



IMPACT EVALUATION REPORT

Program: Remedy Mission III

Location: Nasiriyah, Iraq

Dates: February 15-24, 2011

Surgical Partners: International Children's Heart Foundation

Other Partners: Living Light International, Vice President of Iraq

Surgeries Provided: 16

Cost Per Child in Aid from Int'l Donors: \$183

The following report was compiled by the Preemptive Love Coalition (PLC) for our donors and other constituents for the purpose of evaluating the impact of our surgical training programs in and across Iraq. In an effort to operate with excellence and transparency in all aspects, this report includes surgical, financial, and training data.

Summary

In February 2011, the Vice President of Iraq, His Excellency Mr. Adel Abdul Mahdi, contracted the International Children's Heart Foundation (ICHF) to perform surgery in Nasiriyah, Iraq - in partnership with Living Light International and the Preemptive Love Coalition - as a followup to our pilot program at that center in December 2010 (Remedy Mission II). Our missions aim to provide on-site surgeries and long-term development training for local cardiac care professionals at the Hussein General Hospital.

Over the course of the two-week mission provided provided heart surgery to 16 children.

The total cash cost of the mission to all partners (including local entities) was \$93,848 with a total cost-per-child of \$5,866.

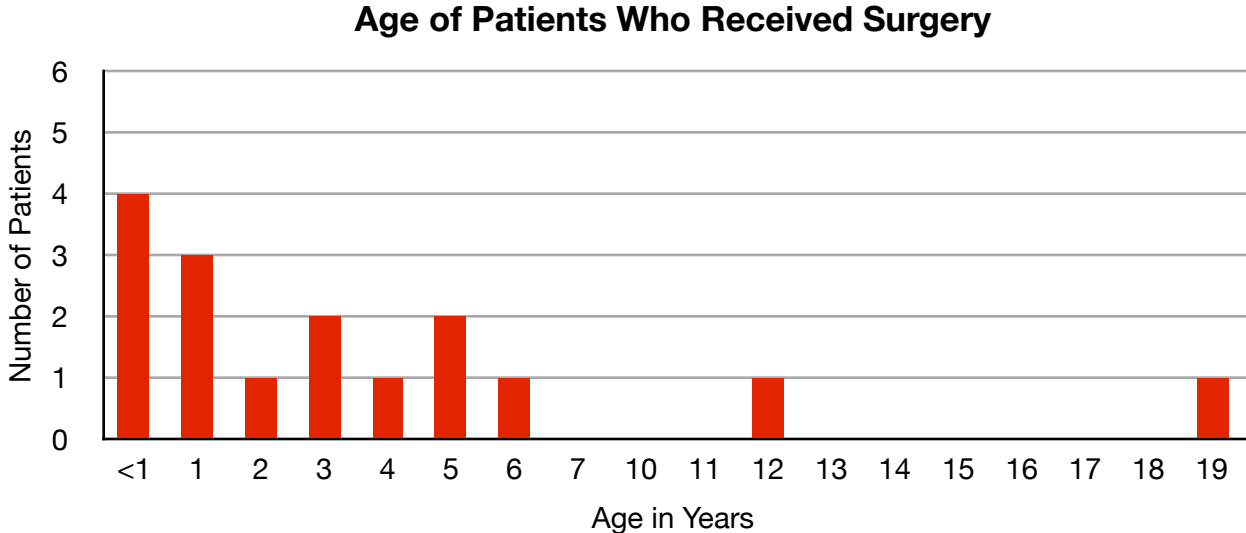
The total cash cost of the mission in aid from our international donors was \$2,930, with a cost-per-child of only \$183.

Our Patients

Patients were jointly selected by the local medical professionals and the international surgical team from a prepared list. Patients were selected variously on the basis of perceived urgency, time on the waiting list, and simplicity of surgery (for training purposes).

Patient information was recorded for medical purposes on perfusion and anesthesia reports and recorded redundantly into PLC's own database.

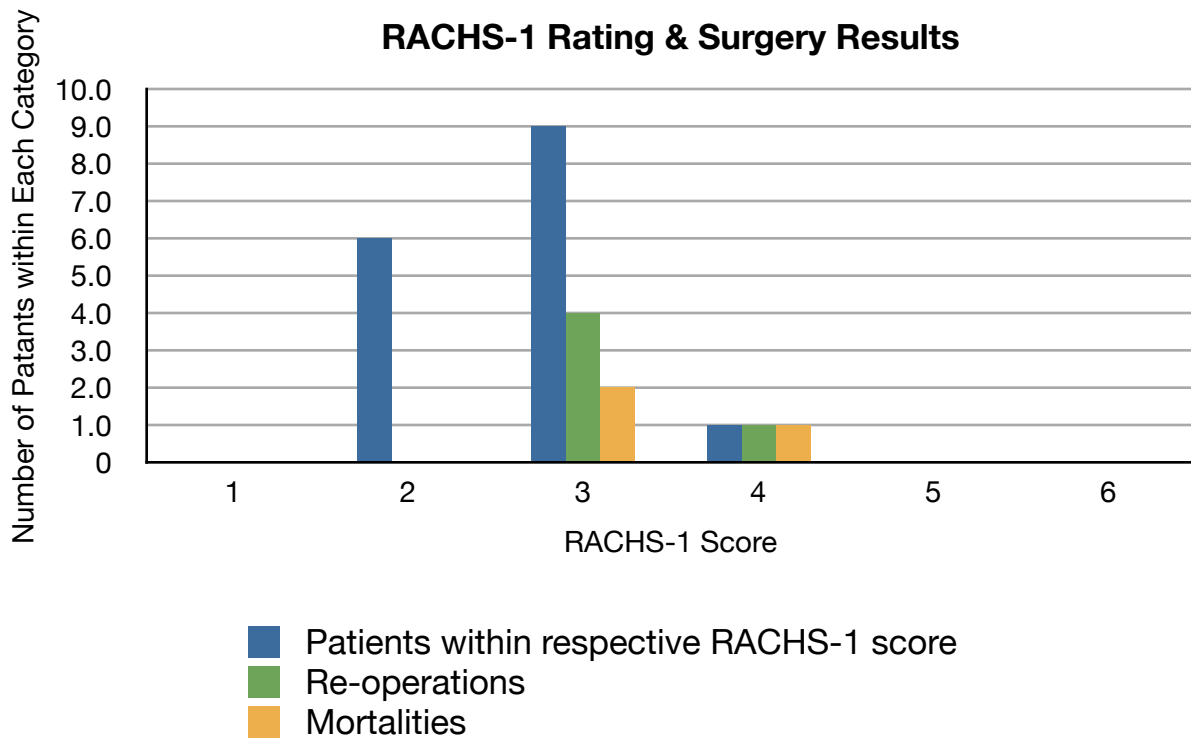
The following chart expresses the age of the patients who were selected to receive heart surgeries or interventional catheterizations during Remedy Mission III.



Of note is the one outlier - a 19 year old patient from Remedy II - who required a reoperation due to continued complications (which is common among older CHD children whose heart defects have taken a greater toll on their body).

Risk Adjustment for Congenital Heart Surgery Score (RACHS-1) and Summary of Surgeries Performed

Each qualifying patient is assigned a RACHS-1 (Risk Adjustment for Congenital Heart Surgery) score. This scale allows physicians to rate the risks of mortality for patients undergoing corrective surgery for congenital heart defects. Based upon the type of defect(s) present, a score is assigned from 1 (the lowest risk of mortality) to 6 (the highest risk of mortality). The following chart summarizes relevant surgical data from Remedy Mission III and the number of patients assigned to each RACHS-1 score.



Complications and Mortalities

All pediatric heart surgeries in world class pediatric hospitals carry at least a 2-10% chance of mortality. Our entire *raison d'être* is predicated on the reality that hospitals in Iraq are even less prepared for these complicated surgeries. They are, therefore, susceptible to higher mortality rates. Of course, the local and international team do not merely accept these complications and mortalities. We publish our results precisely because we are constantly striving for public accountability and trying to attain greater levels of expertise and surgical perfection. We think that your donations - and our claims of success - should be based on real data.

Re-operations

Four patients had re-operations (not counted in the surgery total).

Mortalities

There were 3 in-hospital mortalities during the course of the mission (18.8% of surgeries performed).

2 of the 3 mortalities occurred in patients who experienced complications during surgery *and* in the ICU.

Training of Local Staff

This report will not attempt to make claims regarding the long term, macro-development that was wrought through any single surgical mission. We will seek to address macro-development in an annual program report.

However, there are some quantitative data worth noting.

A conservative estimate of total hours of hands-on training that took place during this mission may be calculated as follows:

- 4 int'l surgical team x 16 hrs/day x 12 days in Iraq = 768 hours
- 11 int'l nursing team x 12 hrs/day x 12 days in Iraq = 1,584 hours

We conservatively provided 2,352 hours of hands-on training to doctors, engineers, technicians, and nurses that would not have otherwise been provided without this program. This estimate is extremely conservative, as each international team member often trained up to four local counterparts at any given time. The real number of hands-on training hours is likely closer to 5,000 hours.

Financials

In-Kind Donations of Supplies, Medications, Equipment, & Volunteer Time

Each Remedy Mission lasts 14 days, including approximately 2-3 total days for travel, 9-10 total days for surgery, and one day of rest mid-mission. During each mission, our international medical team of volunteers give their time and expertise to develop the local surgical and ICU staff.

The formula we use to calculate the in-kind value of the time volunteered is derived from the American International Health Alliance and the United States Agency for International Development:

- Physicians & biomedical engineers = \$1,275/day
- Nurses & technicians = \$675/day

Total value of time donated by ICHF staff and volunteers = \$175,350

- 4 Physicians/Engineers X 14 days X \$1,275 = \$71,400
- 11 Nurses/Technicians X 14 days X \$675 = \$103,950

Total value medical supplies & equipment donated by ICHF = \$12,313.29

Financial Partners

Multiple organizations and individuals contribute to cover the total financial cost of each Remedy Mission. While PLC plays a vital role in coordinating, organizing, and executing each surgical mission, we have designed the program so that the majority of the necessary funds come from local sources. This second mission to Nasiriyah would not have been possible without the local leadership of Living Light International and H.E. Vice President Adel Abdul Mahdi. Moreover, this report does not attempt to account for "indirect costs," such as the costs to local healthcare systems, the security detail provided by the Office of the Vice Presidency, the local accommodations to our international team, the cost of a family to travel to the surgery site, the opportunity costs of lost income for families as they wait for surgery, etc.

That said, the total cash cost per surgery for Remedy Mission III, including the expenses paid by the local government, was \$81,535. Because local accommodations and airfare were covered by local sources (and because some of the amounts we have are estimates), we believe the most important number is the amount paid by PLC's international donors, totaling \$2,930 in airfare and program staff compensation, or a mere \$183 per child in aid from non-local sources.

Breakdown of Expenses

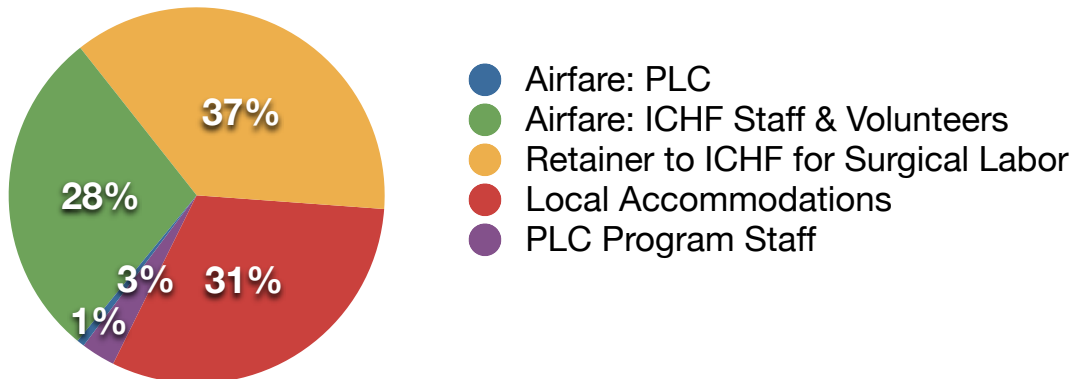
The chart below shows how each dollar was spent to cover the total cash needs of Remedy Mission III.

Expense	Amount	Donor Group
Airfare: PLC Staff	\$530	PLC International Donors
Airfare: ICHF Staff & Vols	\$23,195	Office of the Vice Presidency of the Republic of Iraq
Retainer to ICHF for Surgical Labor‡	\$30,000	Office of the Vice Presidency of the Republic of Iraq
Local Accommodations (Food, Hotel, Transport)	\$25,410†	Health Directorate, Thi-Qar Province, the Republic of Iraq
Local Program Staff	\$2,400	PLC International Donors
Total	\$81,535	

‡ Some organizations demand a strictly volunteer team, but we are unaware of a model in which volunteers alone can run as many missions per year as we require. We cannot accomplish our nationwide goals without paying to secure the personnel provided by ICHF.

† PLC was not privy to the exact amount spent on this item. Amount is derived from per diem recommendations by the United States Government for this area of Iraq.

Expenditure



List of Donors for Remedy Mission III

Special thanks to the following donors that gave a total of \$2,540 specifically to this project:

Jessica Ballanti
Zahra Mamdani
Lydia Bullock
Ben Fisher
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Jesse Roberts
Antonio Rodriguez
Jedediah Holler
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