

Global Grant Application

GRANT NUMBER
GG2231243

STATUS
Draft

Basic Information

Grant title

Emergency Point of Care Ultrasound for Papua New Guinea

Type of Project

Humanitarian Project

Address community needs and produce sustainable, measurable outcomes

Primary Contacts

Name	Club	District	Sponsor	Role
James Ham	Honolulu Sunset	5000	Club	International
Adam Hughes	Port Moresby	9620	Club	Host

Committee Members

Host committee

Name	Club	District	Role
Egbert Weggemans	Port Moresby	9620	Secondary Contact
Lavinia Ole-Gangloff	Port Moresby	9620	Secondary Contact

International committee

Name	Club	District	Role
Cecily Wang	Honolulu Sunset	5000	Secondary Contact International
Paul Moroz	Honolulu Sunset	5000	Secondary Contact International

Do any of these committee members have potential conflicts of interest?

No

Project Overview

Tell us a little about your project. What are the main objectives of the project, and who will benefit from it?

According to the World Health Organization, Papua New Guinea has one of the lowest rates of physicians per capital in the world. Point of Care Ultrasound (POCUS) is a diagnostic imaging modality used at the patient's bedside to help physicians and other health professions obtain immediate results and diagnoses in order to reduce morbidity and mortality, especially in trauma patients and pregnant mothers. It provides immediate answers to clinical questions in real time resulting in more timely, accurate treatment. Compared to other diagnostic imaging modalities such as basic X-rays, computed tomography (CT) scans, and traditional ultrasound machines, POCUS is far more inexpensive, durable, non-invasive, safe, and avoids exposure to radiation altogether. It is a proven, high-impact, low-cost means of imaging in both emergent and complex conditions in resource-limited environments.

This project will provide handheld POCUS devices to emergency physicians at four regional hospitals in Papua New Guinea: Port Moresby General Hospital, Gerehu General Hospital, Mount Hagen General Hospital, and Sir Joseph Nombri Memorial Kundiawa General Hospital. The exact beneficiaries of this project are the actual people who live in the distinct resource-limited communities surrounding the four different hospitals.

Areas of Focus

Which area of focus will this project support?

Disease prevention and treatment
Maternal and child health

Measuring Success

Disease prevention and treatment

Which goals will your activity support?

Improving the capacity of local health care professionals;

How will you measure your project's impact? You need to include at least one standardized measure from the drop-down menu as part of your application.

Measure	Collection Method	Frequency	Beneficiaries
Number of medical and health professionals trained	Direct observation	Every three months	20-49

Do you know who will collect information for monitoring and evaluation?

Yes

Name of Individual or Organization

Papua New Guinea Society for Emergency Medicine

Briefly explain why this person or organization is qualified for this task.

Papua New Guinea Society for Emergency Medicine (PNGSEM) is the only local organization solely dedicated

to the advancement of emergency medicine in PNG. Its members organize and host an annual symposium as well as workshops and training for all emergency physicians in PNG. Because this project focuses on the use of POCUS by emergency physicians, PNGSEM is the most qualified to measure success and provide additional training for POCUS.

Maternal and child health

Which goals will your activity support?

Reducing the neonatal and newborn mortality rate; Reducing the maternal mortality and morbidity rate;

How will you measure your project's impact? You need to include at least one standardized measure from the drop-down menu as part of your application.

Measure	Collection Method	Frequency	Beneficiaries
Number of maternal and child health professionals trained	Direct observation	Every three months	20-49

Do you know who will collect information for monitoring and evaluation?

Yes

Name of Individual or Organization

Papua New Guinea Society for Emergency Medicine

Briefly explain why this person or organization is qualified for this task.

Papua New Guinea Society for Emergency Medicine (PNGSEM) is the only local organization solely dedicated to the advancement of emergency medicine in PNG. Its members organize and host an annual symposium as well as workshops and training for all emergency physicians in PNG. Because this project focuses on the use of POCUS by emergency physicians who treat pregnant women, PNGSEM is the most qualified to measure success and provide additional training for POCUS.

Location and Dates

Humanitarian Project

Where will your project take place?

City or town

Port Moresby

Country

Papua New Guinea

Province or state

NCD

When will your project take place?

2022-06-01 to 2023-09-30

Participants

Partners (Optional)

List any other partners that will participate in this project.

Rotarian Participants

Describe the role that host Rotarians will have in this project.

Host Rotarians will be responsible for the delivery and accountability of the POCUS devices by maintaining close contact with the emergency physician lead counterparts at each of the four hospitals. They will also host and assist visiting Rotarians, physicians, and other personnel who will provide training and support. Host Rotarians will also ensure reports are filed in a timely fashion and as ensure other required duties and responsibilities are fulfilled.

Describe the role that international Rotarians will have in this project.

International Rotarians will be responsible for the purchase and delivery of the POCUS devices from the United States to Papua New Guinea. They will also work with Host Rotarians to enable visiting Rotarians, physicians, and other personnel to travel to Papua New Guinea to provide training and support. International Rotarians will also ensure reports are filed in a timely fashion and as ensure other required duties and responsibilities are fulfilled.

Budget

What local currency are you using in your project's budget?

The currency you select should be what you use for a majority of the project's expenses.

Local Currency	U.S. dollar (USD) exchange rate	Currency Set On
USD	1	28/08/2021

What is the budget for this grant?

List each item in your project's budget. Remember that the project's total budget must equal its total funding, which will be calculated in step 9. Every global grant includes a match of at least \$15,000 from The Rotary Foundation's World Fund. Project budgets, including the World Fund match, must be at least \$30,000.

#	Category	Description	Supplier	Cost in USD	Cost in USD
1	Equipment	Butterfly iQ Ultrasound Probe x 10	Butterfly	26000	26000
2	Equipment	iPad tablet device x 10	Apple	7000	7000
3	Supplies	Ultrasound gel x 30	Aquasonic	330	330
4	Equipment	Case for Butterfly iQ Ultrasound Probe x 10	Butterfly	1000	1000
5	Equipment	Protective Case for iPad x 10	Apple	750	750
			Total budget:	35080	35080

Funding

Tell us about the funding you've secured for your project. We'll use the information you enter here to calculate your maximum possible funding match from the World Fund.

#	Source	Details	Amount (USD)	Support*	Total
1	Cash from Club	Honolulu Sunset	3,000.00	150.00	3,150.00
2	District Designated Fund (DDF)	5000	6,009.00	0.00	6,009.00
3	Cash from Club	Port Moresby	1,000.00	50.00	1,050.00
4	Cash from Club	Centralia	1,000.00	50.00	1,050.00
5	Cash from Club	Hanalei Bay (Princeville-At-Hanalei), Kauai	2,162.00	108.10	2,270.10
6	Cash from Club	Kona Mauka	847.00	42.35	889.35

*Whenever cash is contributed to the Foundation to help fund a global grant project, an additional 5 percent is applied to help cover the cost of processing these funds. Clubs and districts can receive Paul Harris Fellow recognition points for the additional expense.

How much World Fund money would you like to use on this project?

You may request up to 4,807.00 USD from the World Fund.

4807

Funding Summary

	DDF contributions:	6,009.00
	Cash contributions:	8,009.00
	Financing subtotal (matched contributions + World Fund):	18,825.00
		<hr/>
	Total funding:	18,825.00
	Total budget:	35,080.00

Sustainability

Humanitarian Projects

Project planning

Describe the community needs that your project will address.

Morbidity and mortality from disease, injury and prenatal complications is on the rise in Papua New Guinea, most recently due to the continued shortfall of funding for local government hospitals. Traditional modalities of diagnostic imaging are very costly in terms of money and time, and can also present long term risks and complications from radiation. Many times imaging is simply not available because of prohibitive costs, expired film, or broken unserviced machines, and many life threatening conditions go undiagnosed leading to more complications and even death. POCUS will address these problems by offering an immediate, cost-effective solution that can save lives.

How did your project team identify these needs?

Direct contact with local front-line emergency physicians who voiced their concerns and needs, and specifically requested this equipment and device.

How were members of the benefiting community involved in finding solutions?

Local emergency physicians are well versed in ultrasound technology but have limited access due to limited resources. The accuracy, reliability, practicality, and portability of POCUS makes it a lifesaving solution for the growing health care needs of the people of Papua New Guinea, especially in the areas of infection, trauma and prenatal care.

How were community members involved in planning the project?

Direct contact with local front-line emergency physicians who voiced their concerns and needs, and specifically requested this equipment and device.

Project implementation

Summarize each step of your project's implementation.

Do not include sensitive personal data, such as government ID numbers, religion, race, health information, etc. If you include personal data, you are responsible for informing those whose personal data is included that you are providing it to Rotary and that it will be processed in accordance with Rotary's [Privacy Policy](#).

#	Activity	Duration
1	Direct contact with local emergency physicians	several hours
2	Direct contact with host Rotary Club and international Rotary Club	several hours
3	Direct contact with local emergency physicians and both host and international Rotary Clubs	several hours

Will you work in coordination with any related initiatives in the community?

No

Please explain. Are local initiatives not addressing these needs? Or, if they are, why did you decide not to work with them?

None presently.

Please describe the training, community outreach, or educational programs this project will include.

Training will be provided in conjunction with the PNG Society for Emergency Medicine at each of the four hospital locations as well as the annual National Medical Symposium held every September.

How were these needs identified?

Direct contact with frontline local emergency physicians who requested this specific equipment.

What incentives (for example, monetary compensation, awards, certification, or publicity), will you use, if any, to encourage community members to participate in the project?

Through the use of the devices by the trained local emergency physicians and other health professionals, the local community members (aka patients) will be provided with improved medical care.

List any community members or community groups that will oversee the continuation of the project after grant-funded activities conclude.

Leaders of the local NGO Papua New Guinea Society for Emergency Medicine will oversee the continuation of the project including the annual training.

Budget

Will you purchase budget items from local vendors?

No

Explain the process you used to select vendors.

The portable ultrasound devices and required tablets are not readily available for purchase, and it will be cost effective to purchase them directly from the manufacturers in the United States. The international club will assume the responsibility to purchase and hand-deliver the devices to the host club who will then assume the responsibility to directly deliver them to the local emergency physician leader from their respective emergency departments in their respective hospitals. The host club will also communicate closely with the local

emergency physician leaders to account for the devices and provide assistance for repairs or maintenance.

Did you use competitive bidding to select vendors?

Yes

Please provide an operations and maintenance plan for the equipment or materials you anticipate purchasing for this project. This plan should include who will operate and maintain the equipment and how they will be trained.

Once delivered to the hospitals, the local emergency physician leaders will be responsible for the operating and maintaining the equipment. They will be trained by trainers from the international club as well as the Papua New Guinea Society for Emergency Medicine. The host club will also communicate closely with the local emergency physician leaders to account for the devices and provide assistance for repairs or maintenance. Any devices that need to be replaced or maintained should be under warranty and the host club will work with the international club to assist in the process, including delivery of the devices back to the manufacturer.

Describe how community members will maintain the equipment after grant-funded activities conclude. Will replacement parts be available?

After grant-funded activities conclude, the local emergency physician leaders will be responsible for maintaining and repairing the equipment. Replacement parts are available and the host club will continue to work with the international club to assist in the process, including delivery of the devices back to the manufacturer.

If the grant will be used to purchase any equipment, will the equipment be culturally appropriate and conform to the community's technology standards?

Yes

Please explain.

Advanced state-of-the-art technology including ultrasound machines, smartphones and electronic tablets have been in Papua New Guinea over the past decade. By adding an ultrasound probe to a smart phone or tablet to create a POCUS device, this project is not necessarily introducing new technology, but simply leveraging existing technology to make it portable, more effective, and more readily available. Thus, the equipment will not violate cultural norms and conform to the existing technology standards of the community.

After the project is completed, who will own the items purchased by grant funds? No items may be owned by a Rotary district, club, or member.

The emergency physicians working at the emergency departments of the four hospitals will own the items purchased by the grant. The host club and the PNG Society for Emergency Medicine will continue to communicate with each physician for accountability and to assist with maintenance and repairs.

Funding

Does your project involve microcredit activities?

Have you found a local funding source to sustain project outcomes for the long term?

Yes

Please describe this funding source.

PNG Society of Emergency Medicine will provide funding to continue training at their annual meetings and workshops to sustain project outcomes for the long term. The host club and the PNG Society for Emergency Medicine will continue to communicate with each physician for accountability and to assist with maintenance and repairs.

Will any part of the project generate income for ongoing project funding? If yes, please explain.

No.

Authorizations

Authorizations & Legal Agreements

Legal agreement

Global Grant Agreement

I confirm and agree to the following:

1. All information contained in this application is, to the best of our knowledge, true and accurate.
2. We have read the Terms and Conditions for Rotary Foundation District Grants and Global Grants ("Terms and Conditions") and will adhere to all policies therein.
3. The grant sponsors ("Sponsors") shall defend, indemnify, and hold harmless Rotary International (RI) and The Rotary Foundation (TRF), including their directors, trustees, officers, committees, employees, agents, associate foundations and representatives (collectively "RI/TRF"), from and against all claims, including but not limited to claims of subrogation, demands, actions, damages, losses, costs, liabilities, expenses (including reasonable attorney's fees and other legal expenses), awards, judgments, and fines asserted against or recovered from RI/TRF arising out of any act, conduct, omission, negligence, misconduct, or unlawful act (or act contrary to any applicable governmental order or regulation) resulting directly or indirectly from a Sponsor's and/or participant's involvement in grant-funded activities, including all travel related to the grant.
4. The failure of the parties to comply with the terms of this Agreement due to an act of God, strike, war, fire, riot, civil unrest, hurricane, earthquake, or other natural disasters, acts of public enemies, curtailment of transportation facilities, political upheavals, acts of terrorism, or any similar cause beyond the control of the parties shall not be deemed a breach of this Agreement. In such an event, the Agreement shall be deemed terminated and the Sponsors shall refund all unexpended global grant funds within 30 days of termination.
5. TRF's entire responsibility is expressly limited to payment of the total financing amount. TRF does not assume any further responsibility in connection with this grant.
6. TRF reserves the right to cancel the grant and/or this Agreement without notice upon the failure of either or both of the Sponsors to abide by the terms set forth in this Agreement and the Terms and Conditions. Upon cancellation, TRF shall be entitled to a refund of any global grant funds, including any interest earned, that have not been expended.
7. The laws of the State of Illinois, USA, without reference to its conflicts of laws principles, shall govern all matters arising out of or relating to this Agreement, including, without limitation, its interpretation, construction, performance, and enforcement.
8. Any legal action brought by either party against the other party arising out of or relating to this Agreement must be brought in either, the Circuit Court of Cook County, State of Illinois, USA or the Federal District Court for the Northern District of Illinois, USA. Each party consents to the exclusive jurisdiction of these courts, and their respective appellate courts for the purpose of such actions. Nothing herein prohibits a party that obtains a judgment in either of the designated courts from enforcing the judgment in any other court. Notwithstanding the foregoing, TRF may also bring legal action against Sponsors and/or individuals traveling on grant funds in any court with jurisdiction over them.

9. This Agreement binds and benefits the parties and their respective administrators, legal representatives, and permitted successors and assigns.
10. If any provision of this Agreement is determined to be illegal, invalid or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect.
11. Sponsors may not assign any of its rights under this Agreement except with the prior written consent of TRF. Sponsors may not delegate any performance under this Agreement without the prior written consent of TRF. Any purported assignment of a Sponsor's rights or delegation of performance without TRF's prior written consent is void.
12. TRF may assign some or all of its rights under this Agreement to an associate foundation of TRF. TRF may delegate any performance under this Agreement to an associate foundation. Any other purported assignment of TRF's rights or delegation of performance without the Sponsors' prior written consent is void.
13. Sponsors will comply with all economic and trade sanctions, including those implemented by the Office of Foreign Assets Control (OFAC) of the United States Department of Treasury, and will ensure that they do not support or promote violence, terrorist activity or related training, or money laundering.
14. This Agreement constitutes the final agreement between the parties. No amendment or waiver of any provision of this Agreement shall be effective unless it is in the form of a writing signed by the parties.
15. Rotary International (RI) and TRF may use information contained in this application and subsequent reports to promote the activities by various means such as The Rotarian, Rotary Leader, rotary.org, etc. Unless indicated otherwise in writing, by submission of the photos, the parties hereby grant to RI and TRF the worldwide right to publish and use the photos, including but not limited to, in RI and TRF publications, advertisements, and Web sites and on social media channels and to license use to others, including, but not limited to, media outlets and its partners and through RI's online image database, for the purposes of promoting Rotary. By submitting the photos, the parties represent and warrant that all persons appearing in the photos have given their unrestricted written consent to use their likenesses and to license use to third parties.
16. The Sponsors agree to share information on best practices when asked, and TRF may provide their contact information to other Rotarians who may wish advice on implementing similar activities.
17. The Sponsors will ensure that all individuals traveling on grant funds have been informed of the travel policies stated in the Terms and Conditions and have been made aware that they are responsible for obtaining travel insurance.

Primary contact authorizations

Application Authorization

By submitting this global grant application, we agree to the following:

1. All information contained in this application is, to the best of our knowledge, true and accurate, and we intend to implement the activities as presented in this application.
2. The club/district agrees to undertake these activities as a club/district.
3. We will ensure all cash contributions (as detailed in the grant financing) will be forwarded to The Rotary Foundation (TRF) or sent directly to the global grant bank account after Trustee approval of the grant.
4. Rotary International (RI) and TRF may use information contained in this application to promote the activities by various means such as The Rotarian, the RI international convention, RVM: The Rotarian Video Magazine, etc.
5. We agree to share information on best practices when asked, and TRF may provide our contact

information to other Rotarians who may wish advice on implementing similar activities.

6. To the best of our knowledge and belief, except as disclosed herewith, neither we nor any person with whom we have or had a personal or business relationship are engaged, or intend to engage, in benefiting from TRF grant funds or have any interest that may represent a potential competing or conflicting interest. A conflict of interest is defined as a situation in which a Rotarian, in relationship to an outside organization, is in a position to influence the spending of TRF grant funds, or influence decisions in ways that could lead directly or indirectly to financial gain for the Rotarian, a business colleague, or his or her family, or give improper advantage to others to the detriment of TRF.

All Authorizations & Legal Agreements Summary

Primary contact authorizations

Name	Club	District	Status
James Ham	Honolulu Sunset	5000	
Adam Hughes	Port Moresby	9620	

District Rotary Foundation chair authorization

Name	Club	District	Status
Adelbert Green	Downtown Honolulu	5000	
Elwyn Hodges	Cleveland	9620	

DDF authorization

Name	Club	District	Status
Adelbert Green	Downtown Honolulu	5000	
Sandra Matsui	Kaneohe	5000	

Legal agreement

Name	Club	District	Status
Arjun Aryal	Honolulu Sunset	5000	