



2018

Project Proposal

Provision of Oncology and Hematology drugs for MOH Hospitals



The Palestinian Ministry of
Health
INTERNATIONAL COOPERATION
DEPARTMENT



Project Name	Provision of Oncology and Hematology drugs for MOH Hospitals		
Project Cost	7,556,037 USD	Duration	12 months
Beneficiary Number	<p>Direct Beneficiary Number:</p> <p><input checked="" type="checkbox"/> 7,069 cancer and Hematology patients in Gaza Strip each year, of which 1,500 new cases each year.</p> <p>Indirect Beneficiary Number:</p> <p><input checked="" type="checkbox"/> 2 million people in Gaza Strip</p>	Implementation Party	MOH
Summary	<p>Provide (65) items of drugs for the treatment of cancer and hematology patients in Gaza Strip through two oncology centers at Gaza European Hospital, Rantisi Pediatric's Hospital and the Hematology Center at Shifa Medical Complex. The project aims at overcoming the shortage of cancer drugs in Gaza Strip, which is estimated to be (51) out of (65) items, with (78%) of the total number of drugs required to provide the service.</p> <p>This shortage threatens the lives of hundreds of patients, while the Israeli occupation authorities prevented the travel of (30%) of the total number of patients transferred outside Gaza Strip to receive treatment and the closure of the Rafah crossing. Therefore, the project aims to provide the necessary drugs and service within Gaza Strip for a year and the cost of the proposed project to (7,556,037) USD.</p>		
Introduction	<p>The Ministry of Health in Gaza Strip provides secondary services (hospital services) to two million people through 13 hospitals. It operates with a clinical capacity of 1761 beds per night. These beds are in fully operational condition with an occupancy rate of 90%. The beds represent 78.5% of the total number of Hospitals beds.</p> <p>The Ministry of Health provides cancer and hematology treatment services through two specialized centers in the European Gaza Hospital and the Rantisi Specialist Pediatric Hospital. The Hematology Service is provided through a specialized center at Shifa Medical Complex</p>		
Project Components	<ul style="list-style-type: none"> ❖ Provide (43) items of chemotherapy drugs for cancer in Gaza. ❖ Provide (8) items of drugs for cancer treatment protocols in Gaza Strip. ❖ Provide (14) items of drugs associated the cancer treatment protocols in Gaza. 		



**Problem
Description**

The population of Gaza Strip depends on the secondary health services (hospital services), more than 90% of which are on MOH hospitals, and the population receives health services at nominal prices. The number of health insured in Gaza is 1,788,397, representing 95.4% of the population of Gaza Strip. Health services are provided with nominal price. (MOH Reports) (Population Census Report, February 2018).

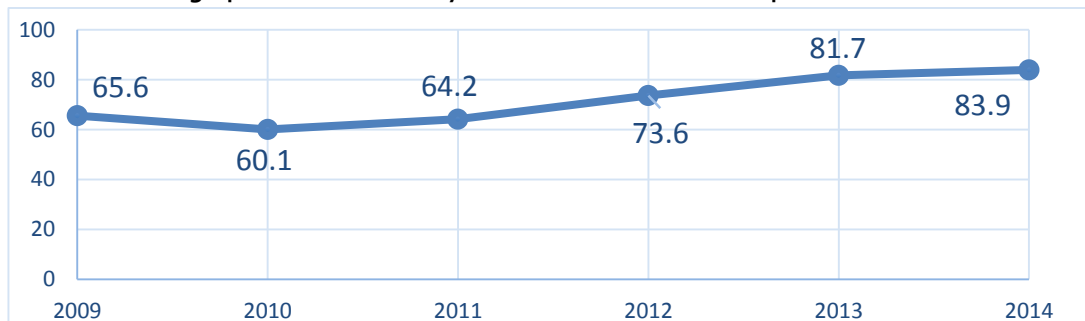
Cancer and hematology patients receive treatment through two specialized centers in Gaza European Hospital and Rantisi Specialized Hospital, in addition to a specialized center for the treatment of hematology in Shifa Medical Complex. Due to the lack of cancer drugs, which reaches (78%) of the total number of drugs, estimated to be (51) out of (65) items to treat cancer and hematology, patients are transferred out of Gaza Strip to get service. 30% of the patients who are transferred abroad are prevented by the Israeli occupation authorities from traveling through Beit Hanoun road crossing, thus depriving patients of the necessary service and seriously threaten their lives.

**Project
Justification**

- ❖ The rate of cancer in Gaza Strip increased from 32.7 to 83.9 cases per 100,000 people from 2005 to 2015, and about 1500 new cases are registered every year from all types of cancer (lung, blood, brain, digestive system, ...). The following table shows the rate of new annual cases of cancer patients per 100,000 people of the Gaza Strip

Year	Number of annual cases	Rate of new cases of cancer patients / hundred thousand
2009	945	65,8
2010	940	60,1
2011	1037	64,2
2012	1231	73,6
2013	1414	81,7
2014	1502	83,9
2015	1527	83,9

The graph shows the steady increase in cases of cancer patients in Gaza





	<ul style="list-style-type: none"> ❖ As a result of the lack of resources and a specialized center for the treatment of cancer in Gaza Strip, most of the cases are transferred for treatment outside Gaza Strip, but the occupation authorities refuse to grant permission to exit Gaza Strip for 30% of cancer patients. (WHO report). ❖ Mortality rate among cancer patients increased from 26.9 to 42 per 100,000 people from 2000 to 2016
Project Objectives	<p>General Objective: contribute to improve the health of Palestinians in Gaza Strip.</p> <p>Specific Objectives:</p> <ul style="list-style-type: none"> ❖ Provide the necessary drugs to treat (7,069) cancer patients and hematology diseases in Gaza Strip for one year. ❖ Contribute to the treatment of cancer patients in the Gaza Strip. ❖ Save the lives of (7,069) patients with cancer and hematology diseases in Gaza Strip

Expected Outcomes	<ul style="list-style-type: none"> ✓ Cancer and hematology treatment services are available in Gaza Strip for approximately 7,069 cases per year.
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Project Budget:

Cancer and blood disease medicines 2018							
#	Product Name	Dosage form	Unit	Estimated Price (\$)	Annual consumption	category	Annual cost (\$)
1	5-Flourouracil 1 g	Vial	SINGLE	5.10	4,800	Cytotoxic Drugs	24,480
2	Actinomycin D 0.5 mg	Ampoule	SINGLE	147.00	60	Cytotoxic Drugs	8,820
3	Adriamycin 10 mg (Doxurobucine)	Vial	SINGLE	10.13	180	Cytotoxic Drugs	1,823
4	Adriamycin 50 mg (Doxurobucine)	Vial	SINGLE	16.17	3,600	Cytotoxic Drugs	58,212
5	B.C.G. freeze dried TICE 5*(10*8 CFU)	Vial	SINGLE	151.35	36	Cytotoxic Drugs	5,449



6	Bevacizumab 400mg 16ml vial	Vial	SINGLE	1,536.25	600	Cytotoxic Drugs	921,748
7	Bevacizumab100mg 4ml vial	Vial	SINGLE	406.87	300	Cytotoxic Drugs	122,061
8	Bicalutamide 50 mg tab	Tablet	THOUSAND	879.04	12	Hormones & AntiHormones	10,548
9	Bleomycin 15 I.U	Vial	SINGLE	36.48	600	Cytotoxic Drugs	21,888
10	Bortizomib 3.5mg	Vial	SINGLE	425.40	350	Cytotoxic Drugs	148,890
11	Calcium folinate 15 mg	Tablet	THOUSAND	1,345.00	4	Vitamines and Minerals	4,842
12	Calcium folinate 50 mg	Vial	SINGLE	5.30	14,400	Vitamines and Minerals	76,320
13	Capecitabine 500 mg	Tablet	THOUSAND	1,132.00	100	Cytotoxic Drugs	113,200
14	Carboplatin 10 mg/ml, 45 mL	Vial	SINGLE	56.20	480	Cytotoxic Drugs	26,976
15	Chlorambucil 2 mg	Tablet	THOUSAND	1,447.00	3.50	Cytotoxic Drugs	5,065
16	Cisplatinum 50 mg	Vial	SINGLE	12.10	1,500	Cytotoxic Drugs	18,150
17	Cyclophosphamide 50 mg	Tablet	THOUSAND	1,490.27	1.00	Cytotoxic Drugs	1,490
18	Cyclophosphamide 500 mg	Vial	SINGLE	6.73	2,160	Cytotoxic Drugs	14,537
19	Cytarabine 100 mg	Vial	SINGLE	9.45	2,400	Cytotoxic Drugs	22,680
20	Dacarbazine 200 mg	Vial	SINGLE	32.14	1,440	Cytotoxic Drugs	46,282
21	Danazol 200 mg.	Capsule	THOUSAND	1,361.00	2.00	Hormones & AntiHormones	2,722
22	Deferasirox 250 mg	Tablet	THOUSAND	5,990.00	36	specific antidot	215,640
23	Deferasirox 500 mg	Tablet	THOUSAND	#####	48	specific antidot	619,200
24	Deferroxamine 500 mg (mesylate)	Vial	SINGLE	4.03	50,000	specific antidot	201,450
25	Docetaxel 20 mg	Vial	SINGLE	15.86	250	Cytotoxic Drugs	3,965
26	Docetaxel 80 mg	Vial	SINGLE	32.87	2,000	Cytotoxic Drugs	65,740
27	Epirubicin HCL 50 mg	Vial	SINGLE	40.92	50	Cytotoxic Drugs	2,046
28	Etoposide 100 mg /5 ml	Vial	SINGLE	12.49	1,200	Cytotoxic Drugs	14,988
29	Factor IX 500 I.U./ Vial	Vial	VIAL	116.70	720	Blood product and plasma subsitute	84,024



30	Factor VIII 500 I.U./ Vial	Vial	VIAL	94.40	4,800	Blood product and plasma substitute	453,120
31	Filgrastim 300 mcg/ml.	Vial	SINGLE	21.75	5,000	Cytotoxic Drugs	108,750
32	Gemcitabine 1 g	Vial	SINGLE	28.73	1,920	Cytotoxic Drugs	55,162
33	Goserelin Acetate 3.6 mg or ALIKE	Prefilled Syringes	SINGLE	109.07	2,500	Hormones & AntiHormones	272,665
34	Hydroxyurea 500 mg	Capsule	THOUSAND	230.00	90	Cytotoxic Drugs	20,700
35	Ifosfamide 2 g	Vial	SINGLE	38.00	480	Cytotoxic Drugs	18,240
36	Imatinib 400 mg	Tablet	THOUSAND	#####	22.0	Cytotoxic Drugs	367,092
37	Irinotecan 300mg/15ml	Vial	SINGLE	290.00	240	Cytotoxic Drugs	69,600
38	L-Asparaginase 10 000 IU	Vial	SINGLE	118.92	60	Cytotoxic Drugs	7,135
39	Letrozole 2.5 mg	Tablet	THOUSAND	243.00	84	Hormones & AntiHormones	20,412
40	Melphalan 2 mg	Tablet	THOUSAND	2,365.00	4.80	Cytotoxic Drugs	11,352
41	Mercaptopurine 50 mg	Tablet	THOUSAND	1,797.30	14	Cytotoxic Drugs	25,881
42	Mesna 400 mg	Vial	SINGLE	2.05	3,000	Cytotoxic Drugs	6,150
43	Methotrexate Sodium 50 mg / 2 ml	vial	SINGLE	7.50	1,440	Cytotoxic Drugs	10,800
44	Methotrexate Sodium 500 mg	Vial	SINGLE	18.00	100	Cytotoxic Drugs	1,800
45	Mitomycin 10 mg	Vial	SINGLE	33.10	960	Cytotoxic Drugs	31,776
46	Morphine Sulphate 30 mg	C.R. Tablet	THOUSAND	608.00	48.0	Opioid Analgesics	29,184
47	Nilotinib 2000 mg	tablet	THOUSAND	#####	14.4	Cytotoxic Drugs	583,937
48	Ondansetron HCl 8 mg or alike	Ampoule	SINGLE	1.5	6,000	Chemotherapy adjuvant	9,000
49	Ondansetron HCl 8 mg or alike	Tablet	THOUSAND	2,650.00	12	Chemotherapy adjuvant	31,800
50	Oxaliplatin 100 mg/ 20 ml	Vial	SINGLE	23.50	840	Cytotoxic Drugs	19,740
51	Oxaliplatin 50 mg/ 10 ml	Vial	SINGLE	14.70	360	Cytotoxic Drugs	5,292
52	Oxycodone HCL 5 mg + Paracetamol 325 mg	Tablet	THOUSAND	570.00	120	Opioid Analgesics	68,400
53	Paclitaxel 100 mg	Vial	SINGLE	23.50	240	Cytotoxic Drugs	5,640



54	Paclitaxel 300 mg	Vial	SINGLE	65.00	240	Cytotoxic Drugs	15,600
55	Pamidronate Disodium 30 mg	Vial	SINGLE	24.32	4,800	Chemotherapy adjuvant	116,736
56	Rituximab 100 mg /10ml	Vial	SINGLE	307.63	240	Cytotoxic Drugs	73,832
57	Rituximab 500mg/50ml	Vial	SINGLE	1,534.10	540	cytotoxic drugs	828,414
58	Tamoxifen 20 mg (as citrate)	Tablet	THOUSAND	161.00	120	Hormones & AntiHormones	19,320
59	Thalidomide 50mg tab	Tablet	THOUSAND	#####	7.2	CYtotoxic Drugs	103,198
60	Trastuzumab 440 mg	Vial	SINGLE	2,081.17	600	cytotoxic Drugs	1,248,703
61	Tretinoin 10 mg	Tablet	THOUSAND	3,443.24	0.5	cytotoxic Drugs	1,722
62	Vinblastine Sulphate 10 mg	Vial	SINGLE	12.20	480	Cytotoxic Drugs	5,856
63	Vincristine Sulphate 1 mg	Vial	SINGLE	9.00	480	Cytotoxic Drugs	4,320
64	Vinorelbine 50 mg	Ampoule	SINGLE	70.81	240	Cytotoxic Drugs	16,994
65	Zoledronic acid 4mg	Vial	SINGLE	68.00	360	Chemotherapy adjuvant	24,480
All total (\$)							7,556,037