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Grant Category:	Health
Project Name:	Children’s Health Support Project Surgical Clinic Phnom Penh, Cambodia
Project Partner:	Cambodian Children’s Fund (CCF)
Project Status:	Ongoing
Start Date:	May 2012
Completion Date:	April 2013
Reporting Period:	Full Year (May 2012 – April 2013)
Grant Amount:	\$15,240

Reporting Period Achievements

The newly completed surgical clinic has provided significant benefits for the Children’s Health Support Project (CHSP) as the team is now able to treat patients quickly and effectively. The success of the Clinic is evident in the 100% recovery rate for patients.

The medical tools purchased using the grant included a surgery kit, oximeter, respirator, laryngoscope, and most recently a surgery light and suction machine. 1,281 patients have been treated using the new equipment purchased over the past 6 months. The new tools have also been used to check patients with chest pain or pressure, chest palpitations, trouble breathing or anaemia.



The medicines and medical supplies portion of the grant has helped the facility to improve much needed services to extremely poor patients living in very unhealth conditions near the dumpsite.

Dana Asia Assessment and Recommendations

The CHSP is an effective program that is providing the very poor and vulnerable children living in the Dumpsite community with free access to quality healthcare. Without the services of CHSP many families would be unable to seek help as the cost to access alternative services would be beyond their financial capacity, as most live below the poverty line.

CHSP has analysed its services to determine where programs could be developed to not only further improve health results for community members, but also lower longer term program costs through the implementation of preventative measures.

Dana Asia confirms that these initiatives would positively impact on the results of the overall Program, and recommend their consideration.

Proposed Programs	US\$ pa
Post-Hospital Support	10,920-13,650
Health Education Incentives	2,760
Dengue Fever Campaign	2,000
Anti-Mosquito Supplies	4,675
Soap Distribution	10,800

Note: Photos courtesy of CCF

Budget Update

The year-end spend is US\$1,285 below budget due to the decision to purchase a lower cost surgery light. The additional funds will be used to purchase an Electrocardiography machine, which will test patients presenting with chest pain and other heart related symptoms.

Hospital Referral expenditure was higher due to an increase in the number of patients requiring admission to fee charging hospitals, as the fee-free hospital cannot treat some conditions including hernias and cannot provide eye or ear operations.

Budget (US\$)	Actual/Spend to Date (US\$)	Difference (US\$)
15,240	13,955	1,285

Proposed Program Enhancements

Project evaluation has determined that the implementation of some key activities would significantly improve the health of the target communities.



Post-Hospitalisation Support – The project supports patients during their hospital stay but does not have sufficient funds to provide post-hospitalisation support for a full recovery. Many hospitalised patients return home with weakened immune systems and require healthy food, however the Program lacks the funds to provide sufficient nutrition resulting in many developing infections such as diarrhoea, pharyngitis and bronchitis.

CHSP would like to develop one of the following options to overcome this issue:

1. *Comprehensive nutrition supplements for 1 week:*
US\$10,920 per year
US\$4 per day per child for meals and nutritional supplements x 7 days x 390 patients (hospitalisation rate in 2012/13)
2. *Post hospital care in Community Centre for 1 week:*
US\$13,650 per year
\$35 per week x 390 patients



Dengue Fever Campaign – The campaign was recently successfully trialled in the community with the support of the Phnom Penh Health Department (PPHD), and focuses on prevention and treatment of dengue fever. Total cost of **US\$2,000 per year** for 4 campaigns with 400 participants (US\$2 incentive per participant x 100 participants x US\$5 per PPHD facilitators x 10 facilitators x US\$100 for snacks and water x US\$150 for materials and transportation).

CCF YouTube link for pilot campaign:
https://www.youtube.com/watch?v=fodgFs_EKHw

Anti-Mosquito Supplies – In conjunction with the Dengue Fever Campaign, CHSP would like to introduce a program providing anti-mosquito supplies, at a **total cost of US\$4,675** including 3-4 person nets for 900, 4 guppy fish for 500 families and mosquito killing rackets for 100 families.



Source: Guardian UK

Soap Distribution – CHSP would like to tackle hygiene through the provision of two bars of soap per family per month at a total cost of **US\$10,800 per year** for 1,200 families.

Project Challenges and Solutions

Improper use of medications has been a significant challenge for the project. Regular training courses were introduced for families to reinforce the importance of following the correct procedures when taking medicines. The training has significantly improved the community’s knowledge of and use of medicines, thereby improving the recovery rates of patients.

Free Referral Hospital at Risk – the Kuntha Bopha Hospital is a key referral hospital for the project as its services are free. However it is experiencing significant financial issues and may be at risk of closure.

CHSP has estimated that if the Kuntha Bopha Hospital were to close there would be significant impact on the project. Approximately 540 children are referred to the Hospital each year for treatment of diseases including fever, bronchitis, bronchopneumonia with dyspnoea, meningitis, dengue fever, severe dehydration, burns, hematopathy, tuberculosis and surgery requiring general anaesthesia. The average cost per child at a fee charging hospital would be US\$200 equating to US\$108,000 per year. The Hospital has also performed operations on 5 children with heart deformities in the past 18 months.

The treatment would cost US\$4,000 per child in a fee charging hospital.

The CHSP team continue to monitor developments closely.

Project Update

Key Achievements	FY
Medical Treatment	6,363
Dental Treatment	1,289
Hospital Referral	390 (100% cure rate)
Minor Surgery	63 (100% cure rate)
Immunisation	883 (0% infection rate)
Training	49 courses to staff and patients
Treatment of Patients using new Equipment	1,281 (since installation)

Services to patients were steady across the year with service quality remaining at a high standard as indicated by the 98% improvement or full recovery rate for patients. Activity in the final quarter was up on the slower third quarter as the long Pchum Ben holiday and transport limitations due to the rainy season passed.



Medical Treatment

Medical treatments returned to normal levels with 2,746 patients, including 1,592 females and 1,154 males treated during the quarter included:

- 90% - upper respiratory diseases (common cold, pharyngitis, tonsillitis, bronchitis and pneumonia)
- 5% - ipetigo, scabies, accidents

Follow-up rates improved significantly in the final quarter with 99% of patients returning for post treatment checks, up from 95% in the third quarter.

Dental Treatment

Dental treatments continued to increase, up to 453 in the final quarter from 400 in the third quarter.

Treatments included teeth cleaning, filling, replacing and pulling. Tooth decay remains a significant problem with most patients not cleaning their teeth often or effectively.



Hospital Referrals

131 children were referred to hospital (79 females, 59 males), a small increase on 123 in the third quarter. Referrals were for conditions including severe fever, severe breathlessness, accidents, major surgery, severe malnutrition, severe diarrhea, dengue fever and HIV. A 100% cure rate was achieved in the final quarter.

All patients were supported throughout their hospital stay with hospital fees and transportation covered. Team members also looked after patients whose parents could not be with them.

Minor Surgery

15 patients (6 females, 9 males) received treatment at the surgery in the final quarter for issues including wounds, wound infections, abscesses and impetigo rashes. 100% of patients recovered well from surgery procedures during the quarter.

Immunisation

Immunisation rates returned to normal levels with 235 children (151 females, 84 males) receiving vaccinations according to the Vaccination Curriculum of Cambodia. The vaccines given fall into 3 groups:

1. Pentaxim - five vaccines against diphtheria, tetanus, pertussis, poliomyelitis, and Haemophilus Influenza type B
2. Euvax B - hepatitis B vaccine
3. Trimovax - vaccines against measles, mumps, and rubella.

The vaccines are achieving positive results with no children becoming infected with diseases they were vaccinated against.



Training

In the final quarter the clinic provided 12 health education sessions to the children of the dumpsite community and their families with 20-60 participants per session. The courses covered issues including hygiene, first aid, nutrition, common illnesses, dengue fever. 13 courses were held for community members covering safe pregnancy, medicine use, birth control, body hygiene and awareness of dengue fever and tuberculosis.

6 training sessions were held for the clinic's doctors and nurses. Training areas included larva migrans, cirrhosis, hepatitis A,B,C, vaccinations, bacterial pneumonia, meningitis, HIV, nourishment, child development and body hygiene. This training is vital to ensure staff are able to provide high quality treatment to patients.

Case Studies

Minor Surgery at New Surgical Clinic

Keo Thearith is 12 years old and who lives with his parents in Trea village at the Steung Meanchey Dumpsite. The family of five work as garbage scavengers.

Thearith had an abscess on his right forehead so he attended the clinic with his mother. The abscess required local anesthesia to drain the wound, and painkillers and antibiotics were prescribed. Thearith recovered in 5 days.

Thearith and his parents expressed their thanks to the clinic and its donors.



Hospital Referral

Uy Vatey is a 15-year-old girl who is studying at a CCF satellite school. She lives with her grandmother in Reussey Village along with her two siblings, as they have no parents. Vatey's grandmother works as a scavenger.

In March 2013, Vatey complained of strong headaches and fever and was treated for two days at the Clinic but did not improve. Vatey was referred to the Kuntha Bopha hospital. She was diagnosed with meningitis and hospitalised for a week with transportation, food and other needs funded by the project.

Vatey made a full recovery and was able to return to school. Vatey and her grandmother are very thankful to the project and its donors for their support.

Project Description

The objective of the Community Medical Centre project is to improve the health of vulnerable children and their families within the Dumpsite community through the provision of timely, efficient and effective medical services free-of charge.

The Community Medical Centre was established in 2009 within the dumpsite community centre compound and is staffed by a combination of local and international volunteer medical staff. Staff provide free consultations, medicines, immunisations and hospital referrals to poor local children and their families. The centre also runs a range of educational and support activities to assist the local community.

Background

The Municipality Waste Dump in southern Phnom Penh is home to more than 2,000 people including 600 children, living in makeshift huts bordering the dump. Conditions in and around the dump are extremely poor due to the toxic fumes created by the dump as well as the presence of glass, needles and medical rubbish within the heap. Children work from a very young age to support their families with approximately 73% working more than seven hours a day for an average income of US\$0.75/day.



Appendix 1 – Financial Update

Cambodia Children's Fund Children Health Support Project Total Expenditure as of April 2013							
Description	Approved Budget	May-12	Jun-Aug 12	Sep-Nov 12	Dec-Apr 13	Total Expense	Balance
Direct Salary	-	-	-	-	-	-	-
Medical Doctor	-	-	-	-	-	-	-
Nurse	-	-	-	-	-	-	-
Medical Equipment	6,600.00	3,613.00	0	0	675.50	4,288.50	2,311.50
Scope	2,600.00	2,300.00	0	0	0	2,300.00	300.00
Surgery Kit	1,000.00	450.00	0	0	145.00	595.00	405.00
Oximeter	840.00	820.00	0	0	0	820.00	20.00
Respirator	-	-	-	-	-	-	-
Laryngoscope	40.00	0	0	0	0	0	40.00
Balloon	120.00	43.00	0	0	0	43.00	77.00
New electricity connection (54 A)	-	-	-	-	0	-	-
Surgery light	2,000.00	0	0	0	528.50	528.50	1,471.50
Air conditioner	-	-	-	-	-	-	-
Medical Supply	6,640.00	466.69	2,428.68	2,350.82	4,422.74	9,668.93	(1,028.93)
Medicines and medical supply	7,200.00	466.69	1,529.68	990.46	2,347.57	5,334.40	1,865.60
Hospital referral	1,440.00	0	809.00	1,360.36	2,075.17	4,334.53	(2,894.53)
Total	18,240.00	4,079.69	2,428.68	2,350.82	5,096.24	13,955.43	1,284.57

Appendix 2 – Annual Medical Services Statistics

CCF Annual Medical Services Statistics for May 2012 – April 2013					
Indicators	May 2012	June – August 2012	September – November 2012	December 2012 – April 2013	Total
Medical consultation and treatment	70	1,998	1,992 (889 females, 1103 males)	2,788 (1,592 females, 1,196 males)	6,383
Dental treatments	51	385	400 (70 percent females, 30 percent males)	493 (246 female, 247 male)	1,329
Hospital referrals	8	133	123 (79 females, 50 males)	135 (79 females, 59 males)	399
Surgeries	10	24	14 (5 females, 9 males)	13 (6 females, 9 males)	63
Immunizations	160	296	181 (84 females, 108 males)	285 (155 females, 84 males)	869
Treatment using medical equipment funded by the grant			1,474 (737 pediatric patients and 737 adult patients)	3,162 (1,633 female, 1,509 males)	5,142 (1,633 female, 1,509 males, 700 under 18, 2,452 over 18)
CCF training for CCF doctors and nurses			9 courses on various diseases, attended by 2 male doctors and 24 female nurses.	9 courses on various diseases, attended by 12 nurses, 11 female, one male	18 courses
Training by CCF doctors and nurses for community			8 courses, each attended by 30 people, on use of medicines, skin rashes, and family planning.	7 courses on various topics, each attended by 50 people, half female, half male.	15 courses
CCF doctor to CCF staff and teachers				6 courses on various subjects, each attended by 10-11 people, half female, half male.	6 courses on various subjects, each attended by 10-11 people, half female, half male.
Volunteer nurse to CCF kids				11 courses on various topics, each attended by 20 – 60 kids, half boys, half girls.	11 courses
CCF nurse to CCF childcare staff				1 course on body hygiene, attended by 25 females.	1 course

Appendix 3 – Quarterly Medical Services Statistics

CCF Annual Medical Services Total Quarter December 2012 - April 2013						
Indicator	December 2012	January 2013	February 2013	March 2013	April 2013	Total
Medical consultation and treatment	958 (203 female, 289 male, 254 0-4 years, 173 5-12 years, 195 13-18 years)	991 (208 female, 257 male, 323 0-4 years, 223 5-12 years, 445 13-18 years)	972 (234 female, 238 male, 329 0-4 years, 196 5-12 years, 47 13-18 years)	479 (288 female, 181 male, 306 0-4 years, 126 5-12 years, 96 13-18 years)	442 (262 female, 179 male, 123 0-4 years, 1,321 5-12 years, 289 13-18 years)	3,748 (1,291 female, 1,754 male, 1,363 0-4 years, 1,892 5-12 years, 532 13-18 years)
Dental treatments	65 (23 female, 42 male, 2 0-4 years, 40 5-12 years, 13 13-18 years)	66 (27 female, 39 male, 6 0-4 years, 39 5-12 years, 21 13-18 years)	158 (104 female, 54 male, 9 0-4 years, 41 5-12 years, 77 13-18 years)	133 (74 female, 59 male, 3 0-4 years, 54 5-12 years, 74 13-18 years)	41 (18 female, 23 male, 2 0-4 years, 25 5-12 years, 14 13-18 years)	432 (246 female, 207 male, 13 0-4 years, 240 5-12 years, 199 13-18 years)
Inpatient referrals	65 (28 female, 37 male, 36 0-4 years, 24 5-12 years, 11 13-18 years)	22 (11 female, 9 male, 12 0-4 years, 7 5-12 years, 3 13-18 years)	7 (8 female, 3 male, 4 0-4 years, 3 5-12 years)	2 (1 female, 1 male, 1 0-4 years, 1 5-12 years)	44 (22 female, 22 male, 17 0-4 years, 3 5-12 years, 14 13-18 years)	131 (79 female, 58 male, 70 0-4 years, 34 5-12 years, 27 13-18 years)
Surgeries	7 (2 female, 5 male, 36 0-4 years, 14 5-12 years, 11 13-18 years)	1 (0 female, 1 male, 3-12 years)	1 (1 female, 13-18 years)	0	4 (2 female, 2 male, 4 5-12, 1 13-18 years)	13 (8 female, 5 male, 36 0-4 years, 27 5-12 years, 13 13-18 years)
Immunisations	86 (32 female, 54 male, 27 0-4 years, 17 5-12 years, 2 13-18 years)	286 (112 female, 174 male, 18 0-4 years, 28 5-12 years, 13 13-18 years)	88 (32 female, 56 male, 18 0-4 years, 16 5-12 years, 5 13-18 years)	14 (16 female, 18 male, 13 0-4 years, 26 5-12 years, 6 13-18 years)	47 (20 female, 27 male, 18 0-4 years, 19 5-12 years, 4 13-18 years)	231 (111 female, 120 male, 64 0-4 years, 111 5-12 years, 56 13-18 years)
Treatment using medical equipment funded by the grant	267 (16 female, 171 male, 25 0-4 years, 14 5-12 years, 13 13-18 years, 211 over 18 years)	379 (202 female, 307 male, 254 0-4 years, 74 5-12 years, 51 13-18 years, 401 over 18 years)	781 (334 female, 445 male, 36 0-4 years, 47 5-12 years, 39 13-18 years, 554 over 18 years)	612 (343 female, 267 male, 49 0-4 years, 62 5-12 years, 48 13-18 years, 757 over 18 years)	441 (172 female, 269 male, 52 0-4 years, 17 5-12 years, 22 13-18 years, 270 over 18 years)	3,262 (1,633 female, 1,629 male, 702 under 18, 2,460 over 18)
CCF training for CCF doctors and nurses	2 courses	4 courses	1	1	2	6 courses on various diseases, attended by 12 nurses, 11 female, one male
Training by CCF doctors and nurses for community members	6 courses			2	1	7 courses on various topics, each attended by 32 people, half female, half male
CCF doctor as CCF staff and teachers		2 courses	1	4		6 courses on various subjects, each attended by 10-11 people, half female, half male
Volunteer nurse as CCF staff			10			10 courses on various topics, each attended by 20-40 kids, half boys, half girls
CCF nurse as CCF medicine staff				1 course		1 course on body hygiene, attended by 20 females