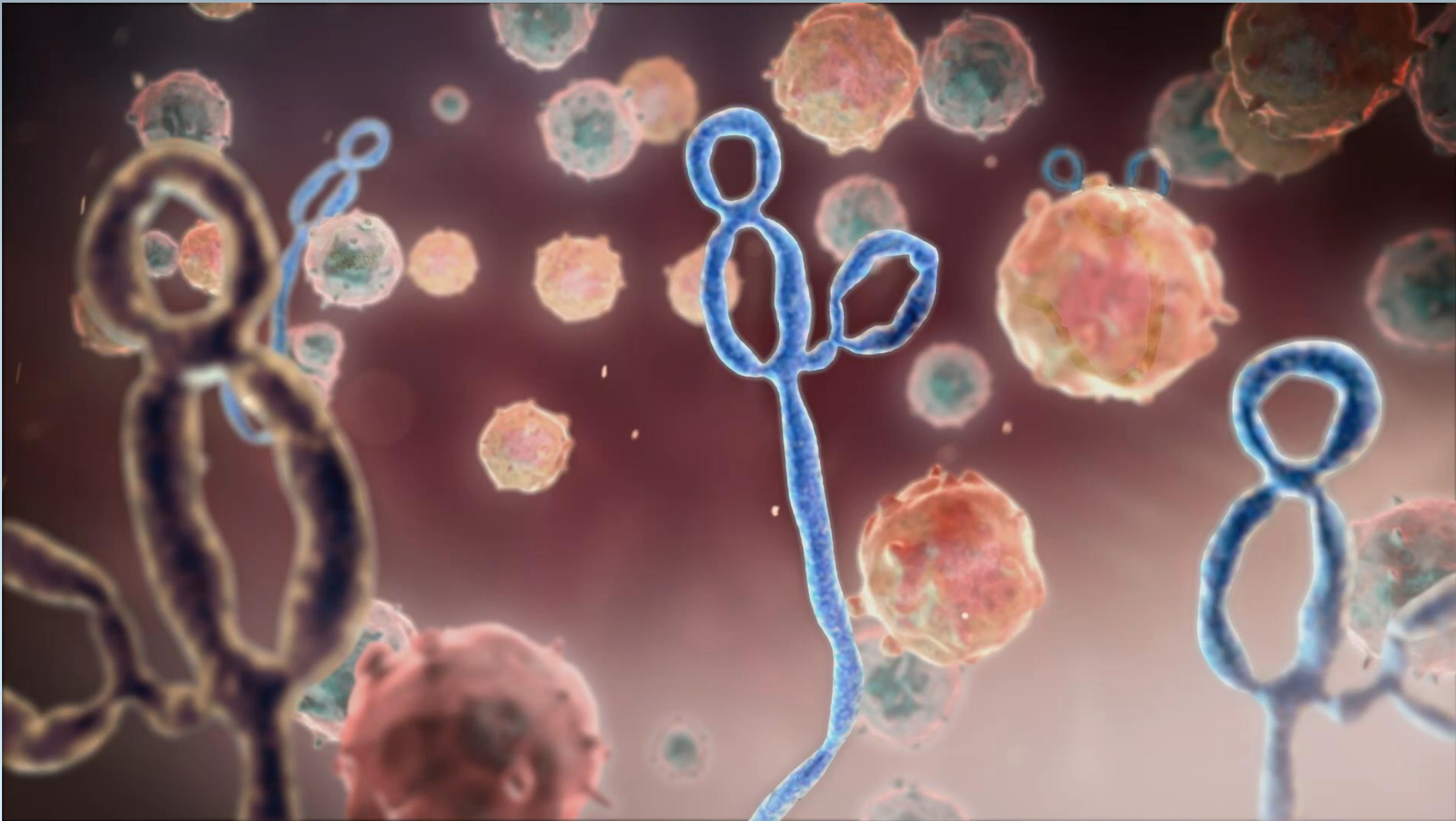


Ebola Epidemic in West Africa, 2014.



First humans to be administered the experimental antiviral ZMapp.





How Will You Serve? Pharmacists on Mission

Medical Missions: Pharmaceutical Research



Young boy at Soddo Hospital in Ethiopia
(survivor of a Nile River Crocodile attack)



How Will You Serve? Pharmacists on Mission

Medical Missions: Pharmaceutical Research

Macrocyclic Peptides

-No new antibiotics have been introduced for gram-negative bacteria in more than 50 years

-Dire need to develop new antibiotics to address the global threat of antibiotic resistance.

-A new antibiotic has the potential to fight drug-resistant infections caused by carbapenem-resistant *Acinetobacter baumannii* (CRAB).

-CRAB can cause sepsis and pneumonia killing up to 50% of infected patients.

-Macrocyclic Peptides (MCPs): a novel structural class of antibiotics with broad spectrum activity, low propensity for development of resistance, and a novel mechanism of action. It also has very potent activity against CRAB strains.



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Research



New Cardiothoracic Center:
Tenwek Hospital, Kenya



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Research



Will Revolutionize Management of Rheumatic Heart Disease in East Africa and Beyond



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Research



Aspirin in lieu of Anticoagulation for Mechanical Heart Valves in Rheumatic Heart Disease



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Research (Vaccines)

Dengue Vaccine Description:

Dengue vaccine is a vaccine used to prevent dengue fever in humans. Development of dengue vaccines began in the 1920s, but was hindered by the need to create immunity against all four dengue serotypes. As of 2023, there are two commercially available vaccines, sold under the brand names Dengvaxia and Qdenga.



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Research (Vaccines)

Dengue Vaccine Description:

-**Qdenga**®: Qdenga (two-part recombinant chimeric vaccine) is now being used as a travel vaccine (primarily in Sweden). They recommend for travelers with previous known self-reported (hospitalized or polyclinic testing) dengue fever, vaccination is recommended before travel to an endemic country (and are at risk for recurrent or severe Dengue).

-**Dengvaxia**®: Dengvaxia can lead to antibody dependent enhancement in dengue naïve patients that subsequently acquire the disease after vaccination. This phenomenon paradoxically can cause more severe dengue in vaccinated patients that subsequently acquire the disease.



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Research (Vaccines)

Additional Vaccines in Development:

-**Malaria:** Mosquirix and Amvira

-**HIV vaccine development:** There is still no effective vaccine against HIV, and is a global health priority (GAVI,

-**Tuberculosis:** One of the top 10 causes of death worldwide and efforts to develop a vaccine are ongoing.

-**Ebola:** Ervebo (Ebola Zaire), but dire need for vaccines specific to the other subtypes of Ebola.



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Supply Chain & Logistics

International medical/pharmaceutical supply chain and logistics is quite challenging given multiple factors:

- remote settings and transportation logistics (“the last mile”)
- stringent and variable regulatory requirements (especially controlled substances)
- geopolitical tensions
- specialized storage conditions (“cold chain”)



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Supply Chain & Logistics



-When Hamas attacked Israel in early October 2023, Samaritan's Purse immediately deployed a Disaster Assistance Response Team. Thousands of innocent civilians have been displaced and in need of critical relief,

Israel Response



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Supply Chain & Logistics



Franklin Graham visited Israel in mid-November, and was deeply moved by what he saw. Speaking with a widow whose husband was killed while helping patients at a clinic, Franklin prayed for God's hand on her life and the lives of her two young children. Minutes later, he pledged ongoing support and help to the mayor of the region.

Israel Response



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Supply Chain & Logistics



Franklin Graham visited Israel in mid-November, and was deeply moved by what he saw. Speaking with a widow whose husband was killed while helping patients at a clinic, Franklin prayed for God's hand on her life and the lives of her two young children. Minutes later, he pledged ongoing support and help to the mayor of the region.



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Supply Chain & Logistics



The newest 757 cargo jet airlifted 1,000 advanced trauma life support kits (combat application tourniquet, chest tube kit, suture kit, and intubation kit) to help save lives in vulnerable Israeli communities.



757 Samaritan's Purse Cargo Plane



How Will You Serve? Pharmacists on Mission

International Missions: Pharmaceutical Supply Chain & Logistics



Samaritan's Purse Logistics Warehouse
Wilkesboro, North Carolina
(Developing warehouse pharmaceutical inventory capability)



“Prayer is our Best Medicine”

- ...Pray for each other so that you may be healed. The prayer of a righteous person is powerful and effective. **James 5:16**
- Therefore I tell you, whatever you ask in prayer, believe that you have received it, and it will be yours. **Mark 11:24**
- Ask and it will be given to you, seek and you will find; knock and the door will be opened to you. For everyone who asks receives; the one who seeks finds; and to the one who knocks, the door will be opened. **Matthew 7: 7-8**



How Will You Serve? Pharmacists on Mission

Samaritan's Purse Mission Statement:

Samaritan's Purse goes to the aid of the world's poor, sick, and suffering, helping meet needs of people who are victims of war, poverty, natural disasters, disease, and famine with the purpose of sharing God's love through His Son, Jesus Christ.



How Will You Serve? Pharmacists on Mission



Prescription for Renewal Medical Missions Conference

August 15–18, 2024

Renaissance Orlando at SeaWorld
Orlando, Florida



How Will You Serve? Pharmacists on Mission



Thank You!

