

Basic Information

Grant title

Raising awareness and prevention of respiratory diseases in Croatia

Type of Project

Primary Contacts

Name	Club	District	Sponsor	Role
Leo Radeljak	Zagreb-Donji Grad	1913	Club	Host
Janez Vrbošek	Ljubljana 25	1912	Club	International

Committee Members

Host committee

Name	Club	District	Role
Ema Mendušić Škugor	Zagreb-Donji Grad	1913	Secondary Contact
Ana Zovko	Zagreb-Donji Grad	1913	Secondary Contact
Ivan Škegro	Zagreb-Donji Grad	1913	Secondary Contact

International committee

Name	Club	District	Role
Tilen Terlep	Ljubljana 25	1912	Secondary Contact International
Ugur Yildirim	Ljubljana 25	1912	Secondary Contact International
Iori Elio	Ljubljana 25	1912	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?

The project revolves around the needs of the Children's Hospital in Zagreb, Pediatric clinic, Department of Pulmonology, allergology, immunology, and rheumatology (hereinafter: The Hospital), regarding the treatment and prevention of Acute Respiratory Infections (ARI).

The Hospital is one of the crucial institutions in which children with acute and chronic respiratory diseases are treated. Handling of patients is performed through outpatient and daily hospital treatment at the Respiratory Center or in the form of stationary treatment at the Pulmonology Department. The Hospital is currently the only hospital in Croatia specialized for children's diseases and it serves the needs of the whole country, but also the needs of other adjacent countries. Croatia is a transition country that entered the EU only 5 years ago, and after the war in the 1990s it has been struggling with the implementation of most infrastructural needs including that of healthcare. The Croatian healthcare system is plagued by many of the same problems as the ones in similar countries, and the main concern is the lack of adequate financial resources needed to ensure an acceptable standard of service to patients. Moreover, due to the lack of resources, information that could prevent unnecessary visits to the hospital is not readily available, causing an additional burden to the system and degrading the services for everyone.

Childhood is the time of increased sensitivity to any kind of illness, especially virus infections which causes acute illness and can be associated with the development of severe breathing and asthma later in life. Acute respiratory infections (ARIs) are the most common reason for visiting the children's hospital. They are, along with sore throat diseases and gastrointestinal infections, the most significant and frequent health problem in children. During the first 5 years of life, the average child experiences 6 to 9 acute respiratory infections, with increased incidence of severe clinical consequences. This project's main goal is to create an educational program that will teach parents how to prevent the major causes for ARIs and other respiratory complications in children. By ensuring a higher level of awareness for respiratory complications and methods of prevention and early treatment, we expect to decrease the currently very heavy pressure on the emergency room of the Children's hospital in Zagreb, which often reaches unbearable crowds during critical periods of the year. Our preliminary research has shown that a large number of visits to the ER, especially return visits by the same patients, could be prevented by performing simple procedures at home, that would alleviate the symptoms and help the child recover without the need to visit the hospital, wait long periods of time and risk possible new infections and other complications.

Currently, the Pulmonology department counts a total of 14 beds. These are increased to 23-24 during critical periods of the year through borrowing from other departments of the Hospital. These are all the beds available for catering to the needs of all patients from 0-18 years (and in some cases older patients in cases of chronic diseases). Neonatal patients are sent directly to the intensive care ward, which causes an additional burden on that unit.

During the year 2017, the Hospital's ER counted a total of 34.873 patients, of which 25.315 underwent surgical procedures and 9.558 were pediatric cases. The Pulmonology department counted 1.286 patients. In the period between October 2017 and April 2018 (critical season) there were 868 hospitalizations (patients who were held for more than 1 day), of which 616 were cases of the most common acute/chronic respiratory complications. Out of these cases, at least a third (or about 200) could have been prevented through proper procedures carried out at home (proper medication administration, fever reduction, proper positioning in the crib to facilitate respiration, proper inhalator use, proper cleaning of respiratory pathways and so on). In addition, the day clinic received 5155 patients in the age group between 0 and 18 years, of which 999 were pulmonology patients with common respiratory complications.

By analyzing the data above, we have concluded that by educating parents and guardians properly, we will be able to decrease burden on the Pulmonology department of the Hospital and thereby release the necessary resources for patients with more severe conditions.

Through this project we intend to decrease the load on the Emergency Room, and consequently reduce the number of necessary hospitalizations and other procedures, ensuring the availability of resources for patients (children) who really need them. The program will include a set of lectures given by hospital staff about respiratory diseases and consequences, symptom identification and methods of prevention and treatment. The lectures will be held in the lecture theatre available in the Children's hospital by hospital staff including doctors, nurses, physical therapists, psychologists and dieticians.

The set of lectures will be provided free of charge, and the lectures will be recorded on video and made available online on a specifically designed website available to everyone in the Republic of Croatia, but also to all countries where similar languages are spoken in the region (Bosnia and Hercegovina, Serbia, Slovenia, Macedonia, and Montenegro).

The educational course will be promoted by hospital staff directly to patients, but also through a nation-wide awareness campaign that will invite parents and guardians to educate themselves in the matter in order to take better care of their children.

The second objective of this project is to donate some essential equipment to the Children's Hospital in Zagreb

necessary to enable the provision of service to patients during peak periods. Currently, the hospital is underequipped and several components are used long after their expiration dates. By donating this equipment, the project would ensure a more efficient and effective service to patients, prevent infections and complication due to faulty equipment and malfunctions and ensure a better throughput of patients through the system. The donation of the equipment is necessary because it will take at least a 1 to 2 years before the effects of the educational campaign begin showing the first results. The project includes the donation of the following equipment to the hospital:

- 8 Wall oxygen connections;
- 8 Wall Suction regulators (aspirator);
- 4 Pulse Oximeter with chargeable battery, charger and pediatric and adult sensor;
- 4 Apnea monitors;
- 3 Anti-decubitus mattresses;
- 15 Professional inhalation devices;
- 2 Pediatric reanimation sets (for breathing) – for adults;
- 2 Pediatric reanimation sets (for breathing) – for infants;
- 5 Thermoscan thermometers;
- 2 Vital sign monitors;
- 1 Vital sign monitor with stand;
- 3 Immobilization boards;
- 25 Visitation chairs;
- 1 Device for 24 hours impedance and esophageal pH metrics;
- 1 Portable aspirator;
- 1 Professional scale with height meter;
- 1 Transport wheelchair for patients;

All of the above equipment has been identified by hospital staff as essential to ensure the continuity of service. Due to budget restrictions and the overall inefficiency of the Croatian healthcare system, the hospital is unable to obtain this equipment on it's own, putting at risk the lives of children who are not receiving proper treatment. Therefore, this equipment represents an essential component of the project without which the effects of the educational components would have a delayed effect that could cost some children their lives.

The main beneficiaries of the project will be (a) the children treated at Pulmonology department of The Hospital – the provided medical equipment will provide faster diagnosis & healing, (b) parents who will get education about the children's respiratory diseases and how to prevent them and treat them at home and (c) the hospital which will be able to cut down the patient waiting list for GERB diagnosis and speed up child's recovery due to better medical equipment. The ultimate goal of the project is to decrease the overall number of visits to the Children's Hospital for all complications that could have been prevented at home, and therefore decrease the need for the equipment described above which the hospital currently cannot afford to buy. The budget of the project is 45.000 USD, consisting of the elements elaborated in the later segments of this application.

Areas of Focus

Which area of focus will this project support?

Disease prevention and treatment

Measuring Success

Location and Dates

Participants

Cooperating Organizations (Optional)

Name	Website	Location
Klinika za dječje bolesti Zagreb (Children's Hospital Zagreb)	https://www.kdb.hr/	Ulica Vjekoslava Klajića 16 Zagreb Croatia

Do any committee members have a potential conflict of interest related to a cooperating organization?
No

Why did you choose to partner with this organization and what will its role be?

The Children's hospital in Zagreb was chosen because of its unique status with regard to the treatment of children within Croatia. The Hospital is the only institution in Croatia, specializing in the treatment of children, and therefore the logical choice for a partner in this project. The most notable competencies and skills in the country already exist within the Hospital, and their know-how is an essential element for the identification of the goals of this project, and also for the execution of its activities.

The partner will play an important role in the project as it will provide all of the technical support for the project. Its staff will design and execute the educational program, and the donated equipment will be used to facilitate their daily operations.

The host club has been in close cooperation with the Hospital staff for several months while conducting research for this project. Once the activities of the project have been identified, the Hospital will participate in their execution, especially in the educational program, where the planned lectures will be given on their premises, and by their own staff members.

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.

The Rotary Club Zagreb Donji Grad, as host of this project will establish a committee that will head the project and ensure the regular and timely completion of the planned activities. They will conduct all communication with the Partner Hospital, organize tenders for the purchase of equipment, coordinate the realization of the educational program and execute all financial transactions regarding the project.

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

The Rotary Club Ljubljana 25 will provide the host club with its expertise and counsel regarding the activities of the project and the equipment purchased. It will help the host club run the tender procedures in their country in order to attempt to obtain a better deal for the purchase of the necessary equipment. The international partner will also provide the project with a financial donation of 5.000,00 EUR.

In addition to the Cash contribution from the Primary International Partner, the project will receive financial contributions from the following international contributors:

Rotary District 1410 - 5.000 USD (DDF)

Rotary Club Sarasota Bay – 2.000 USD (DDF)

Rotary Club Sarasota – 2.500 USD (DDF)

Mr. Barry Levinson - 500 USD

Rotary Club Mainz – 500 EUR

Rotary Club Mostar - 100 EUR

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
HRK	45000	02/12/2018

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 HRK	Cost in USD
1	Equipment	WALL oxygen connection (8 pcs)	N/A	8559	0
2	Equipment	Wall Suction regulator (aspirator) (8 pcs)	N/A	20288	0
3	Equipment	Pulse Oximeter with chargeable battery, charger and pediatric and adult sensor (4 pcs)	N/A	14011	0
4	Equipment	Apnea Monitor (4 pcs)	N/A	2029	0
5	Equipment	Anti-decubitus mattress 140x70 cm (3 pcs)	N/A	2916	0
6	Equipment	Professional inhalation device (15 pcs)	N/A	24029	1
7	Equipment	Reanimation set – pediatric (2 pcs)	N/A	2219	0
8	Equipment	Reanimation set – adult (2 pcs)	N/A	2219	0
9	Equipment	Thermoscan thermometer (5 Pcs)	N/A	6023	0
10	Equipment	Vital function monitor (2 Pcs)	N/A	27516	1
11	Equipment	Immobilization board (for reanimation purposes) (3 pcs)	N/A	2916	0
12	Equipment	Conference chair (for checkups) (25 Pcs)	N/A	5009	0
13	Equipment	Device for 24 hours impedance and esophageal pH metrics	N/A	100172	2
14	Equipment	Portable aspirator	N/A	2029	0
15	Equipment	Professional scale with height meter	N/A	4755	0
16	Equipment	Vital function monitor with stand	N/A	11222	0
17	Equipment	Transport wheelchair for patients	N/A	5009	0

18	Equipment	Website design and implementation for distribution of webinar	N/A	12680	0
19	Equipment	Recording and production of video webinar – set of lectures	N/A	31700	1
				Total budget:	5
				285301	

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	Zagreb-Donji Grad	5,040.00	252.00	5,292.00
2	District Designated Fund (DDF)	1913	5,040.00	0.00	5,040.00
3	Cash from Club	Ljubljana 25	5,884.00	294.20	6,178.20
4	District Designated Fund (DDF)	1410	5,000.00	0.00	5,000.00
5	Cash from Club	Mostar	100.00	5.00	105.00
6	Cash from Club	Mainz	588.00	29.40	617.40
7	Cash from Club	Sarasota	2,500.00	125.00	2,625.00
8	Cash from Club	Sarasota Bay (Sarasota)	2,000.00	100.00	2,100.00
9	Non-Rotarian contributions to be matched by TRF	Barry Levinson	500.00	25.00	525.00

*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 18,346.00 USD from the World Fund.

18346

Funding Summary

DDF contributions:	10,040.00
Cash contributions:	16,112.00
Non-Rotarian contributions matched by the Foundation:	500.00

Financing subtotal (matched contributions + World Fund): 44,998.00

Total funding: 44,998.00

Total budget: 5.00

Sustainability

Budget

Will you purchase budget items from local vendors?

Yes

Explain the process you used to select vendors.

If possible, All equipment that will be purchased through this project will be purchased from local vendors in Croatia.

Croatia has several companies dealing in medical equipment, several of which already collaborate with the Hospital.

A simple tender procedure will be conducted. A list of equipment will be sent to a set of companies that have been identified by preliminary research as acceptable bidders (at least three companies). Each company will receive an identical request and will have the same amount of time to reply with an offer. Once the deadline has been reached, the received bids will be evaluated based on the criteria of lowest price.

All bidders will be required to provide proof that maintenance for the offered equipment is readily available within the territory of Croatia.

Due to the specific situations on the medical equipment market, in some cases it may not be possible to receive more than one offer or proforma invoice for certain articles. This is due to the fact that some of the equipment described above is sold by vendors who have exclusive rights to the Croatian market, and therefore, there are no other vendors who can provide the necessary equipment.

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.

The equipment donated to the Hospital will be maintained according to Hospital procedures by certified maintenance companies.

The equipment purchased will be operated by trained hospital staff and will enter the ordinary maintenance plan of the Hospital. The personnel who will operate the equipment are already highly trained to use it and therefore, the danger for damage occurring because of mishandling is minimal. The equipment has been specifically selected according to the existing qualifications and training of the staff who will be using it.

The equipment will be purchased locally, with the condition that service and maintenance centers be available at all times, ensuring the proper maintenance and handling of the equipment.

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

See above.

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.

The equipment purchased will be used to replace old and faulty equipment currently in use at the Children's Hospital. This equipment is produced by renowned international producers at the highest technological standards.

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.

All items will be donated to the Children's Hospital in Zagreb, who will be their exclusive owner.

Funding

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

Yes

Please describe this funding source.

All post project activities will be funded out of the Children's Hospital's budget.

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
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District Rotary Foundation chair authorization

Name	Club	District	Status
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DDF authorization

Name	Club	District	Status
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Legal agreement

Name	Club	District	Status
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