Interview Sheets to Hospital/Dispensaries/Centers

7. Interview Sheets to Hospitals/Dispensaries/Centers

Check ?

contents of interview and confirmation of respondents who are the answer. 冒頭に、調査者は訪問目的、自己紹介、インタビュー時間、内容、回答者の確認を行う。

First of all, the interviewer explain the purpose of visit, introduce himself, interview time,

次に、	次に、配布した質問票について不明点等があるかどうかをたずねる。					
	DUTLINE dical facility					
1-1	Name of facility / 施設名	[]			
1-2	Location of facility / 所在地	[Region:	District : Navoi City]			
1-3	Year of establishment / 設立年	[Established in	<u> </u>			
	Describe history or outline :					
2. N	ANAGEMENT 運営体制					
2a. P	Policy of Medical Care 診療方針					

2a-1 Department and Number of Beds

- 2a-2 Mainly where do patients come from? (リファーよりSani. Aviationという現状から、ほとんどがナボイでは?) Percentage of referred patients
- 2a-3 Number of outpatients Number of inpatients Major diseases Frequency of Sanitary Aviation Number of ambulances including for S.A.

2b	Guideline of medical treatment for selected diseases below / 下記の選定疾病に対する治療指針
2b-1	Regarding the following diseases:1)Is it treated in your facility?2)What kind of treatment?3)If not treated, what will be done?4)Any death cases?
A	Myocardial infarction (MI) / 心筋梗塞 :
В	Unstable angina / 不安定狭心症 :
С	Diabetic coma / 糖尿病性昏睡 :
D	Hepatic coma / 肝性昏睡 :
E	Breast cancer / 乳がん :
F	Prolonged labour / 遷延分娩 :
G	Pediatrics pneumonia with respiratory failure / 呼吸不全を伴う小児肺炎 :
H	Cerebrovascular accident (CVA) / 脳血管障害 :

I Head injury / 頭部外傷 :

J Renal biopsy / 腎生検 :

K Low birth-weight infants by weight / 体重別の低出生体重児 :

3. ORGANIZATION STRUCTURE 組織体制

3a. Medical Partnership with other medical facilities /他の医療機関との医療連携

例えば、	ある特定の疾病につい	て、地区中央病院を超えて!	取り組んでいこうというのが医	療連携
1/1/2/01				- /// - 1/3

3a-1	How is medical partnership?	

3b. Intra-facility networking 院内ネットワーク

3b-1	How is intra-networking?	(Very well 3, not very2, bad1, None0)
	/ 医療連携の状況 :	Between medical departments / 診療科の間 1
	患者情報の共有、治療方針について	Inpatient and Outpatient/ 入院・外来 2
	診療科間で協議する、等	Sharing of medical facilities/ 施設の共有 3
		Sharing of medical equipments/ 機材の共有 4
3b-2	What kinds of facilities are you sharing?	 / 共有している施設は何ですか?
3b-3	What kinds of equipments are you shari	ng? / 共有している機材は何ですか?
3b-4	Is there any problem? / 問題はありますか	\? \

4. HUMAN RESOURCES 人員配置·人事評価

4a. Shifting 勤務形態

	5	
4a-1	Working hours per week 週間勤務時間	Doctors1hoursNurses2hours
4a-2	Working shift of weekday 平日の勤務シフト	(3 shift3, Day/night 2 shift2, other1) Doctors
4a-3	Working shift of weekend & holiday 週末・祝日の勤務シフト	(3 shift3, Day/night 2 shift2, other1) Doctors
4a-4	Other comments / 自由記入欄 :	
4b. Pe	erformance evaluation 人事評価	
4b-1	Is there staff performance evaluation system? / 人事評価の有無	(Yes1, No0) Skill
4a-2	Other comments / 自由記入欄 :	
4c. Tr	aining	
4c-1	Number of doctors	

4c-1	Number of doctors		
	Number of doctors trained at Tashkent Institute of Postgraduate Medical Institute (TIPME) for the last five years		
4c-3	Number of doctors/nurses trained at foreign countries		

5. USER FEE 有料化サービス

5a. Criteria of fee collection and exemption 対象者の基準、免除者の基準

5a-1	Services subject to user fee	
5a-2	Percentage of patients actually paid	%
5a-3	Future plan and prospect on paid service	es

6. DRUG SUPPLY MANAGEMENT 医薬品供給体制

6a. Waiting length from out of stock (days) 供給システム

6a-1 Outline of drug supply system 医薬品システムの概要 Ex) Drugs flow from the request to delivery, Payment flow / 申請から納品までのフロー、支払いのフロー

6a-2	Is there periodical supply system? / 定期配送の有無		(Yes1, No0)	
6a-3	How often per month / 定期配送の 頻度	(Yes1, No0)		times per month
6a-4	length of days for principal drugs /主	な医薬品の供給必要	日数	
	Drugs name:		Length of days	
	Drugs name:		Length of days	
6a-5	Is there pharmaceutical refrigerator? / 冷蔵庫の有無	🗆 enough 🛛 not	enough 🗆 nor	ne
6a-6	Is there drugs freezer? / 冷凍庫の有 無	🗆 enough 🗆 not	enough 🗆 nor	ne

6b. 輸血用血液

6b-1	Acquisition of blood for transfusion	入手経路
6b-2	Length of day to acquisition入手にか	かる日数
6b-3	Blood check system before transfusion 輸血前の血液テストシステム	(Yes 1, No2) ABO & RH test / 血液型·RH試験 1 Cross matching test / 交差試験 2 HIV/AIDS test
7. ME	EDICAL EQUIPMENT 機材関連	

7a. Existing medical equipment 現有医療機材 7a-1 The most insufficient medical equipment / 最も不足している医療機材

7a-2 Principal medical equipment due to age deterioration / 老朽化している主な医療機材

7a-3	Procurement condition of consumab	es	and spare	e pa	rts / 消	耗品	ŀ 交換(の入	手状況	
	X-ray film		enough		norma		□ lack		none	
	Labortory reagents		enough		norma		Iack		none	
	Anesthetic gas		enough		norma		□ lack		none	
	Medical oxygen gas		enough		norma		Iack		none	
	Paper for ECG & Ultrasound		enough		norma		Iack		none	
	Surgical instruments & consumables		enough		norma		□ lack		none	
7a-4	If select "lack" in 7a-3, the reason why? /	7	「足の場合」	、その	の理由は	t?				
	(消耗品等の入手ルートをあわせて尋ねる))								
7a-5	Maintenance system / メンテナンス体制									
	X-ray apparatus		contract v	with	agent		on call		none	
	Labortory auto analyzer		contract v	with	agent		on call		none	
	Repiratory ventilator		contract v	with	agent		on call		none	
	Gastrofiberscope / colonofiberscope		contract v	with	agent		on call		none	
	Patient monitoring apparatus		contract v	with	agent		on call		none	
	Daily check system / 日常点検体制									
	Labortory auto analyzer		maintena	nce	staff		opereati	ion st	taff 🛛	none
	Labortory auto analyzer Repiratory ventilator		maintena maintena				opereati opereati			none
	, , , , , , , , , , , , , , , , , , ,			nce	staff			ion st	taff 🛛	

7a-7 Describe principal problem about maintenance & daily check system /

7a-8 Management of inventory of medical equipment

8. FACILITY AND BUILDINGS 施設関連

8a. Actual condition of facility and buildings 施設の状況

8a-1 Outpatients flow / 外来患者の動線 (病院に入ってから出て行くまで)

8a-2 Main problem & features of outpatients flow / 外来患者動線の施設上の問題点と特徴

8a-3 Inpatients flow / 入院患者の動線(入院の手続きから退院の手続きまで)

8a-4 Main problem & features of inpatients flow / 外来患者動線の施設上の問題点と特徴

8a-5 改修や建替えをする場合の留意事項

8a-6	Problems of electricity, gas and water supply
	Oxygen
	Air
	Vacuum

.....

8b. Maintenance of facility and buildings **施股の維持管理** Technical problems?

Problems of electricity, gas and water supply

9. R	ESPONDENT(S)/ 回答者			
9a-1	Name & position (representative)	[1]	/]
	Name & position (sub person)	[2]	/]
	Name & position (sub person)	[3	/	<u> </u>
9a-2	Telephone	[]
9a-3	Facsimile	[]
9a-4	E-mail address	[<u> </u>
	INTERVIE	WER'S COMMENTS	<u>S</u>	

Interviewer's Name :	DATE :
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8. Template of Data Collection of Mortality Cases

8. Template of Data Collection of Mortality Cases

Death	Case 1 Personal data of	Heart diseases	No.1		
Date of Record		Code No			
Name of Hospital		Address/city			
Recorder		Evaluation			
(1) Death record	🗌 yes / 🔲 no				
1.Decedent name					
2. Sex	□ male/ □female				
3.Date of birth	Y / M /D	Age	years old		
4.Date of death	Y / M /D				
5.If neonate (from 6 days to 1 month old)	□mature /□immature				
6.Birth weight (infants from 6 days to 1 years old)	g				
7.Decedent residence	nationality / provi	nce	∕ □urban/□rural		
Address/city					
8.Place of death	□hospital	∕□decendent h	ome/□others		
Address/city					
9.Cause of death	□disease/□accident/□acc	ident during job/[]homicide/□suicide/□unknown		
10. Verifier on cause of death	□Physician who examined corpse /□physician who treated the patient /□pathologist /□forensic scientist				
11.Declaration by physician	Name	Title	9		
Evidence	-		ord of previous consultations ation /□autopsy		
I .a) Direct cause of death					
I .b) Underlying diseases					
II.Other diseases	c →b	→a	→dead		
12. Accidental death	Date of accident				
	Kind of accident				
	Place of Accident				
	Situation				
13 Issue of death certificate	Name of institution				
	Signature of physician				
14 Registration of residence	Signature of officer				
	Date of signature				

Death Case 1 Personal data of Heart diseases

Date of Record				Code No)	
(2) Medical record		yes (H	ow many	?)/ 🔲 no	
Number of medical record 1	No.	No. / name of disease				
Number of medical record 2	No. / name of disease					
Number of medical record 3	No. / name of disease					
	-					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information on heart disease				
Complications	□Hypertension □Diabetes)	□Hypercholesterolemia □Others(
Onset of acute	date /plac	e		
Duration of transport	hours	s since start of transport		
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other			
Oxygen during transport	□No /□Yes			
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)			
Use of thrombolytic agents	□No /□Yes If yes, give name:			
Clinical course after admission	\Box died within 72 hours / \Box died after 3 days or more			

Death Case 1 Personal data of Patients with CVA

Date of Record		Code No			
Name of Hospital		Address/city			
Recorder		Evaluation			
(1) Death record	🛛 yes 🖊 🗌 no				
1.Decedent name					
2. Sex	□ male/ □female				
3.Date of birth	Y / M /D	Age	years old		
4.Date of death	Y / M /D				
5.If neonate (from 6 days to 1 month old)	□mature /□immatur	e			
6.Birth weight (infants from 6 days to 1 years old)	g				
7.Decedent residence	nationality / pro	vince	∕ □urban/□rural		
Address/city					
8.Place of death	□hospit	al∕⊡decendent h	ome/□others		
Address/city					
9.Cause of death	disease/laccident/laccident during job/lhomicide/lsuicide/lunknown				
10. Verifier on cause of death	□Physician who examined corpse /□physician who treated the patient /□pathologist /□forensic scientist				
11.Declaration by physician	Name	Titl	e		
Evidence	-	se/⊟medical reco us medical examin	ord of previous consultations ation ∕□autopsy		
I .a) Direct cause of death					
I .b) Underlying diseases					
II.Other diseases	c →b	→a	→dead		
12. Accidental death	Date of accident				
	Kind of accident				
	Place of Accident				
	Situation				
13 Issue of death certificate	Name of institution				
	Signature of physician				
14 Registration of residence	Signature of officer				
	Date of signature				

Death Case 1 Personal data of Patients with CVA No.1

Date of Record				Code No		
(2) Medical record		lyes (H	ow many 3	?)/ 🛛 no	
Number of medical record 1	No.		/ n	ame of disease	9	
Number of medical record 2	No.	No. / name of disease				
Number of medical record 3	No.	No. / name of disease				
	-					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information on patient with CVA					
Complications	□Hypertension □Diabetes)	□Hypercholesterolemia □Others(
Onset of acute	date /plac	e			
Duration of transport	hours	since start of transport			
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other				
Oxygen during transport	□No /□Yes				
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)				
Use of thrombolytic agents	□No /□Yes	If yes, give name:			
СТ	□No /□Yes				
Operation	□No /□Yes				
Clinical course after admission	\Box died within 72 hours / \Box died after 3 days or more				

Death Case 1 Personal data of Hypertensive diseases

No.1

P					
Date of Record		Code No			
Name of Hospital		Address/city			
Recorder		Evaluation			
(1) Death record	🗆 yes / 🔲 no				
1.Decedent name		-			
2. Sex	□ male/ □female				
3.Date of birth	Y / M /D	Age	years old		
4.Date of death	Y / M /D				
5.If neonate (from 6 days to 1 month old)	□mature / □immature				
6.Birth weight (infants from 6 days to 1 years old)	g				
7.Decedent residence	nationality / prov	ince	∕ □urban/□rural		
Address/city					
8.Place of death	□hospita	ll∕□decendent h	ome/□others		
Address/city					
9.Cause of death	□disease/□accident/□accident during job/□homicide/□suicide/□unknown				
10. Verifier on cause of death	□Physician who examined corpse /□physician who treated the patient /□pathologist /□forensic scientist				
11.Declaration by physician	Name	Title	e		
Evidence	<pre>examination of corpse/lmedical record of previous consultations /l previous medical examination /lautopsy</pre>				
I .a) Direct cause of death					
I .b) Underlying diseases					
II .Other diseases	c →b	→a	→dead		
12. Accidental death	Date of accident				
	Kind of accident				
	Place of Accident	ļ			
	Situation	ļ			
13 Issue of death certificate	Name of institution				
	Signature of physician				
14 Registration of residence	Signature of officer				
	Date of signature				

Death Case 1 Personal data of Hypertensive diseases

Date of Record				Code No		
	î.					
(2) Medical record]yes (H	low many ?)/ 🛛 no	
Number of medical record 1	No.		/ na	ame of disease		
Number of medical record 2	No. / name of disease					
Number of medical record 3	No. / name of disease					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information o	n hypertensive disease				
Complications	□Hypertension □Diabetes [□Hypercholesterolemia			
Other Complication					
) Other Complication 2					
Other Complication 3					
Onset of acute	date /place	e			
Duration of transport	hours	since start of transport			
Method of transport	□ambulance/□ private /□walk /□public transp				
Oxygen during transport	□No /□Yes				
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)				
Clinical course after admission	☐ died within 72 hours / ☐ died after 3 days or more				

Death Case 1	Personal	data of	Cancer	patients
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Date of Record		Code No				
Name of Hospital		Address/city				
Recorder		Evaluation				
(1) Death record	🛛 yes / 🔲 no					
1.Decedent name		-				
2. Sex	□ male/ □female					
3.Date of birth	Y / M /D	Age	years old			
4.Date of death	Y / M /D					
5.If neonate (from 6 days to 1 month old)	□mature /□immature					
6.Birth weight (infants from 6 days to 1 years old)	g					
7.Decedent residence	nationality / provi	nce	∕ □urban/□rural			
Address/city						
8.Place of death	□hospital	l∕□decendent h	ome/□others			
Address/city						
9.Cause of death	\Box disease/ \Box accident/ \Box acc	cident during job/[]homicide/□suicide/□unknown			
10. Verifier on cause of death	□Physician who examined /□pathologist /□fore		cian who treated the patient			
11.Declaration by physician	Name	Name Title				
Evidence	-		ord of previous consultations ation ∕□autopsy			
I .a) Direct cause of death						
I .b) Underlying diseases						
II.Other diseases	c →b	→a	→dead			
12. Accidental death	Date of accident					
	Kind of accident					
	Place of Accident					
	Situation					
13 Issue of death certificate	Name of institution					
	Signature of physician					
14 Registration of residence	Signature of officer					
	Date of signature					

Date of Record				Code No		
(2) Medical record]yes (H	ow many ?)/ 🛛 no	
Number of medical record 1	No.	No. / name of disease				
Number of medical record 2	No.	No. / name of disease				
Number of medical record 3	No. / name of disease					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information on cancer patientse					
First diagnosis as cancer	Date Y /M Name of hospital				
Referred from		Name of hospital			
Referred to		Name of hospital			
Metastasis	□No /□Yes	If yes, whereve name:			
Onset of acute	date /place				
Duration of transport	hours since start of transport				
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other				
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)				
Radiation therapy	□No /□Yes				
Operation	□No /□Yes				
Clinical course after admission	☐ died within 72 hours / ☐ died after 3 days or more				

Death Case 1 Personal data of Cancer patients

Death Case 1	Personal	data of	Diabetic	diseases
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No.1

-				
Date of Record		Code No		
Name of Hospital		Address/city		
Recorder		Evaluation		
(1) Death record	🛛 yes / 🗌 no			
1.Decedent name				
2. Sex	🛛 male/ 🛛 female			
3.Date of birth	Y / M /D	Age years old		
4.Date of death	Y / M /D			
5.If neonate (from 6 days to 1 month old)	□mature /□immature			
6.Birth weight (infants from 6 days to 1 years old)	g			
7.Decedent residence	nationality / prov	ince / □urban/□rural		
Address/city				
8.Place of death	□hospita	I/□decendent home/□others		
Address/city				
9.Cause of death	□disease/□accident/□ac	cident during job/ \Box homicide/ \Box suicide/ \Box unknown		
10. Verifier on cause of death	□Physician who examined /□pathologist /□fore	corpse / \Box physician who treated the patient ensic scientist		
11.Declaration by physician	Name Title			
Evidence	-	e/□medical record of previous consultations s medical examination /□autopsy		
I .a) Direct cause of death				
I .b) Underlying diseases				
II.Other diseases	c →b	\rightarrow a \rightarrow dead		
12. Accidental death	Date of accident			
	Kind of accident			
	Place of Accident			
	Situation			
13 Issue of death certificate	Name of institution			
	Signature of physician			
14 Registration of residence	Signature of officer			
	Date of signature			

Death Case 1 Personal data of Diabetic diseases

No.2

Date of Record				Code No		
(2) Medical record]yes (H	ow many ?	•)/ 🔲 no	
Number of medical record 1	No.	No. / name of disease				
Number of medical record 2	No.	o. / name of disease				
Number of medical record 3	No.	No. / name of disease				
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information on diabetic disease				
First diagnosis as diabetes melitus	Date Y /M	Name of hospital		
Referred from		Name of hospital		
Referred to		Name of hospital		
Complications	Diabetic nephropathy	betic foot Diabeitc retinopathy		
Other Complications				
Onset of acute	date /place			
Duration of transport	hours since start of transport			
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other			
Oxygen during transport	□No /□Yes			
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)			
Consciousness level on arrival	□Diabetic coma □Hypoglycemia (low blood sugar)			
Clinical course after admission	□ died within 72 hours /□died after 3 days or more			

Date of Record		Code No			
Name of Hospital		Address/city			
Recorder		Evaluation			
(1) Death record	🗆 yes / 🔲 no				
1.Decedent name		-			
2. Sex	□ male/ □female				
3.Date of birth	Y / M /D	Age	years old		
4.Date of death	Y / M /D				
5.If neonate (from 6 days to 1 month old)	□mature /□immature				
6.Birth weight (infants from 6 days to 1 years old)	g				
7.Decedent residence	nationality / prov	ince	∕ □urban/□rural		
Address/city					
8.Place of death	□hospita	I∕□decendent h	ome/□others		
Address/city					
9.Cause of death	□disease/□accident/□ac	cident during job/[homicide/ suicide/ unknown		
10. Verifier on cause of death	□Physician who examined /□pathologist /□fore		cian who treated the patient		
11.Declaration by physician	Name Title				
Evidence	<pre>examination of corpse/ medical record of previous consultations / previous medical examination / autopsy</pre>				
I .a) Direct cause of death					
I .b) Underlying diseases					
II.Other diseases	c →b	→a	→dead		
12. Accidental death	Date of accident				
	Kind of accident				
	Place of Accident	ļ			
	Situation	ļ			
13 Issue of death certificate	Name of institution				
	Signature of physician				
14 Registration of residence	Signature of officer				
	Date of signature				

Date of Record				Code N	o	
(2) Medical record]yes (H	ow many '	?)/ 🛛 no	
Number of medical record 1	No.					
Number of medical record 2	No.	No. / name of disease				
Number of medical record 3	No. / name of disease					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information on Kidney disease				
First diagnosis as kidnev disease	Date Y /M	Name of hospital		
Referred from		Name of hospital		
Referred to		Name of hospital		
Complications	☐Hypertension ☐Diabetes ☐Hypercholesterolemia			
Regular dialysis	□No /□Yes			
Onset of acute	date /place			
Duration of transport	hours since start of transport			
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other			
Oxygen during transport	□No /□Yes			
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)			
Clinical course after admission	☐ died within 72 hours / ☐ died after 3 days or more			

Death Case 1 Personal data of Kidney diseases

Death Case 1 Personal	data of Liver diseases
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_			
Date of Record		Code No	
Name of Hospital		Address/city	
Recorder		Evaluation	
(1) Death record	🗌 yes / 🔲 no		
1.Decedent name			
2. Sex	□ male/ □female		
3.Date of birth	Y / M /D	Age	years old
4.Date of death	Y / M /D		
5.If neonate (from 6 days to 1 month old)	□mature /□immature		
6.Birth weight (infants from 6 days to 1 years old)	g		
7.Decedent residence	nationality / prov	nce	∕ □urban/□rural
Address/city			
8.Place of death	□hospita	l∕□decendent h	ome/□others
Address/city			
9.Cause of death	□disease/□accident/□ac	cident during job/[□homicide/□suicide/□unknown
10. Verifier on cause of death	□Physician who examined /□pathologist /□fore		cian who treated the patient
11.Declaration by physician	Name Title		
Evidence			ord of previous consultations ation ∕□autopsy
I .a) Direct cause of death			
I .b) Underlying diseases			
II.Other diseases	c →b	→a	→dead
12. Accidental death	Date of accident		
	Kind of accident		
	Place of Accident		
	Situation		
13 Issue of death certificate	Name of institution		
	Signature of physician		
14 Registration of residence	Signature of officer		
	Date of signature		

Death Case 1 Personal data of Liver diseases No.2

Date of Record			Code No			
(2) Medical record		yes (H	ow many â	?)/ 🛛 no	
Number of medical record 1	No.	No. / name of disease				
Number of medical record 2	No.	No. / name of disease				
Number of medical record 3	No. / name of disease					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

(3) other information of	3) other information on Liver disease				
First diagnosis as Liver disease	Date Y /M	Name of hospital			
Referred from		Name of hospital			
Referred to		Name of hospital			
Complications	□Esophageal varices □Ascit	es □Hepatorenal syndrome			
Other Complications					
Onset of acute	date /place	e			
Duration of transport	hours since start of transport				
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other				
Oxygen during transport	□No /□Yes				
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)				
Hepatic coma on arrival	□No /□Yes				
Branched amino acid solution	\Box Not given / \Box Yes, given				
Clinical course after admission	\square died within 72 hours / \square died after 3 days or more				

Death Case 1	Personal data	a of Childhood ARI
--------------	---------------	--------------------

Date of Record		Code No	
Name of Hospital		Address/city	
Recorder		Evaluation	
(1) Death record	🗆 yes / 🔲 no		
1.Decedent name			
2. Sex	□ male/ □female		
3.Date of birth	Y / M /D	Age years old	
4.Date of death	Y / M /D		
5.If neonate (from 6 days to 1 month old)	□mature /□immat	ure	
6.Birth weight (infants from 6 days to 1 years old)	g		
7.Decedent residence	nationality / p	rovince / 🛛 urban/ 🗋 rural	
Address/city			
8.Place of death	□hos	oital/□decendent home/□others	
Address/city			
9.Cause of death	\Box disease/ \Box accident/ \Box	laccident during job/ homicide/ suicide/ unknown	
10. Verifier on cause of death	□Physician who examir /□pathologist /□f	ed corpse /	
11.Declaration by physician	Name Title		
Evidence	<pre>examination of corpse/lmedical record of previous consultations /l previous medical examination /lautopsy</pre>		
I .a) Direct cause of death			
I .b) Underlying diseases			
II.Other diseases	c →b	→a →dead	
12. Accidental death	Date of accident		
	Kind of accident		
	Place of Accident		
	Situation		
13 Issue of death certificate	Name of institution		
	Signature of physician		
14 Registration of residence	Signature of officer		
	Date of signature		

Death Case 1 Personal data of Childhood ARI

Date of Record	Code No					
(2) Medical record		yes (H	ow many ?	•)/ 🛛 no	
Number of medical record 1	No.	No. / name of disease				
Number of medical record 2	No.	No. / name of disease				
Number of medical record 3	No. / name of disease					
1.Decedent name						
2.Sex	□ male/ □female					
3.Date of birth	Y	/ M	/D	Age	years old	
4.Date of death	Y	/ M	/D			

3) other information on childhood ARI				
First diagnosis as ARI	Date Y /M	Name of hospital		
Basis of diagnosis	□Chest X ray /□Respirati	on rate ∕□Others		
Unset of acute	date /place	e		
Duration of transport	hours	since start of transport		
Method of transport	□ambulance/□ private car /□walk /□public transportation/ □the other			
Oxygen during transport	□No /□Yes			
Dead on arrival	\Box No(\rightarrow go to next question) / \Box Yes (\rightarrow end of study)			
Oxygen after admission	□No /□Yes			
Intravenous antibiotics	□No /□Yes			
Clinical course after admission	\Box died within 72 hours / \Box died after 3 days or more			

9. Points of Mortality Cases Study

9. Points of Mortality Cases Study

	At hospitals in Navoi	At Ryon-level hospitals
Common	When symptoms began?	When symptoms began?
to every	When consulted to a doctor?	When consulted to a doctor?
diseases	When admitted?	When admitted?
	What kind of treatment given?	What kind of treatment given?
		Why not referred to a specialized
		hospital?
		Do they know the treatment/
		referral standard approved by MOH?
		Criteria used to refer the patient to a specialized hospital?
	Why not let the patient go home	Why not let the patient go home
	before dying?	before dying?
	Referred from other health facilities? If yes, \rightarrow	→collect detail patient data from that particular Ryon CH.
Ischemic	Direct cause of death: power failure,	Direct cause of death: power failure,
heart	arrhythmia, or else.	arrhythmia, or else.
disease	Patient monitor applied?	Patient monitor applied?
	Plasminogen activator / Urokinase	Plasminogen activator / Urokinase
	given?	given?
Cerebro-	CT study performed?	CT study performed?
vascular	How do they differentiate between	How do they differentiate between
attack	hemorrhage and infarction?	hemorrhage and infarction?
	Criteria to refer the patients to a	Criteria to refer the patients to a
	neurosurgeon?	neurosurgeon?

	At hospitals in Navoi	At Ryon-level hospitals
Liver	Long-term follow up has been done?	Long-term follow up has been done?
diseases	Is ultrasonography applied to check liver cirrhosis? Is interferon therapy available?	Is ultrasonography applied to check liver cirrhosis? Is interferon therapy available?
Kidney	Long-term follow up has been done?	Long-term follow up has been done?
diseases	Criteria to refer the patients to a nephrologists/urologist? Is hemodialysis a realistic choice of treatment for the local patients? Is renal biopsy study applied to confirm diagnosis?	Criteria to refer the patients to a nephrologists/urologist? Is hemodialysis a realistic choice of treatment for the local patients?
Diabetes	Long-term follow up has been done? Which indicator is used as target of control? Is oral antidiabetic available? Is insulin available?	Long-term follow up has been done? Is oral antidiabetic available? Is insulin available?
Childhood ARI	When oral antibiotics are started? Diagnosis based on respiration ratio, X-ray, or both? When i.v. antibiotics are started? Is oxygen available anytime? Is mechanical ventilator available anytime?	When oral antibiotics are started? Diagnosis based on respiration ratio, X-ray, or both? When i.v. antibiotics are started? Is oxygen available anytime?
Cancers	Is the patient followed up at your hospital or at some other hospital? Is the surgical resection of cancer available? Is chemotherapy available	Is the patient followed up at your hospital or at some other hospital?

10. Guideline and Questionnaire for Care Seeking Behavior Survey

10.1 Guideline for Care Seeking Behavior Survey in Navoi Region

JICA STUDY TEAM FOR THE DEVELOPMENT STUDY ON THE REFORM OF HEALTH CARE SERVICES IN NAVOI REGION

1. Selection of the family to be interviewed.

Target areas (Rayon/City/Village(SVP)) are presented in "Route Map Card" for each team. SVP to be visited shall be finally decided with a chief doctor or his designated personnel of the Rayon Central Hospital (RCH).

In city place, surveyors shall ask consultation to the chief doctor to select microrayons (coverage area of each patronage nurse) to be visited.

In the target villages/ microrayons surveyors shall select the target family as follows:

- (1) Surveyors shall ask a patronage nurse the member of families in the target area in Census paper; and
- (2) Surveyors shall divide the above number into the target number of families in the area and define an interval of random sampling.

For example: the team is going to interview 10 families in the particular area where total number of families are 120. Then the team shall select every 12th family.

2. Introduction and Informed Consent.

Surveyors should visit every family accompanied by health visitor or GP nurse.

When you see a member of the target family, you shall explain the objective and acceptability of the interview.

If he/she does not accept to be interviewed or is not a usual resident, (de jure)

Surveyors just say "thank you" and move to next family.

If he/she accepts to be interviewed, ask other adult family members to join the interview as a second interviewee. Ideally, if the head of the household is the main interviewee and the secondary is his/her spouse.

Surveyors shall explain to the interviewees that the information will be used by the Study team within the framework of this study and personal information never be disclosed to other parties.

3. Administrative information

- Date
- Area of research Urban– 1, Rural 2.
- City/Rayon Code: See the following table

Area	Code	Area	Code
Navoi city	101	Navbakhor rayon	251
Tinchlik city place	102	Nurata city	161
Zarafshan city	111	Gazgan city place	162
Muruntau city place	112	Rural area of Nurata rayon	263
Karmana city place	121	Tamdi rayon	271
Malikrabad city place	122	Uchkuduk city	181
Rural area of Karmana rayon	223	Shalkar city place	182
Kanimekh city place	131	Uchkuduk rayon	283
Rural area of Kanimekh rayon	232	Yangiabad city	191
Kiziltepa city place	141	Langar city place	192
Rural area of Kiziltepa rayon	242	Rural area of Khatirchi rayon	293

- You must write the code of the family interviewed (write the serial number for your team)

- Write the code of your team (A, B, C, D, E, F, G)
- Write the interviewees surnames and initials of given names.
- Write the name of the place where you visit (makhalla, village, city microrayon name)
- Write the address of the interviewed householders (family)
- Write the family contact information (phone number)
- Sometimes, you need to return to the interviewees to ask/confirm their answer.

4. Questions

Section A: General characteristics of the family

A1. Ask how many years the family has lived here? **(A2).** You can see the type of building and then ask how many square meters their house occupies **(A3).** Put down the code of building type and **(A4)** ask who is the head of the household.

Section B: General characteristics of family members

You shall ask the following questions about the family members: who usually lives in this house.

Start with the main interviewee and then, fill the information about the other family members.

- **B1**. Name: Write the first name and the first letter of the patronymic for the personal identification.
- **B2**. Family role: Relation to the head of the family: Is he/she, for instance, the daughter, parent of the head of the family?

B3. Sex B4. Age B5. Nationality

- **B6.** Education (more than 6 years old): what institution they finally graduated from or where they study presently.
- **B7.** Level of education:
- If he/she goes to school or studies in educational institution, ask the class (course) and write the appropriate code. If he/she did not complete (dropped out), write **-T**, if completed all the classes/ courses of the institution, write **99**
- **B8**. Marital Status
- **B9.** Occupation:

What kind of job does he/she usually do? If he/she has worked for the last 12 months, ask what kind of job she/he did, if he/she did not work, ask what he/she has done last 12 months.

01.	Manager , Businessman	Person who works in government agency/ organization or
	and Entrepreneur	private company dealing with administrative activity.
02.	Professional	Person who deals with intellectual/ creative work which needs
		higher education such as:
		poets, writers, doctors, teachers, professors etc.
03.	Paraprofessionals	Person, who deals with work, which needs special education/
		training such as: nurse, feldsher, laboratory worker, day care
		center worker; etc.
04.	Office workers	Supplier, accountant, secretary in private or government agency.
05.	Trade and Services	Salesman or service providers in private or government
		agency/organization, retailers and service job.
06.	Skilled manual labor	Skilled manual labor in private or state enterprise
07.	Unskilled manual labor	Unskilled manual labor in private or state enterprise
08.	Agriculture	Farmers working in agriculture and forestry, and fisherman
09.	Stockraising	Cattle or other animal raising

Section C: Living Standard

- **C1**. Find out who makes decisions for expensive purchase in the family, such as: house or vehicle.
- C2. Ask if the family reads newspapers regularly.
- C3. Ask if the family use mass media (radio, TV, telephone, internet)
- C4a Where does the family usually buy food, clothes, medicines and home appliances?
- C4b How do they usually get there?

Item	Description
Food	Food items the family eats regularly
Clothing	Shirts, underwear, pants, etc. for family members
Medicines	Medicines the family uses regularly or not
Home electric appliances	As TV sets, radio, computer, washing machine, lights

Section D: Care seeking behavior for acute illness, trauma (accident) and chronic disease for the last 12 months

D1	D1. Health problems for the last 12 months	
	"Disease" includes any acute ((D1b) and chronic (D1c) disease, and trauma or accident	
	(D1a) and if there is no disease or trauma, go to section F.	
D2	- D4. Care seeking behavior for the health problems	
	D2a, D3a, D4a	Find out who was the provider of health care service?
	D2b D3b, D4b	Where was the health care service provided?
	D2c D3c, D4c	How did the person get there to seek care?
	D2d, D3d, D4d	Was the family satisfied with the service provided?
	D2e, D3e, D4e	If the answer for D2a, D3a, D4a «01 – nobody, nowhere»,, . ask the reason
	D2f, D3f, D4f	If the answer for D2d, D3d, D4d is «02» or «03» ask the reason
D5	- D7. Access to the medicine	
	D5a, D6a, D7a	Where did he/she get the medicine?
	D5b, D6b, D7b	How did they get the place?
	D8 - D10.	Referring
	D8a, D9a, D10a	Did someone advice him/her to go to other Health facilities?
	D8b, D 9b, D10b	Did the health personnel explain him/her the above?
	D8c, D9c, D10c	Did he/she follow the advice?
	D8d, D9d, D10d	Which health facility did he/she go?
	D8e, D9e, D10e	If the answer for D8c, D9c, D10c is «No», ask the reason
	D8f, D9f, D10f	Was the family satisfied with the care?
	D8g,D9g, D10g	If the answer for D8f, D9f, D10f is "02" or "03" ask the reason.

SECTION E. Care seeking behavior for chronic diseases, mentioned in D1c.

Write the code of family member, who has chronic disease.(see D1c)

- E1 How long has he/she had the disease?
- E2 Where does he/she go to seek care?
- E3 How does he/she get there?
- E4a If he/she has changed his/her behavior, where he/she had sought care before ?
- E4b The reason for above change
- E5 If the answer for E2 is "D", ask the reason
- E6 Does the patient have medicine?
- E7 Where does he/she currently get the medicine?
- E8 How does he/she get there?
- E9a Is he/she satisfied with the health service?
- **E9b** If the answer for E9a is "02 or "03" ask the reason

E10 Who takes the final decision about treatment?

SECTION F Care seeking behavior for maternal woman for last 5 years

- **F1** Previous pregnancies
 - F1a The result of the first pregnancy.
 - **F1b** The result of the second pregnancy
- F2 Present pregnancy
 - F2a Period of present pregnancy. If the woman is not pregnant, write "00"
 - **F2b** The status of present pregnancy.
- **F3**, **F4**, **F5** for the last/present pregnancy

If there is a woman in the family, who has been pregnant for the last 5 years, ask details of prenatal care and delivery.

In this section, surveyors shall write the code of family member, of the above woman.

- F3a Care seeking behavior for prenatal care.
- **F3b** Frequency of the prenatal care.
- F3c Access to the care
- F3d If she has changed care seeking behavior, ask the reason.
- F3e Satisfaction about the care.
- F4a Second care seeking behavior for prenatal care.
- F4b Frequency of the above care
- F4c Access to the care.
- F4d Satisfaction about the care.
- F5a Third care seeking behavior for prenatal care
- F5b Frequency of the above care
- F5c Access to the care.
- F5e Satisfaction about the care.
- F3g, F4g, F5g If the answer for F3e, F4e, F5e is "02" or "03", ask the reason.
- F6, F7 Ask about the last pregnancies for the last 5 yearsDon't forget to write the delivery code of the family member
- F6a Find out where the woman had the first delivery.
- **F6b** Who attended the delivery?
- F6c Who among family members participated in delivery?
- F6d Was the woman satisfied with the health service?
- F7a Find out where the woman had the second delivery?
- F7b Who attended delivery ?
- F7c Who among family members participated in delivery ?
- F7d Was the woman satisfied with health service?
- F8 Who made decisions for care seeking behavior for pregnancy and delivery?
- **F6e, F7e** If the answer for F6d, F7d, is «02» or «03» ask the reason.

Section G Health care service for children under 6 for the last 12 months

If the family has children under 6 years old, ask the details of care seeking behavior for health checkup and immunization. Surveyors shall write the code of the child.

- G1 Is the child checked up regularly?
- G2a Who provides the regular checkup?
- G2b How often?
- G2c How does the family take the child there?
- G3a Who provides regular checkup of the child at home?
- G3b How often?
- G4 Does the child get necessary vaccination?
- G5 Are the parents satisfied with the health service?
- G6 Who usually takes the final decision regarding care seeking behavior for children?
- **G7** If the answer for **G1** is "01", ask the reason.
- **G8** If the answer for **G5** is "02" or "03", ask the reason.

Section H Information about death cases for the last 5 years (including information about infant and child death)

The information for this section should be obtained in a delicate manner, so that the family members will not be depressed! Surveyors should apologize and tell the family that the given information is very important for the research.

- H0 If the family have had any death cases for the last 5 years, ask the name of the person.
- H1 Age of the person
- H2 Sex of the person.
- H3 Category of cause of the death.
- H4 If they can specify cause of the death, write.
- H5 The death cause in H4 is coded according to ICD 10.
- H6 Ask where the person died.
- **H7** Ask the family's opinion about the possibility of avoiding death if health care service had been better.

Section I Attitude and opinion about Health Facility.

his section is necessary to learn the attitude of the family members to health facilities and background of care seeking behavior.

I1 Ask if the family visits the nearest polyclinic/SVP not to seek care?

- **I2.** If "yes", ask the purpose of visit.
- I3 Ask how often the family has visited the health facility for the last 12 months.
- If the family needs health care service, which criteria do they use to choose health care service?
- I5 Which information sources do they use to select health care service?
- **I6** Which information sources do they access to know that SVP or hospital has started new services?
- I7 Do health personnel visit any family member regularly?
- **I8** Do health personnel visit family members on call?
- I9 Do the family members use services of private doctors or clinics.
- **I10** If "yes", ask the reason.
- **I11** What do the family expect from the health care services? (Top 3)

Section J Knowledge of Health (most often diseases)

This section is necessary to clarify general knowledge of the people about the most common diseases. Surveyors shall get the answers to the questions regarding hypertension and anemia prevention and complications. The interviewees' answers should be written in **J1**, **J2**, **J3**, **J4** accordingly even if they are wrong or absurd. Then surveyors shall evaluate the answers whether it is-"right" or "wrong".

At the end of the interview, surveyors shall ask if the family members have any wishes to improve healthcare services. Then surveyors shall appreciate them for their kind cooperation and remind that it will be used only within the framework of this study.

10.2 Questionnaire for Care Seeking Behavior Survey

Район: Urban-1 Rural-2 Code: Family No	Team Inter- No Viewer
Place Add-ress	Tele- phone
A: GENERAL CHARACTERISTICS OF TH	<u>E FAMILY</u>
A1. How long has this family lived here? ye	A2. How many square meters is this house?
A3. Which type of house does this family live?	1.Separate flat in the brick building 2.Separate flat in the block building 3.Separate flat in the cottage5.Separate brick house 6.Separate mud brick house 7.Other (specify)4.Communal flat5.Separate brick house 7.Other (specify)
A4. Who is the owner of this house?	1.A member of the household3.Other person2.Other relative4.Employer

B: GENERAL CHARACTERISTICS OF FAMILY MEMBERS

01 Manager, supervisor, businessperson

04 Office work (secretary, accountant)

education

05 Sales and services

06 Skilled manual works

08 Agriculture/ farming

09 Stock raising

00 Do not work

07 Unskilled manual works

02 Intellectual or creative worker with higher

03 Specialist with secondary (special) education

08 Brother/ Sister

B8. Marital status

01 Never married

09 Other

02 Married

03 Divorced

04 Widowed

Family mem- ber	Family, name,	patrinomic (first, initi	al of the father)	Relationshi p with the head of household	Gen der	Age	Natio nality	Edu cati on	Level of educati on	Marital status	Work	What has he/she been doing
		B1		B2	B3	B4	B5	B6	B7	B8	B9	B10
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
head of 01 Hea 02 Wife 03s/3d - 04s/04d law 05 Gran 06 Pare	nt	M Male F Female n - B9. Work: What kind	B5. Nationality 01 Uzbek 02 Russian 03 Karakalpak 04 Tadjik 05 Kazakh 06 Tatar 07 Other I of work does he/she		00 No 01 So Liceu 02 P ⁻ educa 03 Te 04 Ur 05 De	chool/G Im FU/SPT ation) echniku niversity egree	l educati imnaziur U (vocat m/ Colle y/ Institut	n/ ional ge	For 0 From For 0 C – C D – D T – E comp	Candidat Doctor of Iducatior	306 – fig (grade) e of scie science n is not	gures ence e
		B9. Work: What kind usually do?	l of work does he/she			egree barding	school		99 –	Educatio	on comp	le

B10. What has he/she been doing for the last 12 months?
O1 Studied (school, institute etc) or worked
O2 Has been looking for job
O3 Has not been doing anything
O4 Couldn't work (disability)
O5 Retired, does not work
O6 Maternity leave
O7 Other

07 Other

C: LIVING STANDARD

C1: Who usually makes decision 01 Head of household 02 Wife/Husband regarding expensive purchase in 03s/03d – Son/ Daughter the family, such as car or house? 04s/04d - Son/ Daughter-in -law

05 Grandchild 06 Parent 07 Parent in law 08 Brother/ Sister 09 Other

C2. Does your family buy	C3. Does your family	01 Radio	04 Mobile
newspapers regularly?	use the following	02 TV	05 Computer
Yes – 01 No - 02	equipment? (please, circle)	03 Phone	06 Internet

C4	Things	C4-a Where does your family usually purchase those things?	C4-b How do you usually get there?	C4-a 01 Here, in this place 02 The nearest town, rayon center
C4-1	Food products			03 Other city (specify) 04 Bukhara/ Samarkand 06 Tashkent
C4-2	Clothes			07 Other (specify) C4-b 01 On foot
C4-3	Pharmaceuticals			02 Bicycle 03 Bus
C4-4	Home electric appliances			 04 Fixed route taxi 05 Taxi 06 Private car, motorcycle 07 Animal drawn cart
				08 Other (specify)

D: CARE SEEKING BEHAVIOR (FOR THE LAST 12 MONTHS)

D1. Health problems (for the last 12 months)

2

Family mem- ber	Trauma, accident	Acute disease	Chronic disease
ber	D1-a	D1-b	D1-c
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

D2-D4.	wieure	arcare	TOT LIN	meanin	proble	non suns	the fast	17 1101	unsj				
Family	Trau	ma, acc	ident		A	cute dise	850			C	nronic d	isease	
mem- ber	Provider	Where was the care provided?	How did you get there?	Satisfaction	Provider	Where was the care provided?	How did you get there?	Satisfaction	Providar		Where was the care provided?	How did you get there?	Satisfaction
	D2-a	D2-b	D2-c	D2-d	D3-a	D3-b	D3-c	D3-d	D4	ģ	D4-b	D4-c	D4-d
D3-a 02	D3-a 02 Traditional healing 06 Oblast health facility/ emergency center 09 Private clinic 12 Other (specify) 03 SVP/ EAP of city policilinic in Navol												
D3-b (D4-b (02 – Home 03 – Work 04 – Outsie	place	vorkplace	D3-c	01 On foot 02 Bicycle 03 Bus 04 Fixed ro		05 Taxi 06 Private o 07 Animal o 08 Other (s 09 Ambular	frawn cart pecify)	rcie	D	4-d 800	Almost yes, ne commen	ts

D2-D4. Medical care for the health problems (for the last 12 months)

D2e-D4e. If the answer for D2-a, D3-a, D4-a is "01- nobody, nowhere", please ask the reason.

Trauma, accident	Acute disease	Chronic disease
D2-e	D3-e	D4-e
	Trauma, accident D2-e	Trauma, accident Acute disease

D2f-D4f. If the answer for D2-d, D3-d, D4-d is "02" or "03", please ask the reason.

Family mem-	Trauma, accident	Acute disease	Chronic disease
nem-	D2-f	D3-f	D4-f
		1 1	

3

D5-D7. Access to medicine

Family	Trauma, ao	cident	Acute disease	•	Chronic disease			
Family mem- ber	Where did you purchase medicine?	How did you get there?	d you re? Where did you purchase get ther medicine?		Where did you purchase medicine?	How did you get there?		
	D5-a	D5-b	D6-a	D6-b	D7-a	D7-b		
	D5-a 01 Provider (sa D6-a 02 Pharmacy			b 01 Provider (same b care) 02 Pharmacy	as 05 Taxi 06 Private car, mo 07 Animal drawn (

D7-a 03 Traditional healer 04 Other (specify)

	UT FIUVIUEI (Saitie as	05
D6-h	care) 02 Pharmacy	06
D0-D	02 Pharmacy	07
D7-b	03 Traditional healer	08
	04 Other (specify)	

Other (specify)

D8-D10. Refer to the Other Health care facilities

Family	Trauma, accident				Acute disease				Chronic disease			;
mem- ber	o ad Otho	Did the health care personnel explain the reason of referral?	Did he/she follow the advice?	Where did he/ she go to seek care?	Who advised you to go to the Other health facility?	Did the health care personnel explain the reason of referral?	Did he/she follow the advice?	Where did he/ she go to seek care?	Who advised you to go to the Other health facility?	Did the health care personnel explain the reason of referral?	Did he/she follow the advice?	Where did he/ she go to seek care?
	D8-a	D8-b	D8-c	D8-d	D9-a	D9-b	D9-c	D9-d	D10-a	D10-b	D10-c	D10-d
D9-a 0. D10-a 0	1 Doctor 2 Feldsher 3 Nurse 4 Family m			edical perso d by himsel specify)	f	D8-b,c D9-b,c D10-b,c	01 Yes 02 No 03 Do r	not know		1	1	
D8-d D9-d D10-d	02 Tr	body, now aditional h /P/ FAP of JB		0 nic 0	6 Oblast h 7 NGMK h	rayon center ealth facility lospital gional hospi	in Navoi	al	11 "03" s	te doctor		

	Doe Diver if the unswers for Doe, Die is ano, pieuse use the reason										
Family	Trauma, accident	Acute disease	Chronic disease								
mem- ber	D8-e	D9-e	D10-e								

D8e-D10e. If the answers for D8c, D9c, D10c is «No», please ask the reason

D8f-D10f. Satisfaction with the care in the other health care facility

D8g-D10g. If the answer for D8f- D10f is "02" or "03", please ask the reason

Family mem- per		rauma, accident				
ber	D8-f	D8-g	D9-f	D9-g	D10-f	D10-g
)8-f 0	1 Yes					
0. f 02	2 Almos 3 No	t yes, but have some comments				(

D9-f 03 No **D10-f** 04 Other (specify)

E: CARE SEEKING IN THE CASES OF CHRONIC DISEASES (MENTIONED IN D1-C)

Family mem- ber	sick?	Where does he/ she receive care at the moment?	How does he/she get there? fa be	d he/ le use fferent ealth re cility efore?	What was the reason of change the health care facility?		please ask the reason			health I″),	
	E1	E2	E3 E	4-a	E4-b			E5			
E1 202 T	VP/FAP 0	where nealing f city policlinic	06 Oblast 07 NGMK 08 Other r	health f hospita egional	acility in Navi I hospital	oi 10	Private clinic Private doctor "03" services	12 Other (spec 13 Didn't chan		E7 01 Prov care) 02 Pha	vider (same as rmacy
E4-b 01 Dissatisfaction with treatment at the previous health care facility 04 Recomme personnel 02 Higher professional level of the medical personnel 05 Recomme relatives 03 More modern medical equipment 05 Recomme relatives				ended by fi	riends,	ends, 02 Almost yes, but have some comments 03 No 04 Other (specify)					ditionál healer er (specify)
Family mem- ber	Does he she currently have medicine (Yes -01, No-02)	does he/ she purchase ? medicine		et sat the car at t			ne answer for I ase ask the rea	E-9a is "02" or " ason.	03″,		Who makes the final decision regarding the treatment?
	E6	E7	E8		E9-a			E9-b			E10
	3 01 On 02 Bic 8 03 Bus 04 Fixe	ycle	07 A	rivate c	ar, motorcycl rawn cart pecify)	le			06 Pa	mself/hers rents of c her (spec	hild

$\underline{\mathsf{F}}: \text{ maternal and child health care receiving (for the last 5 years)}$

F1 Prev	ious pre	gnancy/	F2 Pr	esent	t preg	nan	icy/ F3 – T	⁻h∈	e last o	or pr	esent pregr	nancy	
			Preser	nt preg	nancy	<u> </u>	Т	he	last or	prese	ent pregnancy	/	
Family mem- ber		Second pregnanc in the last 5 years	(if not	ancy 00)	Develo ment o pregna	f ncy	Which healt care facility did she go firstly?		How ma times di visit this health c facility?	id she s are	How does she usually get there?	Reasons for changing the health care facility	Satisfacti on with the care received
	F1-a	F1-b	F2-a	a	F2-b		F3-a		F3-b		F3-c	F3-d	F3-e
								_					
								_					
								_					
F1 01 De	livery of aliv	e baby			F2-b	1 - 00	No pregnancy			F3-c	01 On foot	06 Priv	ate car,
02 Delivery of alive twins 03 Delivery of twins (one-alive, one -died) 04 Medical abortion 05 Miscarriage 06 Stillbirth 07 Stillbirth of twins 01 - Normal development of pregnancy 02 - Some problems of pregnancy 03 - Pregnancy with complications F4-c 02 Bicycle F3-d 01 According the plan 02 Recause of bealth 03 Dissatisfaction with care 04 Other (specific) F3-e 01Yes								motorc 07 Anir e taxi 08 Oth					
01.0 11 11 1					pecify)		are			F3-e F4-e F5-e	02 Almost, but	03 have 04 ts	No Other
14-13-	Which hea		many	How			atisfacti				How many	How does	Satisfacti
Family mem- ber	care facilit did she go secondary	ty times visit	did she his h care	she	e o ially get th		atisfacti Which health n with care facility ne care did she go ceived thirdly?		lity	times did she visit this health care facility?	she usually get there?	on with the care received	
	F4-a		F4-b	F	=4-с		F4-e		F5-a		F5-b	F5-c	F5-e
F3-a F6 F4-a F7 F5-a	-a 02 T 03 S 04 S		ealing ficity polic		06 Ob 07 NG 08 Otl	olast h GMK h her re	rayon center/c ealth facility in ospital gional hospital	ı Na I	avoi		10 Priv 11 "03 12 Oth	vate clinic vate doctor ' services er (specify)	
F	If the	answer	for F3-	e, F4	<u>-e, F5-</u>	-e is	"02" or "03	<i>''</i> ,	please	e ask	the reason		
Family mem- ber	F3-g	for F3-e					F4-g fo	r F	4-e		F5	-g for F5-e	

F6-F7 –	Delivery	for t	he las	t 5 years	(first an	d second)				
Family mem- ber	Where did you give the birth for the first time?	perso atten deliv	onnel ided the ery?	her delivery at that time?	satisfied with the care provided		e personnel attended ti delivery?	Ith Who in your family supported her delivery at that time?	Was she satisfied with the care provided?	Who makes decisions regarding prenatal care and deliveries?
	F6-a		F6-b	F6-c	F6-d	F7-a	F7-b	F7-c	F7-d	F8
F7-b ₀₃	Feldsher att	endan	tional bir nt («enag r (specify	a»)	F7-c 0	1 Mother 0	4 Mother-in-le 5 Brother 6 Other (spec		01 Husband 02 Herself 03 Parents o husband	04 Parents of wife 05 Other (specify) of
F6-d 0 ⁻ F7-d 0 ⁻	1Yes 2 Almost, but ł	nave s	some cor		3 No 1 Other		If the an	swer for F6-e, please ask t		
Family mem- ber	F6-e	for Fé	6-d					F7-e for F7-	d	
G: pro	VIDING N	1EDI		CARE TO C	HILDRI	EN UNDEF	R 6 YEARS	OLD FOR TH	HE LAST 1	2 MONTHS
Family mem- ber	Do you have regular check up for your child? 01- Да 02-Не	the che the prin	o provid regular ck-up fc child at nary hea e facility	does your child have the regular check up?	does your child get there?	Who provides regular check up of the child at home?	How often does your child have the regular check up?	Has your child received the necessary vaccination? 01-Yes, 02-No	Is mother satisfied with care?	Who usually makes decision regarding health care for your children?
	G1		G2-a	G2-b	G2-c	G3-a	G3-b	G4	G5	G6
G3-a 01 02 03 04 05	Nobody Doctor Feldsher Patronage nu Nurse Nurse at ndergarten	rse	G2-b G3-b G2-c	01 Twice a v 02 Once a w 03 Once a m 03 Once a m	veek 05 nonth	Once a quart Other (specif 06 Private ca motorcycle 07 Animal dra	y) r, awn cart	G5 01Yes 02 Almost yes but have some comments 03 No 04 Other		11 Father 12 Mother 13 Parents of father 14 Parents of Mother 15 Parents of child 16 Other (specify)
				04 Fixed rou 05 Taxi	te taxi	08 Other (spe 09 Ambulanc				

Family mem- ber	If the answer for G1 is "01", please ask the reason	If the answer for G5 is "02"or "03", please ask the reason.
11		

H: INFORMATION REGARDING DEATH FOR THE LAST 5 YEARS (INCLUDING INFORMATION REGARDING THE DEADS IN THE LAST YEAR, AND REGARDING

INFANT AND CHILD MORTALITY)

Family mem- ber	First name and initial of the person	Age	Sex M Male F Female	The direct reason of death	Specify the cause of death (if possible)	ICD-10	Where did he/she spend the last moment?	Do you think the death could have been avoided if medical care had been better?		
	HO	H1	H2	H3	H4	H5	H6	H7		
L1										
L2										
L3										
L4										
L5										
L6										
L7										
02 Tra 03 Lo 04 Do	ute disease/symp auma, accident ng disease not know her (specify)	tom	01 02 5a 03 04	 7 00 The death could not be avoided. 01 Medical personnel was not able to help the patient avoid death. 02 If there had been all necessary medical equipment and medicines, medical personnel could have saved the patient. 03 If the qualification of health personnel had been higher, the death could have been avoided. 04 The health personnel could save the patient, but did not want it. 05 Do not know. 						
H6	H6 01 Nobody, nowhere 02 Traditional healing 03 SVP/ FAP of city policlinic 04 SUB 05 Nearest rayon center/city hospital 09 Private clinic 06 Oblast health facility in Navoi 10 Private doctor 11 "03" services 08 Other regional hospital 12 Other (not at home, not at the street, not at the job)									

I: ATTITUDE AND OPINION REGARDING HEALTH CARE FACILITIES

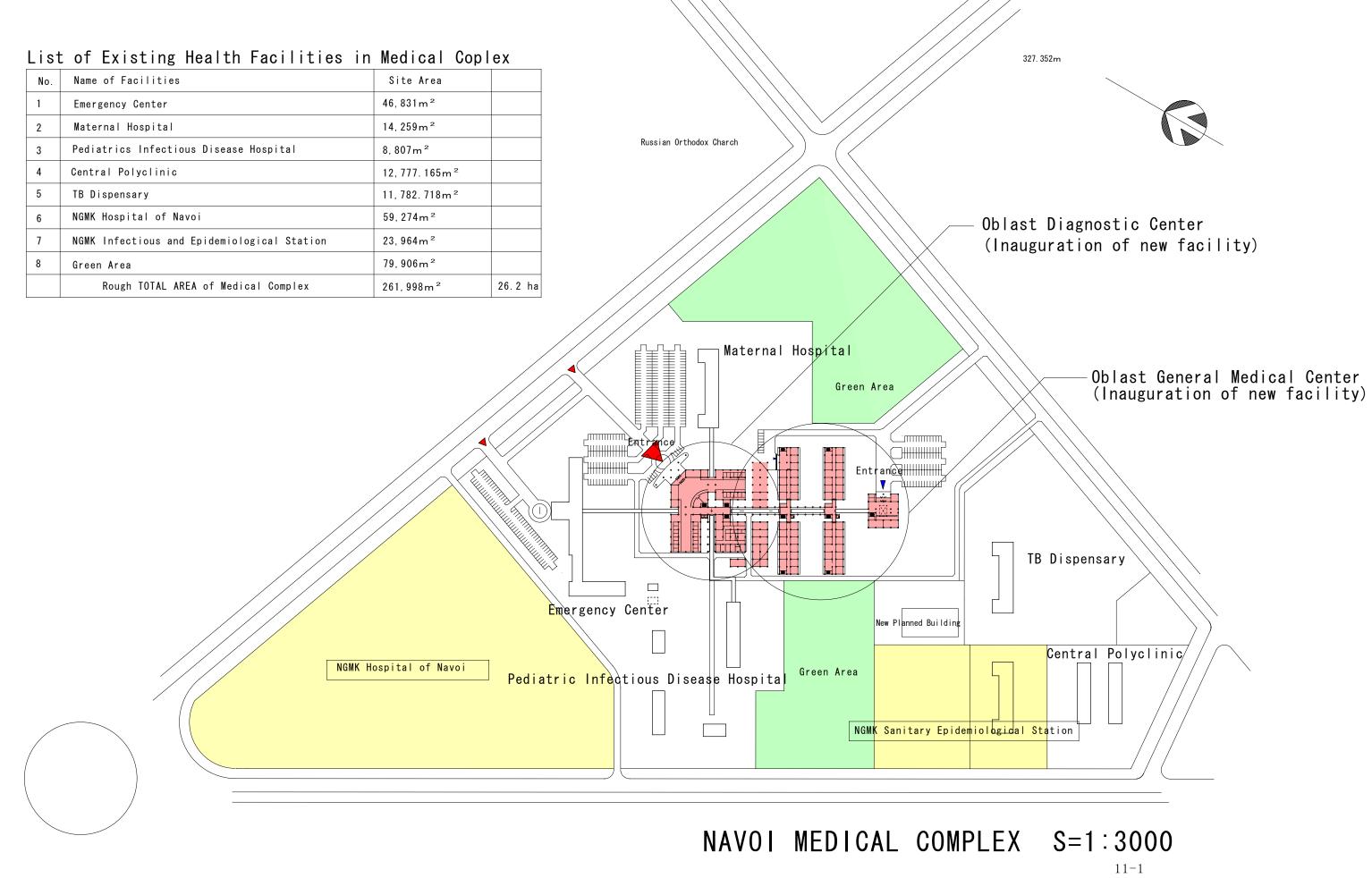
I 1. Do you or your family members visit the nearest policlir treatment of disease or trauma?	nic/SVP not for	Yes – 01	No - 02
I2. If "01 Yes" for I1, what is the purpose of the visit?	01 Health check up03 Docur02 Health promotion04 Other	nent regarding the (specify)	heath status
I3. How often did you and your family member visit the nearest policlinic/SVP for the above purpose for the last 12 months?	00 None 01 Twice a we 02 Once a we	eek 04 Once	e a month e a quarter e a year
I 4. When you need the medical care, which criteria do you use to choose the health care facility? (Top three)	01 Distance 02 Cost 03 Reliability/ safety 04 Qualification of personne	05 Modern equip 06 Other (specify	
I5. When you need the medical care, which criteria do you use to choose the health care facility? (Top three)	01 Family 02 Neight 03 Friend 04 Medica	ors	
I 6. Which information source(s) do you use to choose the health care facility? (Top three)	05 Leaflet 06 Mass r 07 Other (s, posters nedia specify)	
I 7. Does medical personnel visit your family regularly?		Yes – 01	No - 02
I 8. Does medical personnel visit any member of your family on call?		Yes – 01	No - 02
I 9. Do you use private clinics or doctors' services?		Yes – 01	No - 02
I 10. If you use private clinics or doctors' services (answer for I9 is "01"), what is the reason? (Top three)	01 Distance 02 Cost 03 Reliability/ safety 04 Qualification of personnel	05 Modern equipm 06 Attention to the treatment with resp 07 Other (specify)	patient/
I 11. What do you expect from health	01 Distance	05 Modern equipm 06 Attention to the	
service provider? (Top three)	02 Cost 03 Reliability/ safety 04 Qualification of personnel	treatment with resp 07 Other (specify)	
J: KNOWLEDGE REGARDING HEALTH (AB	OUT WIDELY SPREAD (PI	REVALENT) DI	<u>SEASES)</u>
J 1. What will happen if the arterial hypertension is not treated?	Correct - 01 Incorrect - 02		
J 2. What will happen if anemia is not treated?	Correct - 01 Incorrect - 02		
J 3. How to prevent the development of arterial hypertension?	Correct - 01 Incorrect - 02		
Γ			
J 4. How to prevent anemia?	Correct - 01 Incorrect - 02		

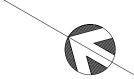
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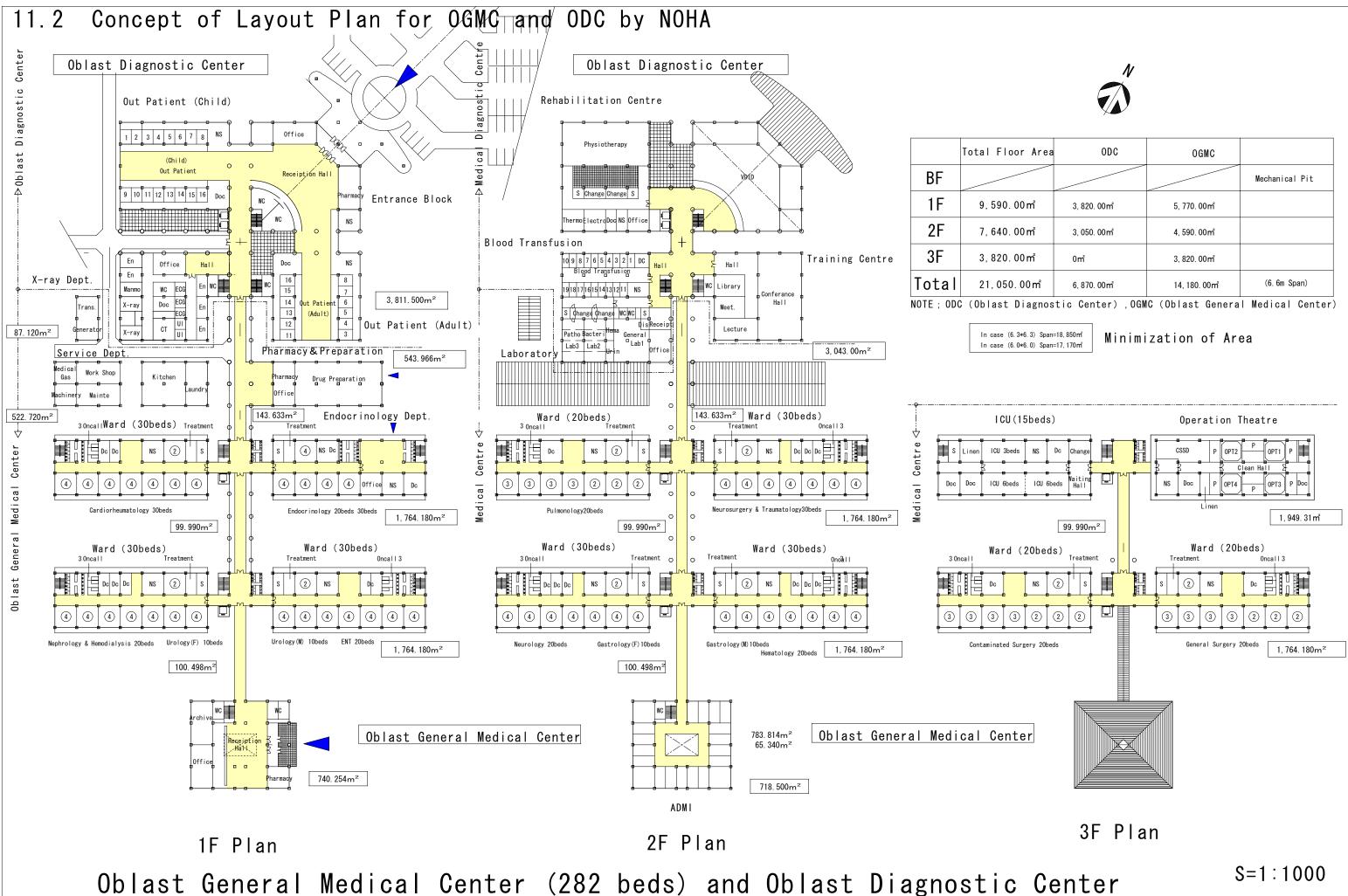
Concept of Navoi Medical Complex, Oblast General Medical Center (OGMC) and Oblast Diagnostic Center (ODC) by NOHA

- 11.1 Navoi Medical Complex
- 11.2 Layout Plan for OGMC and ODC
- 11.3 Equipment Plan for OGMC and ODC
- 11.4 Typical Ward Plan for OGMC

11.1 Concept of Navoi Medical Complex by NOHA









Area	ODC	OGMC	
			Mechanical Pit
n	3, 820. 00m ²	5, 770. 00m [*]	
n	3, 050. 00 m ²	4, 590. 00m ²	
n	0m [*]	3, 820. 00m [*]	
) m	6, 870. 00m [*]	14, 180. 00m [*]	(6.6m Span)
agnos	tic Center) ,OGM	C (Oblast Genera	l Medical Center

11.3 Concept of Equipment Plan for OGMC and ODC by NOHA

10.	Dept Target Diseases	Beds	Therapeutic Equipment / Diagnostic Equipment	Quantity	Remarks
0	General equipment for all dept.		Portable X-ray apparatus	2	
			Ultrasound (portable)	2	
			Patient beds	250	
			Sphygmomanometer & stethoscope	30	
			Suction pump, table top	20	
			Syringe pump	20	
			Infusion pump	20	
			Treatment cart with materials	30	
			Instrument cabinet	30	
			Refrigerator	15	
			Stretcher	15	
			Wheel chair	15	
			Personnel computer	15	
			Other equipment	1	
1	Cardioreumatology	30	Patients monitor	3	
	IHD (Ischemic heart disease)		Defibrillator	1	
	Arrhythmia		Pulse oximeter	3	
	Congestive heart failure		ECG	1	
2	Gastroenterology GI bleeding, Hepatic failure, Co	20	Gastro-fiberscope (diag. & therap	2 0 Us	e ODC equipme
	Gi bleeding, Tiepacie Tallure, Oo	μ	ыур		
3	Pulmonology & Allergology	20	Ventilator	2	
	COPD (Chronic Obstructive Pulmonar	v Disea	Oxygen mask & laryngoscope set	5	
	Pneumonia		Oxygen concentrator	2	
	Ohn maningham failung			^	
	Onr. respiratory failure		Spirometer	() Us	e ODG equipme
	Chr. respiratory failure		Spirometer General X-ray apparatus		
	Unr. respiratory failure		Spirometer General X-ray apparatus Blood gas analyzer	0 Us	e ODC equipme e ODC equipme e ODC equipme
1		20	General X−ray apparatus Blood gas analyzer	0 Us 0 Us	e ODC equipme e ODC equipme
4	Neurology	20	General X-ray apparatus Blood gas analyzer EEG	0 Us 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme
4			General X−ray apparatus Blood gas analyzer	0 Us 0 Us 0 Us	e ODC equipme
	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease		General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus	0 Us 0 Us 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme
_	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai tailure, Cnr.		General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis	0 Us 0 Us 0 Us 0 Us 0 Us 1	e ODC equipme e ODC equipme e ODC equipme
	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease		General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus	0 Us 0 Us 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai tailure, Cnr. Renal failure, Glomerulonenhritis	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis	0 Us 0 Us 0 Us 0 Us 2 1 2	e ODC equipme e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai railure, Chr. Renal failure, Glomerulopenbritis Hematology		General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer	0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us	e ODC equipme e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai tailure, Cnr. Renal failure, Glomerulonenhritis	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer Bone marrow test equipment	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai railure, Chr. Renal failure, Glomerulopenbritis Hematology	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai railure, Chr. Renal failure, Glomerulopenbritis Hematology	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer Bone marrow test equipment Blood coagulation analyzer	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai tailure, Unr. Renal failure, Glomerulonenbritis Hematology Anemia, Leukemia, Hemophilia	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer Bone marrow test equipment Blood coagulation analyzer (PT/APTT)	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme e ODC equipme e ODC equipme
5	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai railure, Chr. Renal failure, Glomerulonenhritis Hematology Anemia, Leukemia, Hemophilia	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer Bone marrow test equipment Blood coagulation analyzer (PT/APTT) Laparoscope (diag. & therap.)	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme
5 6 7	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai tailure, Chr. Renal failure, Glomerulonenbritis Hematology Anemia, Leukemia, Hemophilia General Surgery & Operation Theater GB stone, Lung cancer,	20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Peritoneal dialysis Hematology analyzer Bone marrow test equipment Blood coagulation analyzer (PT/APTT) Laparoscope (diag. & therap.) Ultrasound (general purpose) Broncho-fiberscope (diag. &	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us 0 Us 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme
4 5 6 7 8	Neurology Epilepsy, Post-stroke sequela, Parkinson's disease Nephrology & Hemodialysis Acute renai tailure, Chr. Renal failure, Glomerulonenhritis Hematology Anemia, Leukemia, Hemophilia General Surgery & Operation Theater GB stone, Lung cancer, Diabetic gangrene	20 20 20	General X-ray apparatus Blood gas analyzer EEG CT Hemodialysis apparatus Water system for hemodialysis Peritoneal dialysis Hematology analyzer Bone marrow test equipment Blood coagulation analyzer (PT/APTT) Laparoscope (diag. & therap.) Ultrasound (general purpose) Broncho-fiberscope (diag. & therap.)	0 Us 0 Us 0 Us 0 Us 0 Us 1 2 1 2 0 Us 0 Us 0 Us 0 Us 0 Us 0 Us 0 Us	e ODC equipme e ODC equipme

Equipment List of Oblast General Medical Center (OGMC) [1/3]

	Dept	Target Diseases	Beds	Therapeutic Equipment / Diagnostic Equipment	Quantity	Remarks
9	ENT		20	Otoryno-laryngoscope	2	1
		Tonsillitis, Sinusitis, Laryngea	l canc			
10	Urolo	ogy	20	X-ray apparatus (Pyelogram)	0 (Jse ODC equipmen
		Kidney stone, Complicated		Cystoscope (diag. & therap.)	0 (Jse ODC equipmen
		UTI (urinary tract infection), Bladder cancer		Urine culture (bacteriology lab)	0 เ	Jse ODC equipmen
11		matology- neurosurgery	30	Traction bed	15	1
		Head injury, Spinal injury, Brain tumor		СТ		Jse Emergency Cer equipment
12	ICU		15	ICU beds	15	
		Acute respiratory failure,		Ventilator	2	
		Shock, Septicemia		Patient monitor	3	
				Defibrillator	1	
				Pulse oximeter	2	
				Other related equipment	1	
				Blood gas analyzer	0 (Jse ODC equipmen
				Blood culture (bacteriology lab)	0 (Jse ODC equipmen
13	Reha	bilitation	0	Exercise machine for rehabilitation	2	
		Post-stroke paresis, Post- trauma, Neuromuscular		Electrical therapy unit	4	
		disaasa		Traction unit	2	
				Other related equipment	1	
				EMG & evoked potential	0 เ	Jse ODC equipmen
14	Lisie	on Psychiatry	0			
17			0 <i>-soma</i>	tic disease, Alcohol withdrawal		
		<i>Psychological stress, Psycho</i> italist	- <i>soma</i>			
		<i>Psychological stress, Psycho</i> italist	- <i>soma</i>	tic disease, Alcohol withdrawal vorkup, Coma workup, Control of diabete	es, ANA p	ositive patients
15	Hosp	<i>Psychological stress, Psycho</i> italist	- <i>soma</i>		es, ANA pa	ositive patients
15	Hosp	<i>Psychological stress, Psycho</i> italist <i>Perioperative management, F</i>	-soma 0 ever w	vorkup, Coma workup, Control of diabete		ositive patients
15	Hosp	<i>Psychological stress, Psycho</i> italist <i>Perioperative management, F</i> ration Theatre	-soma 0 ever w	<i>vorkup, Coma workup, Control of diabete</i> Electro surgical unit	4	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	<i>vorkup, Coma workup, Control of diabete</i> Electro surgical unit Anesthesia machine Patient monitor	4	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	<i>vorkup, Coma workup, Control of diabete</i> Electro surgical unit Anesthesia machine	4 4 4	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	<i>vorkup, Coma workup, Control of diabete</i> Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose	4 4 4	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	<i>Yorkup, Coma workup, Control of diabete</i> Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic	4 4 3 1	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabete Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light	4 4 3 1	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabete Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system	4 4 3 1	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabete Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit	4 4 3 1 4 4 1	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabeted Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set Surgical microscope for ENT	4 4 3 1 4 4 1 8 1	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabete Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set	4 4 3 1 4 4 1 8 1	ositive patients
15	Hosp	Psychological stress, Psycho italist Perioperative management, F ration Theatre General surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabeted Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set Surgical microscope for ENT Surgical microscope for Neurosurge	4 4 3 1 4 4 1 8 1 1	ositive patients
15	Hosp	Psychological stress, Psycho bitalist Perioperative management, F ration Theatre General surgery Contaminated Surgery	-soma 0 ever w	Vorkup, Coma workup, Control of diabeted Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set Surgical microscope for ENT Surgical microscope for Neurosurge Oxygen mask & laryngoscope set	4 4 3 1 4 4 1 8 1 1 4 1 1 4 1 2	ositive patients
15	Hosp Oper	Psychological stress, Psycho bitalist Perioperative management, F ration Theatre General surgery Contaminated Surgery	-soma 0 ever w 0	Vorkup, Coma workup, Control of diabeted Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set Surgical microscope for ENT Surgical microscope for Neurosurge Oxygen mask & laryngoscope set Other related equipment Steam sterilizer (Autoclave)	4 4 3 1 4 4 1 8 1 1 4 1	ositive patients
15	Hosp Oper	Psychological stress, Psycho bitalist Perioperative management, F ration Theatre General surgery Contaminated Surgery	-soma 0 ever w 0	Vorkup, Coma workup, Control of diabeted Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set Surgical microscope for ENT Surgical microscope for Neurosurge Oxygen mask & laryngoscope set Other related equipment Steam sterilizer (Autoclave) Hot air sterilizer Stainless steel materials	4 4 3 1 4 4 1 8 1 1 4 1 1 4 1 2	ositive patients
15	Hosp Oper	Psychological stress, Psycho bitalist Perioperative management, F ration Theatre General surgery Contaminated Surgery	-soma 0 ever w 0	Vorkup, Coma workup, Control of diabeted Electro surgical unit Anesthesia machine Patient monitor Operating table, general propose Operating table, orthopedic Operating light Suction unit Laparoscopy system Surgical instrument set Surgical microscope for ENT Surgical microscope for Neurosurge Oxygen mask & laryngoscope set Other related equipment Steam sterilizer (Autoclave) Hot air sterilizer	4 4 3 1 4 4 1 8 1 1 4 1 2 2	ositive patients

No Dont To	rest Dissage	Pada	Therapeutic Equipment /	Quantity	Domorko
-	rget Diseases	Beds	Diagnostic Equipment	Quantity	Remarks
19 Kitchen		0	Kitchen equipment	1	
			Refrigerator	3	
			Freezer	1	
			Meal cart & dishes	4	
			Other related equipment	1	
20 Maintenance	center & medical g	0	Maintenance center equipment	1	
			Medical gas equipment	1	
			Personnel computer	2	
21 Administratio	'n	0	Personal computer	4	
			Printer & copy	1	
			Storage cabinet	10	
			General furniture	1	
			Other related equipment	1	
22 Reception &	medical record	0	Personnel computer	1	
			Printer & copy	1	
			Shelves	30	
23 Pharmacy		0	Electronic balance	1	
		Refrigerator	2		
			Freezer	1	
			Tablet conter	1	
			Packing machine for powder media	cir 1	
			Medicine cabinet	5	
			Safety box for narcotics	1	
			Shelves	30	
			Cabinet for perscription	3	
24 Drug prepara	tion for	0	Steam sterilizer (Autoclave)	2	
injections and	d infusions		Refrigerator	2	
			Bottle washer	1	
			Hot air sterilizer	2	
			Shelves	20	
			Electronic balance	1	
			Vial filling machine	1	
			Medicine cabinet	2	
25 Institute of B	lood Transfusion	0	Balance	1	
			Blood bank refrigerator	2	
			Bed for blood donor	20	
			Centrifuge for blood bag	1	
			Plasma separator material	1	
			Sphygmomanomater set	5	
<u> </u>		20	Related equipment	1	
26 Endocrinology	y Disperioury	20		•	

Equipment List of Oblast General Medical Center (OGMC) [3/3]

	_	·· · - ·	Qua	ntity
No.	Department	Major Equipment	Plan A: Full Q'ty	Plan B: Minimum Q'ty
1	Radiology/	CT scanner	1	C
	Imaging diagnostics	Fluoroscopy apparatus	1	1
		General X-ray apparatus	1	1
		Mammography apparatus	1	C
		Film processor	1	1
		Ultrasound apparatus (Color doppler)	1	1
		Ultrasound apparatus (B/W)	1	C
		Other related materials & equipment	1	C
2	Physiological	ECG	2	C
	examination	ECG ergometer/tradmil test	1	1
		EEG	1	1
		Spirometer	1	1
		Audiometer	1	1
		EMG & evoked potential		1
		Other related materials & equipment		I
3	Endoscopy	Gastroduodeno-fiberscope	1	1
		Colono-fiberscope		1
		Rectoscope		1
				1
		Cystoscope		1
		Broncho-fiberscope Bronchoscope, rigid	1	1
		Endoscope TV system	2	2
		Other related materials & equipment	1	1
4	Laboratory			
	General purpose	Table top centrifuge	2	C
		Medical refrigerator	3	C
		Freezer	1	C
		Analytical balance	1	C
		Water bath	2	(
	Hematology	Hematology analyzer	1	1
		Blood coagulation analyzer	1	1
		Bone marrow test materials	1	(
	Biochemistry	Microscope Biochemical analyzer, semi-auto	3) (
	Broomonioury	Spectrophotometer	1	C
		Blood gas/electrolyte analyzer	1	C
	Immuno-serology	Immunology analyzer	1	<u>-</u> 1
	initiality contrology	Laboratory incubator	1	C
	Urine & feces	Microscope	2	C
		Laboratory autoclave	2	
		Laboratory incubator	2	
		Hot air sterilizer	2	
		CO2 incubator	1	1
		Microscope	2	2
		Clean bench	2	

Equipment List of Oblast Diagnostic Center (ODC) [1/2]

				Quantity		
No.	Department	Major Equipment	Plan A: Full Q'ty	Plan B: Minimum Q'ty		
	Histopathology	Tissue processor	1	1		
		Microtome	1	1		
		Microscope	2	2		
		Other related equipment for all lab.	1	1		
5	Outpatient /	Diagnostic set (Otoryno-laryngoscope)	10	10		
	Polyclinic	X-ray film illuminator	10	10		
		Examination table	10	10		
		Examination light	10	10		
		ENT treatment chair unit	2	2		
6	Others					
	Castian	Equipment for maintenance workshop	1	1		
	_	Personnel computer	2	2		
	Reception &	Personnel computer	3	3		
	medical record	Printer	3	3		
		Copy machine	1	1		
		Shelves	10	10		

Equipment List of Oblast Diagnostic Center (ODC) [2/2]

11.4 Typical Ward Plan for OGMC



Typical Ward Plan (6.0m \times 6.0m) for OGMC 1,311.113m²

(In case 6.6m \times 6.6m Span, Ward area is 1,764.180m²)

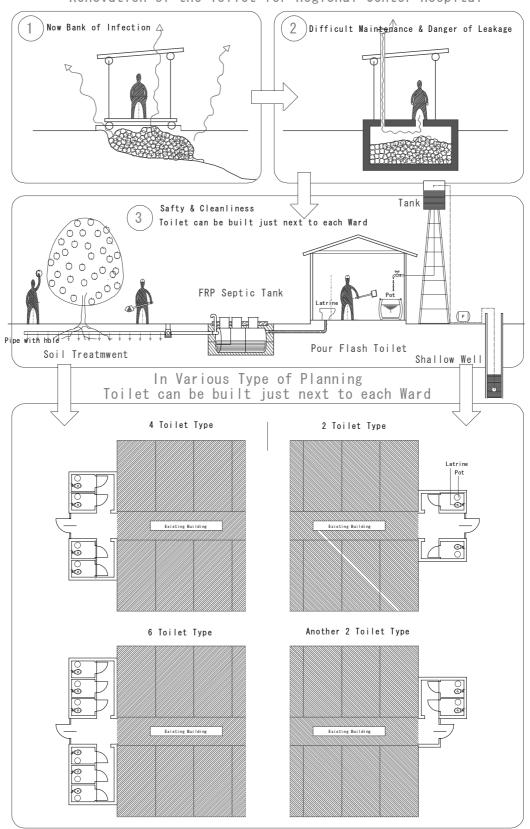
12. Detailed Plan of Activity 4.2 "Procurement of Medical Equipment for RCHs"

		Quantity (Total)							
Department	Equipment		Tomdi	Karmana	Navbakhor	Nurata	Khatirchi	Kizirtepa	Kanimekh
Radiology/	Fluoroscopy apparatus	1	1	1	1	1	1	1	1
Imaging	General X-ray apparatus	1	1	1	1	1	1	1	1
	Mammography apparatus	1	1	1	1	1	1	1	1
	Film processor	1	1	1	1	1	1	1	1
	Ultrasound apparatus (B/W, general purpose) Ultrasound apparatus	1	1	1	1	1	1	1	1
	(portable)	1	1	1	1	1	1	1	1
Functional	ECG	2	1						
diagnostic	Spirometer	1	1						
	Gastroduodeno-fiberscope		1	1	1	1	1	1	1
	Colono-fiberscope		1	1	1	1	1	1	1
	Laparoscope		1	1	1	1	1	1	1
	Cystoscope	1	1	1	1	1	1	1	1
	Broncho-fiberscope	1	1	1	1	1	1	1	1
Therapeutic	Patient monitor	2	2	2	2	2	2	2	2
equipment	Pulse oximeter	2	2	2	2	2	2	2	2
	Ventilator (adult)	2	2	1	1	1	1	1	1
	Ventilator (infant)	2	2	1	1	1	1	1	1
	Syringe pump/Infusion pump	4	2						
	Infant incubator	2	1						
	Infant wamer	2	1						
Operation theater	Electro surgical unit	2	1						
Operation theater	Anesthesia machine	2	1						
	Patient monitor	2	1						
	Operating table	2	1						
	Operating light	2	1						
	Suction unit	2	1						
	Surgical instrument set	4	4						

12 Detailed Plan of Activity 4.2 "Procurement of Medical Equipment for RCHs"

13. Proposed System of FRP (Fiberglass Reinforced Plastic)Septic Tank for Improvement of the Toilets

- 13. Proposed System of FRP (Fiberglass Reinforced Plastic) Septic Tank for Improvement of the Toilets
- 13-1 New concept of the improved toilets with FRP Septic Tank



Renovation of the Toilet for Regional Center Hospital

Figure 1. Proposed System of Latrine Toilets with FRP Septic Tank

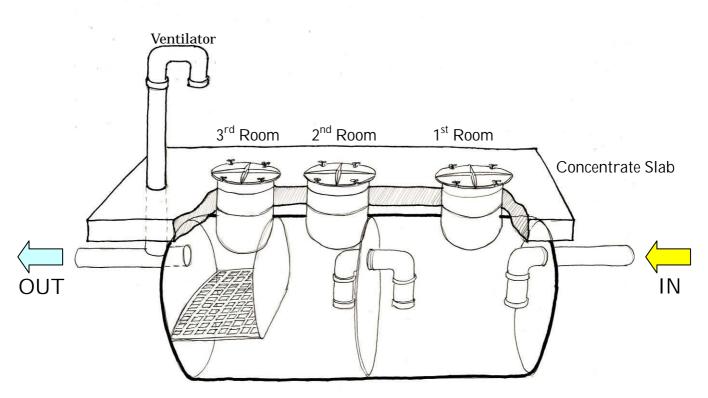


Figure 2. Structure of FRP Septic Tank

13-3 Function of Rooms on FRP Septic Tank

1 st Room:	To consume black water by Anti-aerobic bacteria.
	To separate Scam up (light materials) and Sludge down (heavy materials).
	To send treated water to 2 nd Room.

- 2nd Room: To consume black water by Anti-aerobic bacteria, again. To up-flow-out treated water to 3rd Room.
- 3rd Room: To filter treated black water by coral-rock-filter. To send treated water to Main-pipe-line.
- 13-4 Preparation of Environmental Burden Reduction Enzyme for FRP Septic Tank [Ingredients]
 - 1) Natto-kinase 3 g
 - 2) Dry-yeast 4 Kg
 - 3) Yogurt 50 Liter
 - 4) Sugar 50 kg
 - 5) Water 900 Liter

Note: The ingredients are developed by The Industrial Institute of Ehime Prefecture in Japan.

After mixing above ingredients well in mixer or bottle, incubate in tank with around 40°C in one week. While incubating, cap should be kept loose, unless produced gas would explode when someone open this cap and loose enzyme liquid. After incubating, dilute with water $2 \sim 10$ times and bottling in 500ml or 1,000ml bottle deliver to each house. So 1 ton ingredients will be 2 ton \sim 10 ton Enzyme, it's enough for 340 households in 2 months. Daily usage volume of Environmental Burden Reduction Enzyme will be 100ml, monthly 3,000ml (3 liter). 340 households x 3 liter =1 ton. Cost of ingredients is less than 400 USD for 2 months. The Enzyme will activate treatment process and clean pipes and tanks with no harm for environment. Also it will help plantation growth.

13-1 Routine Maintenance by the User

- 1) To check water-flow from toilet bowl well or not
- 2) To check smell from ventilator stand nearby septic tank
- 3) To pour 100ml of Environmental Burden Reduction Enzyme into toilet once a week
- 4) To check manhole of No. 3 Room of septic tank whether scum come or not

Report on Workshops on Issues and Strategy

14. Reports on Workshops on Issues and Strategy

Table of Contents

- 1 Introduction
- 2 Workshop 1: Issues, Problem Analysis and Objective Analysis
- 3 Workshop 2: Strategies to Achieve the Objectives
- 4 Workshop 3: Basic Strategy

Attachments

Attachment 1:	List of Participants in Workshops in Navoi
Attachment 2:	List of Participants in Workshop in Tashkent
Attachment 3:	Categorized Problem Cards
Attachment 4:	Problem Tree
Attachment 5:	Objective Tree

1 Introduction

In Field Mission 3, participatory workshops were held to analyze the issues identified and to establish strategy on improving health care services in Navoi Oblast. The series of workshops were organized under the principle and conceptual flow shown below.

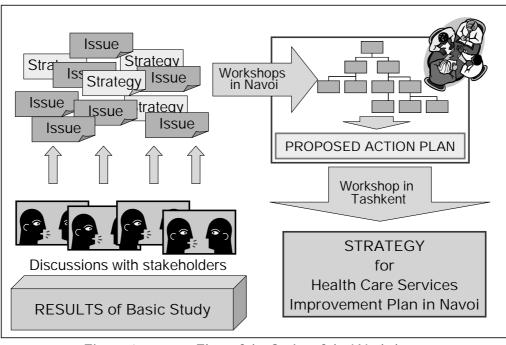


Figure 1: Flow of the Series of the Workshops

Principles of the participatory workshop

- Follow the facilitator's instruction.
- Every participant has equal opportunity to speak his/her opinion.
- Every opinion is important and worth to be considered.
- Listen to the person speaking till the end; do not interrupt him/her.
 (However, the facilitator can ask the participants to finish some irrelevant/ too long/inappropriate speech.)
- Do not search the owner of the opinion.
- Do not hesitate to tell the objection.
- Do not get angry when your opinion is objected.
- Do not look down the other participants even if his/her opinion is based on wrong perception.
- If the discussion could take long time to reach the consensus, the facilitator leaves that topic to be discussed later to cool the participants down.

Table 1 shows the outline of workshops held during August 18 to September 4, 2007. Workshop-0, 1 and 2 were held in Navoi, and workshop-3, in Tashkent. Total 24 members participated in workshops in Navoi, and 28, in Tashkent. List of participants are shown in Attachment 1 and 2.

	Purpose	Date	Place	Participants	(No.)
Workshop 0	 To understand method used in workshops To share idea of workshop principle 	09:00 – 12:00, 18-Aug 2007	Navoi	Selected personnel of NOHA and oblast health facilities	(10)
Workshop 1	 To identify issues and constraints To establish rough framework of action plans 	09:00 – 17:00, 20-Aug 2007	Navoi	Personnel of NOHA and health facilities concerned to the Study	(24)
Workshop 2	- To establish sector strategy	14:00 – 17:00, 22-Aug 2007	Navoi	(same)	(24)
Workshop 3	 To share the outputs of the workshops in Navoi To discuss on the basic strategy 	10:00 – 16:00, 04-Sep 2007	Tashkent	Personnel of MOH concerned to the Study	(28)

Table 1: Outline of the Workshops

Based on the results of basic study, the Study Team had preliminary discussions with the stakeholders, and picked the current issues in the oblast health sector. Each issue was written on one card in Russian to be discussed by the participants in the workshops.

At workshop-0 held on 18-Aug, 2007, the method to be used in workshop was explained using the guideline and selected cards of issues prepared by the Study Team, and the idea on workshop principle was shared by the core members of NOHA and the Study Team. Although it was a trial, the participants had active discussion.

	Time		Item	In charge		
-	9:00 – 9:05	1.	Opening remark	NOHA ¹		
	9:05 – 9:20	2.	Ice breaking	JST ²		
	9:20 – 10:00	3.	Explanation about the workshop method and principles	JST ²		
	10:00 - 11:00	4.	Exercises of KJ method ³ , problem analysis, and objective analysis	JST ² /Participants		
	11:00 – 11:15		Tea break	-		
	11:15 – 11:45	5.	Exercises of action planning	JST ² /Participants		
	11:45 – 12:00	6.	Feedback and closing remark	JST ² / NOHA ¹		

Table 2:	Program	of Workshop-0
	- 3	

Note: 1. NOHA= Navoi Oblast Health Administration; 2. JST= JICA Study Team 3. KJ method= Participatory method to categorize issues or ideas

Based on the feedbacks of participants in the workshop-0, the Study Team finalized the guideline and detail program of workshops 1 to 3, in order to make the following workshops most effective.



Figure 2: Active Participation in the Workshops

2 Workshop 1: Issues, Problem Analysis and Objective Analysis

The workshop-1 was conducted on 20 August 2007 with 24 participants from NOHA, oblast health facilities and some rayon central hospitals. Detailed program is presented in Table 3.

Time		Item		In charge
9:00 - 9:05	1.	Opening remark		NOHA
9:05 – 9:20	2.	Ice breaking	Ice breaking	
9:20 – 10:00	2.	Explanation about th	ne workshop method and principles	JST
10:00 - 10:30		Tea break		-
10:30 – 13:00	3.	Problem analysis		JST/ Participants
13:00 – 14:00		Lunch break		-
14:00 – 17:00	4.	Objective analysis		
		14:00 - 14:30	Guidance and forming small groups	JST
		14:15 – 15:30	Group work	Participants
		15:30 – 17:00	Presentation	JST/ Participants

Table 3: Program of Workshop-1	
--------------------------------	--

Note: NOHA=Navoi Oblast Health Administration; JST=JICA Study Team

In the session of problem analysis, the participants categorized many issues or problems using the issue cards prepared by the Study Team. The categorized cards in the session is shown in Attachment 3. They categorized many issues or problems in "system, because some existing systems are not appropriate to actual situation in Navoi. For example, Health resources such as vehicle and fuel and

personnel are distributed according to the coverage population. However, in low population density areas, health personnel have to move much longer distance, and they need more fuel and time to carry out their duty than standard population density areas.

Then, they discussed logical linkage among the cards to create problem tree as shown in Attachment 4-1 and 4-2. Although some linkages between cause and problem in the problem tree shown in the Attachment do not seem to be logical or reasonable, these are the relationships agreed by the participants who understands the actual situations.

The participants had clear and logical ideas what they should do step by step when they discussed the objective tree as shown in Attachement 5-1 and 5-2. The participants found there are six approaches to improve the health care services in Navoi Oblast as summarized in Figure 3. "Tree 1" mainly focuses on the quality of treatment considering non-communicable diseases which will increase in Navoi Oblast near future, while "Tree 2" focuses on rather physical conditions such as facility or equipment.

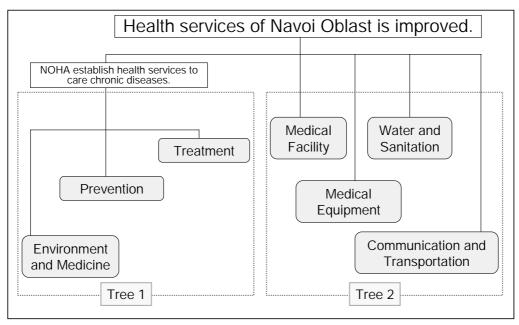


Figure 3: Summary of Objective Tree

Some participants tended to think if they have a general hospital, most of the problems could be solved or improved. On the other hand, some thought they need to improve the quality of medical services to correspond changing health needs. Most of the participants stated that they should start actions which they can do within their resources and then, expand the improvement to large scale activity.

The contents of the improvement activities for each branch of the objective tree were discussed in six small groups as shown in Attachment 5.

Finally, the participants proposed the following activities to improve health care services in Navoi Oblast. (Table 4).

_	Table 4: Proposed Activities			
Group	Category and contents of the proposed activity			
Group-1	Health Facility (Oblast General Hospital)			
	 Establish and Operate Oblast General Hospital 			
	 Improve Quality of Medical Services in Oblast General Hospital 			
	- Improve Patient Satisfaction			
Group-2	Medical equipment			
	 Improve Use and Maintenance Skills 			
	 Establish Regular and Integrated Maintenance System 			
	 Ensure Financial Source for Equipment 			
Group-3	Sanitation, Transportation and Communication			
	 Improve Sanitary Condition in Health Facility 			
	 Provide Appropriate Transportation Measures 			
	- Provide Communication Tools			
Group-4	Medical services to prevent death by NCD			
	 Ensure Qualified Human Resources in Health Facility 			
	 Enhance Interaction among Health Service Providers 			
	 Improve Diagnostics and Treatment 			
Group-5	Prevention (focusing on NCD)			
	 Generate Additional Income in Health Facilities 			
	 Improve Access to New Knowledge 			
	 Update Patronage System 			
	 Organize Campaign on NCD Prevention and Health Promotion 			
Group-6	Medicines			
	Improve Access to Drug in Remote Areas			

3 Workshop 2: Strategies to Achieve the Objectives

The workshop-2 was conducted on 22 August 2007 with almost same 24 participants from NOHA, oblast health facilities and some rayon central hospitals. Detailed program of the workshop-2 is presented in Table 5.

Time			Item	In charge	
14:00 - 13:05	1.	Opening remark		NOHA	
14:05 – 14:20	2.	Review of the cor	nclusion of the work shop 1	JST/NOHA	
14:20 – 16:00	3.	Group work			
		14:20 – 14:30	Guidance and forming small groups	JST	
		14:30 – 16:00	Group Work	Participants	
		16:00 – 17:00	General discussion	JST/ Participants	
17:00 – 17:20	4.	Conclusion		JST	

Table 5: Program of Workshop-2	Table 5:	Program	of Wor	kshop-2
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Note: NOHA=Navoi Oblast Health Administration; JST=JICA Study Team

In the workshop-2, the participants discussed to propose detailed action plan considering the following points.

- To prioritize the activities suggested in the workshop-1 and its reason

- To breakdown the steps to achieve the goal and those schedule
- To maximum use of their existing resources (financial, human, hardware, etc.)
- To identify "who is responsible to initiate and implement" the particular activity
- To identify how they can evaluate the achievement of the activities

Finally, each group prepared seven proposed action plans as shown in Table 6 to 11. Because of the time constraint, some items require more detailed discussion to prepare the practical implementation program. However, they considered the above points, especially to maximize the existing resources. Also they were aware the importance of software. For example, they could utilize the existing hardware if health personnel use properly and maintenance system is enhanced. And even if they have a general hospital, they could not provide better services without improving the quality of health and medical services.

	roposed in Workshop-2 (1/6)				
Group No. 1 Goal					
	I hospital to satisfy the population requ	uirements in health			
care services and providing serv		1			
Activity	Responsible	Time Frame			
1. To get approval of the main stakeholders or		First quarter of			
technical circumstances and architectural plan of		2008			
the requirements	Navoi Oblast telecommunication				
	department, NGMK (Mining				
	company municipal services),				
	ObIPES (Oblast Power Station),				
	OES (Oblast Heating Station)				
2. To order the project design and identify cos		First quarter of			
sheet for the general hospital construction	agency, the nation agency	2008			
	UzTibLoiha (National Medical				
	Project Agency)				
3. To find funds for construction, hard and sof inventory		Third quarter of 2008			
4. To justify funds for the further finance and		First quarter of			
maintenance of the regional hospital	Regional finance department	2009			
5. Train medical providers such specialists as: CT	NOHA, MOH, Medical Advanced	Second to Forth			
specialist, Micro-surgeon, Cardio surgeon,	school	quarter of 2008			
Plastic surgeon (maxillofacial), TB surgeon and					
etc.					
5.1. Re-train medical providers such specialists as:					
Neurosurgeon, Vascular surgeon,					
Endocrinologist, Oncology surgeon,					
Cardiologist, Gastroenterologist, Endoscope					
specialist, Pulmonologist6. To provide complete health care services to	The object general begnital	Eirct quarter of			
	The oblast general hospital	First quarter of 2009			
patients (planned and emergency) Resources		2009			
Construction – 5 billion sum, equipment – 7 billion s	sum construction materials human res	ourcos			
Evaluation		Juices			
1. Decrease the rates of chronic diseases amor	a population				
2. Increasing the life expectancy of the people					
3. Increasing the average life expectancy of po					
4. Improving the rehabilitation of the patients					
5. Decreasing death rates among elderly peopl					
 Improving the general health status of population 					
 Improving planned treatment of patients 					
8. Improving of the providing emergency care services					
9. Decreasing work load of emergency care center and increasing the quality of care					
10. Provision of complete and quality care for patients					
11. Survey of the patient satisfaction by provided care (questionnaires)					
12. Improving the conditions for					
13. To arrange meetings with people in communities					
14. Evaluation reports can be done monthly, quarterly.					
Other Remarks					
It is impossible to meet needs of patients and their					
general hospital. Oblast General Hospital staff can	accept young required specialists and	arrange some pos			
graduate training courses.					

Table 6: Action Plan Proposed in Workshop-2 (1/6)

Gr	Group No. 2 Goal:					
	To create the proper utilization system of medical equipment maintenance					
		Activity	Responsible	Time Frame		
1.	NOHA (Inclue (Department of	nanently working technical team under the order of ding: the representative of NOHA, "Medservice" of Equipment Acquisition), "Medtechnika" Equipment Maintenance in the oblast),	NOHA	September 2007		
2.		chnical personnel on technical service and improve ment maintenance	"Medservice", "Medtechnika"	September 2007 to February 2008		
3.	To train the maintenance	medical personnel on skills of equipment correct	The chief doctor of the health care facility, "Medservice", "Medtechnika"	September 2007 to February 2008		
4.		each health care facility permanently acting n the defining the condition and the work load of the	Chief doctor of Health Facilities	September 2007		
5.		racts with Equipment Acquisition and Maintenance for regular maintenance (repairing) of the equipment spare parts	Chief doctor of Health Facilities	September 2007		
Re	sources					
_	0	sponsors funds, part of fee services resources.				
Evaluation						
 Analysis of work, work load of the medical equipment, the continuous use of medical equipment (without frequent break) 						
-	- Long-term use of the equipment					
-	- Improving of the diagnostics and treatment					
	Other Remarks					
	Group said "We have 3 problems and we have decided that we can't solve these problems without					
est	establishing the special system for equipment exploitation"					

	oosed in vvorksnop-2 (3/6)					
Group No. 3(1) Goal To prevent infectious disease episodes among the population and hospital infections.						
Activity	Responsible	Time Frame				
1. Establish working groups for monitoring of health facilities' current condition	RCHs, NOHA	6 months				
2. Finance HF that need repair and have poor sanitary condition Bepartment, Sanitary Epidemiology Station		1 year				
 Determine the expenses of activities, get approval of stakeholders. RCHs, NOHA, Oblast Finance Department, 		1 year				
4. Evaluate the sewage system condition	RCHs, SES					
Resources						
Working group, NOHA statistics, reference documentat Evaluation	ion concerning vehicles, funds, special	lists.				
 % of infection diseases rate is decreasing, monthly, quarterly and annually evaluation. Evaluate satisfaction of patients with health services, survey can be done in makhalla committees (community authority). Evaluate improvement of working conditions of health providers 						
Other Remarks	·					
One of the prior and actual directions of NOHA is infec	tious and hospital diseases prevention					
Group No. 3(2) Goal						
Repair not operating transportation		T : F				
Activity	Responsible	Time Frame				
1. To assess the operational status of current transpor	tations RCHs, finance 1 accountant, chief garage.	I-2 years				
 Purchasing and disseminating transportation me take into account the territory of the areas a number of population. 	ans, to NOHA,RCH, Oblast 1	1-3 years				
 Sponsors and organs of finance will fund purch new transportation means and their spare parts. 	nase of NOHA,RCH, Oblast 3 Finance Department	3 year				
 Issue the order on arranging steering committee, will identify the operational status of transportations in oblast. 	which RCH 1	l quarter				
 Make request letter to MH according to the res steering committee work on transportations needs. 	0	l month				
 Resources steering committee, statistical data from engineering (concerning transportation means), finance, specialists Evaluation Population's complains concerning visits at how Indentify the satisfaction level of population makhalla committees (community authority). Evaluation of health care providers' work cond Other Remarks Nowadays warranty period of transportations is To find the ways of maintenance of transportation transportation means. 	me will reduce. with provided health care survey of ition improvement s spared; in addition many vehicles are	can be done in				

Table 8: Action Plan Proposed in Workshop-2 (3/6)

Grou	p No. 4 Goal						
	Improve quality of medical care services provided to community of Navoi oblast						
	Activity	Responsible	Time Frame				
1.	Ensuring with qualified human resources in health facilities:						
1.1.	To encourage young people to have medical education based on grant, to make benefits for students from remote areas.	MOH, MOE, oblast government	2008-2015y				
1.2.	To motivate young specialists to work in remote areas by financial incentives.	Ministry, MOH, MOE, Justice, Finance, oblast government.	2008-2010y				
1.3.	To increase qualification of young specialists abroad.	MOH, NOHA, oblast government	2008-2010y				
1.4.	Increasing qualification of oblast medical providers regularly: Ensure internet connection	MOH, NOHA, oblast government, oblast health facilities	2008 Regularly				
1.4.2.	Ensure libraries with new literature						
2.	Strengthening of diagnosis and treatment process:	MOH, NOHA, Finance, oblast government	2008				
2.1.	Develop standards based on EBM to diagnose and treat the patients with chronic diseases	МОН	2008				
2.2.	Provide Health facilities with modern diagnostic and treatment equipment	MOH, NOHA, Finance, oblast government					
2.3	Provide acute and emergency care departments with ambulance and reanimation vehicles taking into consideration the territory size and relief.	MOH, NOHA, Finance, oblast government	2008				
3.	Strengthen the interaction of Health facilities between each other.	2008					
Reso							
	sors, local governors, doctors and nurses associations, interna	tional organizations.					
Evalu	lation						
The quality of medical care services provided to community of Navoi oblast will improve.							
•	Oblast population will get seasonable care, emergency care, especially in remote areas.						
•	Population's complains will reduce.						
Othe	r Remarks						
•	This problem is prior, because if we improve medical services in Navoi, we will be able to provide proper health care and it will lead to the satisfaction of the population with provided health care.						

Table 9: Action Plan Proposed in Workshop-2 (4/6)

Table 10: Action Plan Proposed				
Group No. 5 Goal: To improve preventive measures amon	g the population of Navoi ob	olast		
Activity	Responsible	Time Frame		
1. To upgrade patronage system	NOHA	Deadline:		
1.1 to develop real patronage load and financial motivation	Branch of "Health"	January 2008		
according to the results of work (in urban, rural and pilot	institute	5		
facilities)				
2. To provide access to new information by self- education (to	NOHA	Monthly		
organize libraries, access to computers and Internet in CRH	Association of doctors	according to		
2.1. To open training center equipped with computers for	and nurses, SVP, RCH,	the plan		
distance education in oblast specialized hospital.	International			
2.2 Experience exchange among SVP by study tours.	organizations			
3. To conduct disease preventive measures and healthy lifestyle	Primary health care	Regularly		
promotion.	facilities, makhalla	0 5		
3.1 To inform the population about responsibility for their own	(community authority)			
health	foundation, RCH,			
3.1.1. to use mass media	NOHA			
3.1.2. distribute visual aids during outpatients services				
3.1.3. during patronage				
3.1.4. during dispensary				
4. To develop extra income sources by efficient use of land,	Primary health care	Constantly		
lease, it is necessary to make fee pay services legal for non	facilities			
residents, involve sponsors, collective farms, organizations-				
making agreements.				
Resources				
leaders of makhalla (community structure).committee, Associatio	n of doctors and nurses, brai	nch of "Health"		
institute, international organizations or sponsors, documents on p	atronage nurse activity, typi	cal route list of		
patronage nurse, health providers involved in patronage activity, fi	nancial resources			
Evaluation				
according to the statistics, decrease of morbidity, mortality, disa	bility and complains from	the population,		
increase of health index (by survey, questionnaires); improv	ement of registration qual	ity and health		
knowledge of the population, decrease of sick leaf rate F 16-2	(survey, questionnaires), in	mprovement of		
equipment and health providers' knowledge, decrease of bed occu	pancy rate (statistics report).	-		
Other Remarks				
Prevention work in health care system is cost-effective comparing	g with treatment and diagno	stics. Therefore		
primary health care facilities efforts directed to the improvement				
diseases compose an essential and actual part of health care in Nav				
All problems are important, but without proper system of p	reventive measures no oth	er reforms are		
beneficial, as it is better to prevent diseases than cure them. Preven				
morbidity rate.				
In general oblast hospital, we can arrange post graduate training	courses for health care prov	iders from city		
and rayons. We can arrange theses courses in a room equipped with computers, connected to Internet. There				
will be opportunity to establish distance education with TIMPE an	d other medical associations			

Group No. 6 Goal: To improve the drug supplies to the remote areas					
Activity	Responsible	Time Frame			
1. To open small pharmacy or corner in each SVP and	Health facilities' chief doctors,	4-quarter			
FAP for selling essential drugs	Dori Darmon (Main Pharmacy	2007			
5 5	Department)				
2. In order to make medicines are more accessible to	Health facilities' chief doctors,	4-quarter			
use involve agricultural firms funds (rural farms)	Oblast Government,	2007			
	Rural farms chiefs				
Resources					
Budget of SVPs and sponsors, medicine leasing by Main Pharmacy Department to SVPs					
Evaluation					
To conduct surveys among local communities.					
Other Remarks					
In our oblast (Uchkduk and Tomdi), we have very remote areas. It is a very complicated problem to build					
pharmacies there and find specialists to work there. But still our aim is to find the ways to provide populations					
with necessary medicines since this demand is very strong.					

Table 11:Action Plan Proposed in Workshop-2 (6/6)

4 Workshop 3: Basic Strategy

The workshop-3 was conducted on 4 September 2007 with 28 participants from MOH, Health institute, republican health facilities and NOHA. Detailed program of the workshop-3 is presented in Table 12.

Table 12: Program of Workshop-3	
Item	In charge
1. Opening remarks	MOH
2. Brief explanation about the study	JST/NOHA
3. Report on the outputs of the workshops in Navoi	
4. Guidance and forming small groups	
Lunch break	
5. Group works	Participants
13:00 – 14:00 Group discussion	
14:00 – 14:20 Tea Break	
14:20 – 15:30 Presentation on Group discussion (2)
6. Closing remarks	JICA
	Item 1. Opening remarks 2. Brief explanation about the study 3. Report on the outputs of the workshops in Navoi 4. Guidance and forming small groups Lunch break 5. Group works 13:00 – 14:00 Group discussion 14:00 – 14:20 Tea Break 14:20 – 15:30 Presentation on Group discussion (2)

Note: MOH=Ministry of Health; NOHA=Navoi Oblast Health Administration; JST=JICA Study Team

The Study Team and NOHA jointly presented about the outline of this study and outputs of the workshops in Navoi. Generally, the participants agreed with the proposals from Navoi. Regarding problems in remote areas, MOH expressed that SVPs are allowed to operate by self-supporting accounting system to response needs in remote areas. However, NOHA explained that SVPs in remote areas in Navoi have not been able to financially independent because of various factors, especially economic difficulty.

After the guidance the participants formed three small groups to discuss the following topics raised by the Study Team (Figure 4).

	ation increases n-communicable		ices cannot catch up with rapid innovation e condition of free services, conservative			
	last Health Adr ease pattern in fut	ninistrations finance services to ture?	↓ 0.3: Do emergency healthcare services continue to be free?			
	nake balance bet financial resourc	ween prevention and treatment for es?	Ļ			
Group 1		Group 2	Group 3			
 1.1: What criteria of for prioritizati disease prever use for prever mass educatio checkups, rev. TOR of patron nurses, disease management o outpatient leve 	on of ntion? es do you tion, e.g. 2.2 n, ision of 2.3 rage 2.4 e 2.4 el, etc.?	How do you optimize allocation of facilities for efficient utilization of financial resources? Can new establishment of Oblast General Hospital pay? What non-communicable diseases are prioritized? How do you renew protocol of prioritized diseases at both republican level and facility level?	 3.1 Do you intend to introduce new technology even under constraint of financial resources? 3.2 What diseases are prioritized for introduction of new technology? 3.3 An Oblast Health Administrations finance introduction of new technology? 3.4 If 3.3 is no, how do you prioritize services for economizing expenditure? e.g. hospitalization by asthma, complication from diabetes, etc. 			
Horizontal issues fo	r all groups: Impr	rovement of client (patient) satisfacti	ion			
Issues on remote are						
[Okinawa, mo the budget of 4.2 Is it possible to - Ministry of I	Is it possible to establish the system to dispatch medical doctors to remote areas with republican budget? [Okinawa, most southwest islands of Japan, received doctors sent from medical universities in mainland, with the budget of the Ministry of Health and Welfare.] Is it possible to do the following for improving access to pharmaceuticals at remote areas? - Ministry of Health directs to distribute drugs with prioritizing RCHs and SVPs					
0	- Drugs can be sold at unused rooms of SVPs.					
- Drugs can be	- Drugs can be sold during patronage activities					
	Figure 4:	Topics of Group Discuss	ion in Workshop-3			

Participants were basically supportive and did not express objections or critical negative comments against the proposals from Navoi shown in Table 6 to 11. And the group discussions were taken in line with the concepts of those proposals.

As results of the group works, the following conclusions were presented by the participants as shown in Table 13 to 15.

	Table 13:	Conclusion of Group Work in Workshop-3 (1/3)
Grou	p 1: Prevention	
I. (Criteria to set priority in pre	vention activity
1.	Morbidity (infectious and	not infectious)
2.	Prevalence	
3.	Mortality	
4.	Vulnerability	
5.	Disability caused by the d	lisease
II. I	Prioritized approach of prev	ention activity
1.	Early detection by health	
2.	Provide sufficient out-pat	
3.	Improving of quality of p	
		rkload of health care providers, taking into account the area of
	service, result and st	
		ation to choose primary establishment
4.	Development among the	population of comprehension of a healthy life style
Rema	arks:	
		tion and treatments of chronic diseases to create a regional general
ŀ	hospital including rehabilita	tion centers.

Table 14:Conclusion of Group Work in Workshop-3 (2/3)Group 2: Health Care Services at Oblast Level (Oblast General Hospital)

Oroup	
Non-c	ommunicable diseases to be prioritized
1.	Cardiovascular diseases (including heart attacks and insults)
2.	Oncology
3.	Endocrine diseases (a diabetes, diseases of a thyroid gland)
4.	Gastrointestinal diseases
5.	Renal diseases (including urolithiasis and chronic renal failure)
6.	Chronic non-specific diseases of lungs
Ways t	to combat diseases:
1.	Preventive measures (Promotion of a healthy life style, elimination of the causes -
	ecological, social factors, access to clean potable water, good sewage system, a balanced
	diet)
2.	Prophylactic medical examination (routine inspections, early detection)
3.	Early diagnostics of diseases
4.	Qualified specialized treatment provided in timely manner
5.	Rehabilitation, the active follow-up and frequent health check-ups
Navoi	regional general hospital consisting of the following branches:
1)	Therapy
2)	Neurology
3)	Ophthalmology
4)	Nephrology

- 5)
- Nephrology Urology Scheduled surgery 6)
- Endocrinology (to liquidate a dispensary) 7)
- Cardiology 8)
- Rehabilitation branch 9)
- 10) Advisory (consultative) polyclinic

Group 2: Health Care Services at Oblast Level (Oblast General Hospital)

Effects to be expected :

- 1) Rendering of the qualified specialized medical care
- 2) Improvement of continuity between health care facilities
- 3) Improvement of the advisory diagnostic help to the population
- 4) Satisfaction of need of the population in the specialized inpatient care
- 5) Rendering of organizational methodical help to other health care facilities (including a professional training)
- 6) Rational and an effective utilization of the limited budgetary funds

Quality of treatment:

Standards of diagnostics and treatment (SDT) of diseases have been developed on 23 directions (out of more than 800 diseases).

 \downarrow

- 1. Introduction of SDT
 - 1) Training of the staff (on a vertical scheme) and certification
 - 2) Maintenance with standards of all health care facilities
 - 3) Maintenance of the control over introduction SDT (monitoring)
- 4) Periodic revision SDT in view of development of a science and technology
- 2. To develop clinical protocols with considering of DM

Maintenance with drug supplies according to essential list of medicines (budget)

- 1) Periodic revision of the essential list
- 2) Increase in financing for drug supplies
- 3) Rational use of budgetary funds
- 4) Improvement of quality of treatment

Standards of medical equipment provision of health care facilities of all levels

- 1) Development of standards of provision of medical equipment (Standard of medical equipment)
- 2) Equipment of health care facilities according to Standard
- 3) Correct operation (exploitation) and service
- 4) Effective and rational use of the medical equipment

Table 15:Conclusion of Group Work in Workshop-3 (3/3)

Group 3: Emergency Care

Improvement of the emergency care services

- 1. For alignment of a degree of quality of the care in the regional branches and in Tashkent there is a loan program of IBD (Islamic Development Bank) on which 13 branches will be equipped with the necessary equipment
- 2. Improvement of diagnostics at a level of a primary health care level and first aid will lead to the reduction of load on emergency care. The state document on the further reforming public health services under the approval process. It includes, in particular, development of diagnostic service at an outpatient level.
- 3. Rayon branches of the emergency help will be equipped due to the credit of the Kuwaiti Bank with the necessary medical equipment (according to standards)
- 4. The share of the state budget in paid medical establishments will be reduced, the released funds will be directed to the primary health care and the emergency care
- 5. Introduction of medical insurance is planned
- 6. Standards of treatment should be advanced.
- 7. Reduction of length of stay in a hospital
- 8. Observation of the stages of treatment

Group 3: Emergency Care

- 9. In Navoi it is impossible to observe areas all stages of treatment because there is no general hospital
- 10. Improvement of professional skill of the staff, including nurses
- 11. Work with the population (mass-media, Institute of health)
- 12. Attraction of young specialists to work in Navoi region with introduction of material stimulus, apartments (the responsibility of Navoi Khokimiyat), payment of training in medical institute with required return to Navoi region, special clinical internship

Before starting group works, the following solutions were suggested by participants: Because SVPs can be operated on self-paying basis; they could introduce additional income earning system or take other measurements to solve their difficulty which are suitable to their socio-economic conditions.

The workshop was concluded to encourage health care system reform in Navoi.

Name	Title
Workshop-0	First Donuts of Hood of NOUA
N. Shodiev I.R.Nodirov	First Deputy of Head of NOHA
I.R.INODIFOV	Head of Information Statistical Department/ Deputy Director, Navoi Oblast Blanch,
	Health Institute
M.T.Murodova	Chief Nurse of NOHA
H. Nazarov	Head of Medical Prophylactic Department of ORHA
T. Kahhorov	Head of Technical Control Department of NOHA
B. Teshaev	Chief Pathologist of NOHA
H. Kaymokov	Head of Department, Navoi Region Sanitary Epidemiological Control Center
B. Yangiev	Director of Emergency Center
G.A.Aslonov	Chief Doctor of Oblast Maternity House
B.G.Gaffarov	Chief Doctor of Navbakhor RCH
Workshop-1	
N. Shodiev	First Deputy of Head of NOHA
L.U.Namozova	Deputy of NOHA's Chief on MCH
I.R.Nodirov	Head of Information Statistical Department/ Deputy Director, Navoi Oblast Blanch,
	Health Institute
S.SH.Shamsiyev	Chief therapeutic of NOHA
R.R.Kalimbetov	Chief pediatrician of NOHA
M.T.Murodova	Chief nurse of NOHA
H. Nazarov	Head of Medical Prophylactic Department of NOHA
T. Kahhorov	Head of Technical Control Department of NOHA
H. Kaymokov	Head of Department, Navoi Region Sanitary Epidemiological Control Center
H. Quvandikov	Deputy of Chief Doctor of TB dispensary
O. Azimov	Deputy of Director of Emergency Center
G.A.Aslonov	Chief Doctor of Oblast Maternity House
N.J.Sidikov	Chief Doctor of Oblast Child Hospital
B.A.Imomkulov	Chief Doctor of Navoi city Central Polyclinic
K.E.Sharipova	Chief Doctor of HIV/AIDS center
B. Niyazov	Deputy of Chief Doctor of Venerial Diseases Dispensary
J. Berdiev	Deputy of Chief Doctor of Infection Diseases Hospital
H. Temirov	Deputy of Chief Doctor of Navbakhor RCH
I.H.Himmatova	Deputy of Karmana RCH's Chief Doctor
H.K.Tuksanov	Chief Doctor of Kanimekh RCH
B.B.Saidov	Deputy of Navbakhor RCH's Chief Doctor
F.R.Usmonov	Chief Doctor of Hatirchi RCH
E.Arapbayev	Chief Doctor of Tomdi RCH .

Attachment 1: List of Participants in Workshops in Navoi

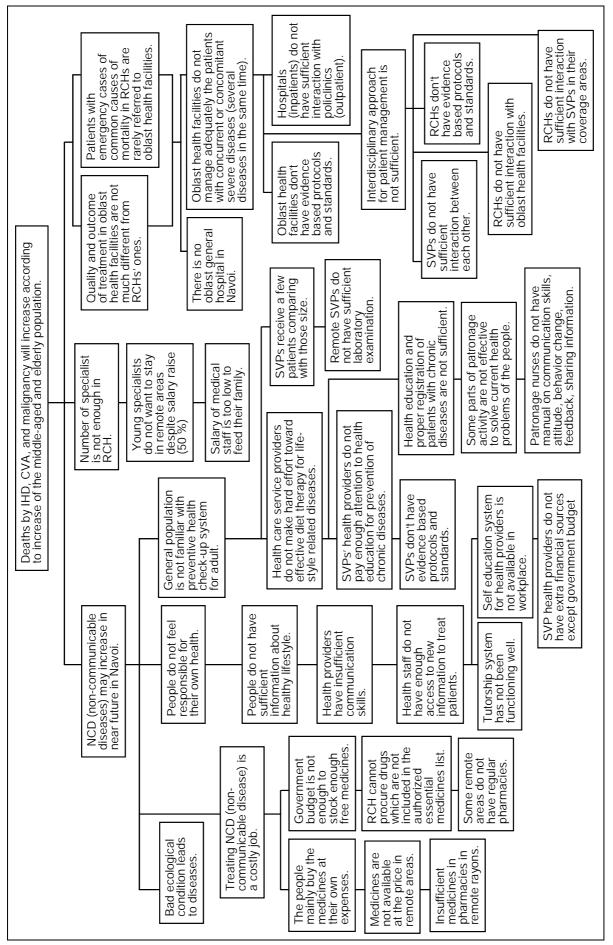
Name	Title
Yu.Yu.Kosimov	Director of "Health 2" Project
Workshop-2	
A.M.Nosirov	Head of NOHA
N. Shodiev	First Deputy of Head of NOHA
L.U.Namozova	Deputy of NOHA's Chief on MCH
I.R.Nodirov	Head of Information Statistical Department/ Deputy Director, Navoi Oblast Blanch,
	Health Institute
S.SH.Shamsiyev	Chief therapeutic of NOHA
R.R.Kalimbetov	Chief pediatrician of NOHA
M.T.Murodova	Chief nurse of NOHA
H. Nazarov	Head of Medical Prophylactic Department of NOHA
T. Kahhorov	Head of Technical Control Department of NOHA
H. Quvandikov	Deputy of Chief Doctor of TB dispensary
B.A.Yangiyev	Director of Emergency Center
G.A.Aslonov	Chief Doctor of Oblast Maternity House
N.J.Sidikov	Chief Doctor of Oblast Child Hospital
B.A.Imomkulov	Chief Doctor of Navoi city Central Polyclinic
B. Niyazov	Deputy of Chief Doctor of Venerial Diseases Dispensary
T.H.Mukimov	Chief Doctor of Infection Diseases Hospital
I.H.Himmatova	Deputy of Karmana RCH's Chief Doctor
H.K.Tuksanov	Chief Doctor of Kanimekh RCH
B.B.Saidov	Deputy of Navbakhor RCH's Chief Doctor
F.R.Usmonov	Chief Doctor of Hatirchi RCH
E.Arapbayev	Chief Doctor of Tomdi RCH .
E.U. Ahmedov	Chief Doctor of Uchkuduk RCH
Yu.Yu.Kosimov	Director of "Health 2" Project
Sh. Shoumarov	Department of Reformation and Fee-paying Services of MOH

Attaciment 2.	
Name	Title
Khadjibaev A. M.	First Deputy Minister of Health
Sharapov N. U.	Deputy Minister of Health of Uzbekistan
Khoshimov Sh.	Head of Treatment Department, Ministry of Health of Uzbekistan
Khoshimov B. A.	Head of Main Economic Department, MOH
Atahanov Sh. E.	Head of Department of Science and Educational Institutions, MOH
Azamov A.	Head of Department of Reforming, Privatization, Paid Services, MOH
Siddikov A.E.	Head of International Department, MOH
Saidaliev S. S.	Head of Department of State Epidemiology Surveillance, MOH
Kalanov	Head of Main Department of Development of Material and Technical Base,
	МОН
Mutalova Z. J.	Director of the Health Institute
Alimova V.S.	Deputy of Head of Treatment Department, MOH
Arifjanova D.	Specialist of MCH Department, Ministry of Health of Uzbekistan
Saidov A.S.	Leading specialist, department of reforming, privatization, paid services
	МОН
Sabirov D.	President of Tashkent State Medical retraining institute
Alyavi A	Director TTRITI
Malikov Yu. R.	Director of the Republican Emergency Care Center
Daminov B. T.	Chief nephrologist of the MOH
Abdullaev S.	Chief theraputist of the MOH
Sultanov S.	Chief OB/GYN of the MOH
Akbarov M.	Chief Surgeon of the MOH
Govorukhina I. Yu	Deputy Director on Nursing, the Republican Emergency Care Center
Nosirov A.M.	The Head of NOHA
Nodirov I. R.	Head of Information Statistical Department/ Deputy Director, Navoi Oblast
	Blanch, Health Institute
Gafurova D.N.	Deputy director of the Institute of health
Abdullaeva M.N.	Doctor –methodologist, Institute of Health
Alimardanov S. K.	Chief of medical statistics DPT, Institute of Health
Husanov Sh. Ch.	Chief of IT DPT, Institute of Health

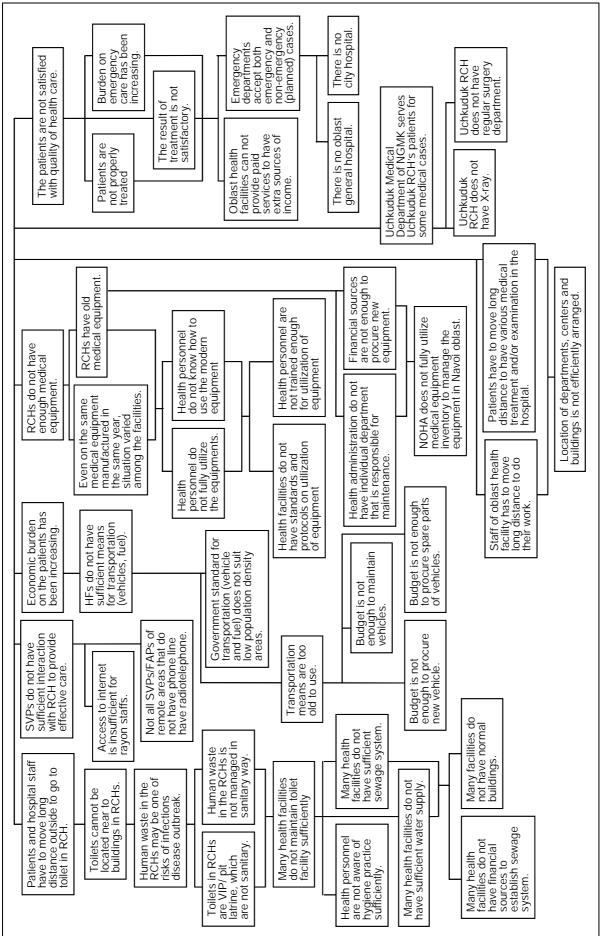
Attachment 2: List of Participants in Workshop in Tashkent

Human Resources	Medical Services	Medicine	Sys	stem	Communication and Transportation	Equipment	Fa	cility
Some parts of patronage activity are not effective to solve current health problems of the people.	SVPs' health providers do not pay enough attention to health education for prevention of chronic diseases.	The people mainly buy the medicines at their own expenses.	Community do not have enough information about healthy life-style	Some remote areas do not have sufficient pharmacies	Access to internet is costly for rayon staffs.	Even on the same medical equipment manufactured in the same year, situation varied among the facilities.	Some RCHs do not have sufficient water supply to maintain toilet sanitary.	Toitets in RCHs cannot be located near the hospital building.
Health providers take overbearing attitude to patients.	SVPs don't have evidence based protocols and standards.	Insufficient medicines in pharmacies in remote rayons.	"Tashkent delegation" suddenly stops regular important activities in Navoi	Medical Department of Zarafshan NGMK receive only emergency cases' patients from remote areas	Access to internet is insufficient for rayon staffs.	Uchkuduk RCH does not have X-ray.	Uchkuduk RCH does not have ICU department.	Location of departments, centers and buildings is not optimal
Health care service providers do not make hard effort toward effective diet therapy for life- style related diseases.	Deaths by IHD, CVA, and malignancy will increase according to increase of the middle-aged and elderly population.	Medicines are not available at the price in remote areas.	Oblast health facilities can not provide fee services and do not have additional income	The patients are obligated to pay for medicines and its transportation.	Not all SVPs/FAPs of remote areas that do not have phone line have radiotelephone.	RCHs have old medical equipment.	Human waste in the RCHs may be one of risks of infections disease outbreak.	Waiting room in health facility does not have sufficient sitting facility and comfortable space
Health providers have nsufficient communication skills.	Emergency hospitals may accept both emergency and non- emergency (planned) cases.	Treating NCD (non- communicable disease) is a costly job.	Some remote areas do not have pharmacies	PHC health providers do not have extra financial sources except government budget	Health facilities do not have enough tools for communication. (telephone, radio, etc.)	RCHs do not have enough medical equipment.	Patients have to move long distance to have various medical treatment and/or examination in the hospital.	
RCHs do not have individual maintenance department.	Not everywhere health education for reduction of smoking is taken care of.	RCH cannot procure drugs outside the authorized essential medicines list.	SVPs receive a few patients comparing with those size.	Even the patients with emergency cases should pay for health services in Uchkuduk NGMK Medical Department			Some facilities are left broken in some health facilities.	
No interdisciplinary approach o patient management.	RCHs don't have evidence based protocols and standards.	RCH does not open "paid department" smoothly.	Hospitals (inpatients) do not have sufficient interaction with policlinics (outpatient).	Health facilities do not have systematic and regular maintenance.			Many health facilities do not maintain toilet facility sufficiently.	
Remote SVPs do not have sufficient laboratory examination	People do not feel responsible for their own health	Lack of governmental budget for stoking of free medicines.	People do not have sufficient information on hygiene	Salary of medical staff is too low to feed their family.			Toilets in RCHs are VIP/ pit latrine, which are not sanitary	
Health personnel do not aware of hygiene environment such as toilet sufficiently.	General population is not familiar with preventive health check-up system for adult.		SVPs do not have sufficient interaction between each other.				Staff of oblast health facility has to move long distance to do their work.	
No system of self studies for nealth providers in workplace.	Patronage nurses do not have universal distribution of manual on communication skills, attitude, behavior change, feedback, sharing information		Administrative interaction is insufficient between MOH and NOHA				Uchkuduk RCH does not have surgery department.	
Lack of health providers in RCH	Health staffs do not have enough access to new knowledge to treat patients.		Health facilities do not have individual maintenance department.				Protection facilities are not enough for X-ray room, especially to the windows.	
Tutor system is not functioning well.	Patients with emergency cases of common causes of mortality in RCHs are rarely referred to oblast health facilities.		Bad ecological condition leads to diseases.				Some health facilities (pediatric hospital and cancer dispensary) do not have enough floor height to maintain proper function.	
Surgeons not regularly stationed in Tomdi RCH.	Oblast health facilities do not manage adequately the patients with concurrent or concomitant severe diseases (several diseases in the same time).		RCHs do not have sufficient interaction with SVPs in their coverage areas.				Many health facilities do not have sufficient sewage system.	
	Oblast health facilities don't have evidence based protocols and standards.		No adapted model of city patronage system				Many health facilities do not have sufficient water supply.	
	Treatments and outcomes quality of oblast health facilities are not much different from RCHs' ones.		RCHs do not have sufficient interaction with oblast health facilities.				Uchkuduk Medical Department of NGMK serves Uchkuduk RCH's patients for some medical cases.	
	NCD (non-communicable diseases) may increase in near future in Navoi.		Health administration do not have individual department that is responsible for maintenance.	t			Human waste in the RCHs is not managed in sanitary way.	
	The patronage activities in some areas are one-way and not interactive.		NOHA does not fully utilize medical equipment inventory to manage the equipment in Navoi oblast.				Patient and hospital staff have to walk long distance outside to use toilet in RCH.	

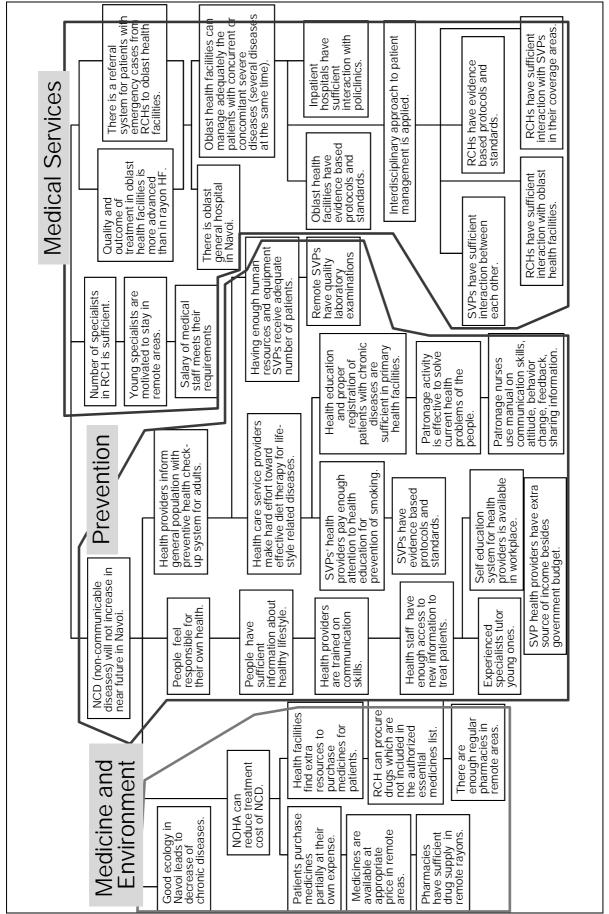
Attachment 3: Categorized Problem Cards



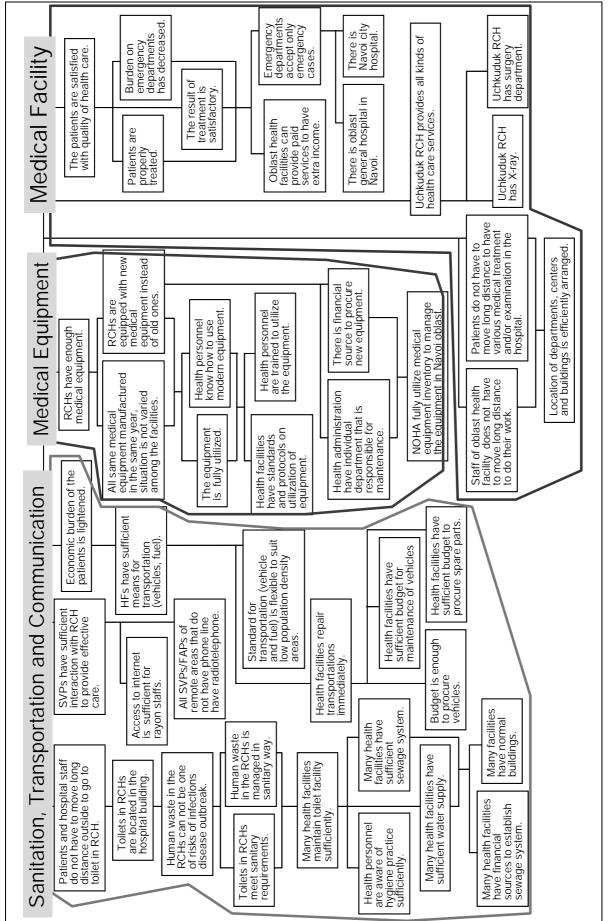




Attachment 4-2: Problem Tree (2)



Attachment 5-1: Objective Tree (1)



Attachment 5-2: Objective Tree (2)

15. Outline of Seminar on Draft Final Report

15. Outline of Seminar on Draft Final Report

The pre-seminar and the seminar on the draft final report were held as the following schedule.

Pre-seminar

Date: 11:00 – 13:00, Saturday, 19 January 2008

Venue: Conference Room of Ministry of Health

Agenda:

- Brief presentation on "Reinstate MOH budget as % of GDP"
- Brief presentation on "Health Problems Affecting Multiple Organs"
- Explanation on the draft final report and the seminar
- Discussion

Participants:

Title
First Deputy Minister of Health
Deputy Minister of Health on MCH
Director of Health Institute
Policy Center for medicines/materials
Head of Department of science and Educational
Institutions
Chief of information center, Tashkent Advanced
school of doctors
Head of International Relations Department
Head of Treatment Department
Head of Department of Reforming, Privatization, Paid
Services
Chief of Economic and Finance Department
Chief of Sanitary Epidemiological Control Department
Head of MCH Department
Main specialist of MCH Department
JICA Study Team
Assistant for JICA Study Team
Assistant for JICA Study Team

Seminar

Date: 10:00 – 16:00, Thursday, January 24, 2008

Venue: Conference room "Silk Road A" in Dedeman Silk Road Tashkent

Program:

•	
9:30 – 9:55	Registration
9:55 – 10:00	Introduction
10:00 – 10:15	Opening Remarks
10:15 – 11:15	Session 1: Outline of the Study
11:15 – 11:45	~ Coffee Break ~
11:45 – 12:30	Session 2: Reinstate MOH budget as % of GDP
12:30 – 13:30	~ Lunch Break ~
13:30 – 14:00	Session 3: Spirits of Good Service and Health Care Topics in Japan
14:00 – 15:00	Session 4: Health Problems Affecting Multiple Organs
15:00 – 15:10	~ Coffee Break ~
15:10 – 15:25	Comments by Representative of Participants
15:25 – 15:40	Conclusion
15:40 – 16:00	Closing Remarks

Participants:

Name	Title
Ministry of Health	
Mutalova Zulhumor Jalalovna	Director of the Health Institute
Khayrullaev A. Ulugbek	Chief of Division, External Economic Activities
	Department
Islamova N. A.	Main specialist of MCH
Nematova Z.H.	Chief doctor of family polyclinic #53. Tashkent
Aitbaeva A.S	Environment sanitation specialist
Abdunazarova M.G.	Chief doctor of family polyclinic #1.
Rustamov M.A.	SECC (Sanitary Epidemiology Control Center) of
	Hamza rayon, Tashkent city. Head of Department
Salimova G.D.	SECC of Yunusabad rayon, Tashkent city.
	Immunologist.
Nurmuhamedova G.A.	SECC of MirzoUlugbek rayon, Tashkent city.
	Epidemiologist.
Ergashev T.E.	Chief doctor of family polyclinic #33.
Gulyamova N.C.	Chief doctor of family polyclinic #19.
Rasulova C.M.	Chief doctor of family polyclinic #30, Uchtepa rayon,
	Tashkent city.
Kasimova G.A.	Chief doctor of family polyclinic #31.
Sadriddinova G.R.	Chief doctor of family polyclinic #22, Shyhantaur
	rayon, Tashkent city.
Salibaeva N.M.	"Tashselmash" company-owned hospital, deputy chief
	doctor.

Name	Title
Ibragimova M.N.	Chief doctor of family polyclinic #50, Sergeli rayon,
5	Tashkent city.
Kabildjanova Z.Sh.	SECC of Shayhantaur rayon, Tashkent city. Head of
,	department.
Azizov N.M.	Chief doctor of family polyclinic #34, Sabir Rakhimov
	rayon, Tashkent city.
Hasanova H.M.	SECC of Uchtepa rayon, Tashkent city.
	Epidemiologist.
Ismatova D.A.	SECC of Mirabad rayon, Tashkent city.
	Epidemiologist.
Kabilova Sh.R.	Chief doctor of family polyclinic #2, Mirabad rayon,
	Tashkent city.
Kasimov Sh.C.	SECC of Sabir Rahimov rayon, Tashkent city. Doctor.
Abdurahmanov A.D.	Obstetrics and Gynecology SRI (Scientific research
	Institute)
Yugay A.V.	SECC of Sergeli rayon, Tashkent city
Halimova G.M.	Pediatrics SRI
Karimov Tulkun	IKS - Islohot consult service, manager
Sherova O.G.	Republican pediatrics poliomelithus hospital
Yuldasheva N.S.	Republican pediatrics poliomelithus hospital
Rahmatillaeva M.N.	Chief doctor of family polyclinic #35,
Kurbnov D.D.	Obstetrics and Gynecology SRI. Director.
Ahmedova I.M.	Pediatrics SRI
Gorshkov S.V.	Obstetrics and Gynecology SRI.
Yakubov R.R.	Obstetrics and Gynecology SRI.
Shakirova K.S.	Polyclinic #26
Shamsiev F.M.	Chief pulmonologist of Pediatrics SRI
Djatdaev I.I.	Obstetrics and Gynecology SRI.
Tuhtaeva G.A.	Deputy chief doctor of family polyclinic #49
Kambarova M.H.	"Health" Institute
Abdullaeva M.N.	"Health" Institute
Yusupbaev R.B.	Obstetrics and Gynecology SRI.
Mirvarisova Lobar	Tashkent Institute of Advanced Medical Education
Lee O.P.	Sarkor SVS
Miratov M.	Sarkor SVS
Durmanov B.D.	Tashkent Institute of Advanced Medical Education
Navoi Oblast Health Administra	tion
Nosirov Abdurahmon	Head of NOHA
Mansurovich	
Nodirov Isomiddin	Head of Information Statistical Department/Deputy
Ramazonovich	Director of Health Institute, Navoi Oblast Branch
Kaymokov Hayitboy Kulbaevich	Head of Department, Navoi Oblast Sanitary
	Epidemiological Control Center
USAID	

Name	Title
James Bonner	Country Director
Benjamin Mills (Nilufar	Health Advisor
Rakhmanova)	
WHO	
Michel Tailhades	Representative in Uzbekistan
Mavzhuda Babamuradova	National Professional Officer
UNFPA	
Khaled Philby (Fazilova F.)	Representative
World Bank	
Flora Salikhova	Human Development Operations Officer
Project Hope	
Abdunabi Kuchimov	Project Director
Embassy of Japan	
Mr. Takayuki KOIKE	Minister-Counselor
Toyama Mistuhiro	First Secretary
JICA Uzbekistan Office	
Nishimiya Noriaki	Resident Representative
Sonoyama Yuka	Assistant Resident Representative
Kusama Yuko	Assistant Resident Representative
Takemura Kazuko	Health Administrator
Yajima Kazue	Chief Advisor for Nursing Education Improvement
-	Project
lizuka Masaru	Project Coordinator for Nursing Education
	Improvement Project
Yamamoto Tetsuko	Japan Overseas Cooperation Volunteer (JOCV)
Sato Manami	JOCV
Nagae Akiko	JOCV
Azuma Asako	JOCV
Kawano Asuka	JOCV (TSPU)
Mass media	
Talipov N.	"Health Care in Uzbekistan"
Otakulv H.	Radio "Oriyat-Dono"
Kasimiv D.	Nespaper "Hamkor"
Yakubov A.	Website "UzReport.com"
Biryukov Igor	Radio "Poytaht"
Abdullaev A.	TV channel NTT
Begmtov B.	TV channel NTT
Serikov K.	Nespaper "Business partner"
Yorkulov T.	"Uzbek radio"
JICA Study Team	
Abe Chiharu	Team Leader
Akihiro Yomo	Medical Science
Keiko Nagai	Public Health
Take Naoki	Hospital Management

Name	Title
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Kholomanov Azam	Assistant
Muratova Nigora	Assistant
Ganzya Anastasiya	Interpreter/ Seminar staff
Yuldasheva Umida	Interpreter/ Seminar staff

Presentations are shown in the attachments.

Outline of questions and answers, and comments from participants are as follows.

<Questions and answers>

Q1. According to the presentation for session 2, the selected option requires the highest costs. Why did you select it and do you think it is feasible? At the same time, recurrent cost for the selected option seems to be large amount. Do you think it can be sustainable? Human resources is also important to implement the recommended program and maintain the quality of services. However, in Navoi, good human resources tend to drain to NGMK hospitals. How do you think ensure quality and quantity of human resources for public sector?

In Navoi, NGMK hospitals seem to provide medical services for certain amount of population with good quality. Do you think the new oblast medical center can maintain enough number of patients?

A1. The JICA Study Team and stakeholders carefully discussed on feasibility and sustainability of each option according to data and information presented in session 2. However, after the Presidential Decree was issued in September 2007, the option adjusted in accordance with the new policy. However, we still take into account feasibility and sustainability of the recommended program and suggest improving efficiency and effectiveness of the health care service system.

Actually, equipments in NGMK hospitals are getting old and some are not functioning well. Regarding human resources, NOHA provides opportunities for training and education for NGMK hospitals. However, quality of services of NGMK hospital in remote area (Zarafshan) is better than the oblast health facilities and people generally seem to rely on it.

- Q2. Does MOH or JICA have any future plan to conduct similar study in other regions. It is important to formulate health development program considering characteristics of each area.
- A2. It usually requires long time and procedure to apply this kind of study. Therefore, there are not concrete plan to conduct similar study in other regions.

<Comments from the participants>

Mrs. Mutalova Z.J., Director of "Health" Institute

Good afternoon, dear participants. On the behalf of Uzbek side I would like to say that we are very grateful for JICA study team for conducting this survey. This survey dealt not only with health care facilities but also with the opinion of people about health care services. Care seeking behaviour survey was conducted for a month in households of Navoi Region. The researchers used questionnaires to collect data. I can say that the results of this survey proved to be very significant and we use these results as manuals in our work now. And these results I can assure will be very helpful in our future work of reformation of health care services. Presentation today covered all spheres of health care and I am glad that matters of prevention were also pointed out. We will beneficially use your recommendations concerning disease prevention and health promotion. I would like to express my gratitude again and thanks for your attention.

Mr. Atahanov Sh. E., Head of department of science and educational institution of MOH.

Good afternoon, dear participants of our seminar. Today all of us became introduced with very interesting presentations. You know that last year we finished the implementation of Education system improvement Program. Beginning from this year much attention is paid on health care system improvement which can be proved by Decrees of the President on health care system improvement. Until 2012 20mln soums will be allocated for health care. We have great plans on improving health care facilities, provide them with modern equipments and qualified specialists. Your survey will be significant guideline in our reforms. We greatly appreciate the scale of work done by you and look forward to the new cooperation. Thank you very much.

Mr.Siddikov A.E., Head of international affairs department of MOH

As all of us, I would like to thank our Japanese counterparts for the cooperation and good work. Today we all see the results of hard work done in cooperation, which became important step in reformation of health care system. We all have to consider the results of survey

presented today. The implementation of developed plan is responsibility of all of us. Results, recommendations and conclusions introduced today are very significant and they can be the basis of our future work on health care system improvement. Thanks a lot for all participants for finding time to come here.

Mr. Nosirov A.M., Director of Navoi Oblast Health Administration

Today you see the results of work done in cooperation with JICA study team. I would like to thank all participants for coming. While survey JICA study team had five field missions and each time we were very glad to meet them and work with them. I hope that our cooperation will continue and the developed plan will also be implemented in cooperation and we will have some exchange activities. Thank you for attention.

Dr. Michael Tailhades, WHO, Representative in Uzbekistan

Today a lot of things were said about the survey. We all became informed with the results of survey. We can observe from these results that strong analysis of health care system in Navoi was made. Such crucial issue as NCD was touched in presentation today. Responsibilities of all health care levels in treating NCD and the role of referral hospitals were fully identified. And I am very glad that the significance of IMCI was pointed in correspondence with WHO thinking. I hope that such surveys will continue in other regions of country too.

THE STUDY ON THE REFORM OF HEALTH CARE SERVICES IN NAVOI REGION

- Outline of Study -

Navoi Oblast Health Administration JICA Study Team

The Study on the Reform of Health Care Services in Navoi Region has began on the base of S/W signed by Nazirov F.G., Minister of Health and Kae Yanagisawa, Leader of JICA Preliminary Study Team on June 21, 2008.

Introduction

- In 2005, a preparatory study was conducted. The study objectives and scopes of work were agreed by MOH and JICA,
- In 2007, based on the agreement, a JICA study team was sent to Uzbekistan, and
- On January 25, 2007, NOHA and the study team met each other to work on the study.

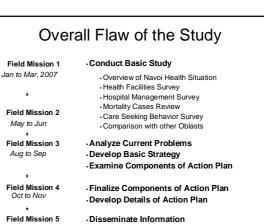
JICA study team

Team Leader	ABE, Chiharu
Medical Science	YOMO, Akihiro
Public Health	NAGAI, Keiko
Health Science	SHINKAWA, Kanako
Hospital Management	TAKE, Naoki
	MIMURO, Naoki
Equipment planner	NAITO, Sakie
Facility planner	HORIGOME, Yasuo
Coordinator	SUWA, Hiromi
	YOSHIMURA, Kenji

Scope of the Study

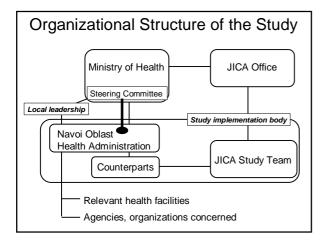
- · Basic study
- Formulation of basic strategy,
- Selection of an improvement plan for health care services in Navoi
- · Detailed plan on selected tertiary level health care services
- · Workshops and seminars

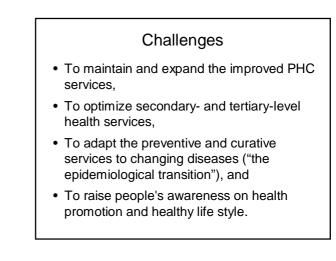
S/W July 21, 2005 between JICA / MOH



·Disseminate Information

Jan. 2008





Basic Strategy

- To organize an effective and efficient health care service system at oblast level
- To mitigate difficulties of health care services in remote areas
- To enhance secondary services in suburban rayons
- To improve diagnostic skills in accordance with level of facilities
- To optimize prevention activities

Diseases to Be Prioritized

- · Acute respiratory infections
- Cardiovascular diseases
- Diabetes mellitus
- · Hepatic and renal diseases
- Cancers

Health Care at Oblast-level

- > To provide tertiary care in the oblast
- To offer comprehensive health care for cases including non-emergency NCDs and complications
- To lead follow-ups of patients with NCDs

Health Care at Rayon level

- To provide secondary care in the oblast
- To distinguish cases to be referred with reliable diagnoses
- To encourage the follow-ups of back referred patients

Health Care at SVPs

- > To provide reliable primary care
- To treat mild cases of common diseases
- To judge severity and urgency of cases
- To refer, when necessary, without any delay

Health Care as a whole oblast

- Adequate response at the first contact of patient, regardless of levels of service
- Accurate diagnoses and treatments of emergency cases and severe cases at tertiary level
- > Effective follow ups afterward
- Prevention and rehabilitation

Short-term Objectives in 2010

- Preventive efforts of NCDs are initiated.
- Guidelines for diagnosing and treating NCDs are developed.
- In-service training scheme is arranged.
- Onset of establishing Oblast Medical Center and Diagnostic Center.

Mid-term Goals for 2012

- Preventive efforts are accelerated.
- Diagnostic skills of each level are improved.
- Trained doctors are assigned.
- Oblast General Medical Center and Diagnostic Center start operating and collecting users' fee.
- Oblast Emergency Center is optimized.

Long-Term Goals for 2017

- Preventive efforts are more accelerated.
- Excess mortality from NCDs remains low.
- Life expectancy is increased.
- Standard of emergency health care is upgraded.
- Oblast General Medical Center earns half of revenue from user's fee.

Components and Activities

Improvement Program for Health Care Service System of Navoi Oblast

Components

- 1. Disease Prevention Focusing of NCDs
- 2. Diagnosis and Treatment Process for NCDs
- 3. Health Facility
- 4. Medical Equipment
- 5. Efficiency of Drug Supply
- 6. Sanitary Conditions of Health Facilities

Component 1:

Disease Prevention Focusing of NCDs

Activities

- 1.1 Enhancement of Prevention Activities against NCDs and Health Promotion
- 1.2 Upgrading of Patronage Activity

1.1 Enhancement of Prevention Activities against NCDs and Health Promotion
Review and renew the contents of mass education on disease prevention
Include target diseases to check-ups of target age group

Goal	Incidence of major NCDs is contained.
Purpose	Adult population in Navoi Oblast is aware of responsibility of their own health.
Cost	Investment: 67,252.2 million soums
	Recurrent: <u>121,111.5 million soums</u> (2008-2017)

1.2 U	pgrading of Patronage Activity
activ	lyze and evaluate current patronage rities ise manuals for patronage nurses
Goal	All chief nurses in RMA provide instruction to patronage nurses based on the revised manual from 2009.
Purpose	Patronage activity can respond to the latest actual health problems efficiently.
Cost	Investment: <u>30 million soums</u> Recurrent: <u>173.5 million soums</u> (2009-2017)

Component 2

Diagnosis and Treatment Process for NCDs

Activities

- 2.1 Standardization of Diagnosis and Treatment Process of NCDs
- 2.2 Coordination of Different Specialties
- 2.3 Personnel Plans and Regular Implementation of In-service Training Course

2.1 Standardization of Dianosis and Treatment Process of NCDs

- Develop guidelines on management of NCDs
- Utilize developed guidelines in the whole oblast
- Revise guidelines periodically
- Goal Diagnostic and treatment capacity of health care system is improved as a whole.
- Purpose
 Mechanism of updating practical guidelines is institutionalized.

 Cost
 Investment:
 <u>36.0 million soums</u>
- Recurrent: <u>417.4 million soums</u> (2009-2017)

	ordination of Different Specialties or ilities	
 Send selected doctors to learn actual examples of coordination 		
♦ Upgi	rade manuals at periodical revising	
Goal	Diagnostic and treatment capacity of health care system is improved as a whole.	
Purpose	Criteria of referring and back-referring NCD cases are defined. Internal coordination at OGMC and inter-facility coordination are improved	
Cost	Investment: <u>14.5 million soums</u> Recurrent: <u>526.2 million soums</u> (2009-2017)	

	rsonnel Plans and Regular Implementation of service Training Course		
♦ Rer	♦ Renew personnel plan		
 Implement in-service training at OGMC 			
 Train doctors working at rayon level facilities 			
 Upgrade service standards of rayon level 			
Goal	Diagnostic and treatment capacity of health care system is improved as a whole.		
Purpose	 Skills and knowledge of health personnel improve continuously. 		
Cost	Investment: <u>35.1 million soums</u> Recurrent: <u>222.1 million soums</u> (2009-2017)		

Component 3:

Health Facility

Activities

- 3.1 Establishment of General Medical Center and Oblast Diagnostic Center
- 3.2 Optimization of Oblast Emergency Center
- 3.3 Strenghtening of Rayon-level Health Facilities

- 3.1 Establishment of General Medical Center and Oblast Diagnostic Center
 - Establish OGMC and ODC
 - Recruit necessary staff
 - ♦ Operate OGMC and ODC in 2012
 - Goal OGMC and ODC are smoothly operated as centers of tertiary care and in-service staff training.
 - Purpose Proper management of non-emergency adult patients. Sophisticated diagnostic services to both adults and children.
 - Cost Investment: 20,500.0 million soums Recurrent: 32,552.1 million soums (2012-2017)

3.2 Optimization of Oblast Emergency Center

Oblast-level medical services including emergency care shall be optimized.

3.3 Strengthening of Rayon-level Health Facilities

Rayon-level medical services on common diseases shall be strengthened.

Component 4:

Medical Equipment

Activities

- 4.1 Improvement of Maintenance of Medical Equipment
- 4.2 Procurement of Medical Equipment for RCHs
- 4.1 Improvement of Maintenance of Medical Equipment
 Improve equipment inventory
 Upgrade usage of manuals
 Start "help-desk" services
 Goal Medical equipment is kept functioning more.
 Purpose Medical equipment is maintained in efficient approach. Preventive maintenance is enhanced.
 Cost Investment: <u>32.6 million soums</u> Recurrent: <u>109.9 million soums</u> (2008-2017)
- 4.2 Procurement of Medical Equipment for RCHs
 Procure essential equipment for RCHs
 Train RCHs staff on operation and preventive maintenance
 Plan adequate budget for maintenance
 Goal Diagnosis and treatment of common diseases are ensured in RCHs.
 - Purpose
 Quality of diagnosis and treatment in RCHs is improved. Adequate medical services of RCHs mitigate the burden of remote areas.

 Cost
 Investment: 4.756.5 million soums (Procurement
 - Cost
 Investment: 4,756.5 million soums
 (Procurement)

 Recurrent:
 8,233.7 million soums
 (2009-2017)

Component 5:

Efficiency of Drug Supply

Activities

- 5.1 Centralizing of Medicine Preparation
- 5.2 Improvement of Access to Drugs at Remote Areas

- 5.1 Centralizing of Medicine Preparation
 Establish oblast medicine preparation unit and unified supply system
 Monitor effectiveness and efficiency of supply
 Goal Efficiency of medicine preparation increases.
 Purpose Preparation of medicine (transfusions) is centralized in the oblast and distributed to RMAs on demand.
 Cost Investment: <u>30.0 million soums</u> Recurrent: <u>182.0 million soums</u> (2009-2017)
- 5.2 Improvement of Access to Drugs at Remote Areas
 - Increase budget for drugs
 - Review drug prescriptions and instruction on compliance
 - Seek local entities that sell drugs at remote areas

Goal	Inequality on people's drug access mitigates.
Purpose	Budget for drugs is increased.
	Drug prescription and compliance is improved. Local entities start selling drugs at remote areas.
Cost	Investment: <u>720.6 million soums</u> Recurrent: <u>9,666.6 million soums</u> (2009-2017)

Component 6:

Sanitary Conditions of Health Facilities

Activities

- 6.1 Introduction of "self-pouring and selfflushing" toilet
- 6.1 Introduction of "self-pouring and self-flushing" toilet
 Establish "self-poring and self-flushing" toilet
 Establish system of adequate maintenance of improved toilet
 Goal Infections caused by sanitary condition is avoided.
 Purpose Sanitary condition in health facilities is improved in target rayons and facilities.
 Cost Investment: 141.4 million soums Recurrent: 25.4 million soums (2008-2017)

Total Cost of Activities

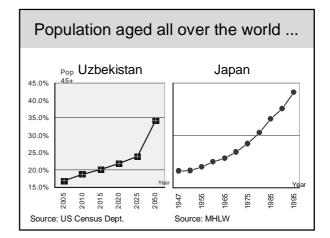
Investment cost:32,996.8 million soumsRecurrent cost:172,872.2 million soums

Total NOHA recurrent budget in 2008-2017: <u>433,377.5 million soums</u> NOHA recurrent budget required to be increased for implementation of 11 activities: <u>47,291.7 million soums</u>

	Activities			
1.1	Enhancement of Prevention Activities against NCDs & Health Promotion			
1.2	Upgrading of Patronage Activity	-		
2.1	Standardization of Diagnosis and Treatment Process for NCDs	_		
2.2	Coordination among Different Subspecialties			
2.3	Personnel Plans and Regular Implementation of In-service Training Courses	_		
3.1	Establishment of Oblast General Medical Center / Oblast Diagnostic Center	-		
3.2	Optimization of Oblast Emergency Center	-		
3.3	Strengthening of Rayon-level Heath Facilities	-		
4.1	Improvement of Maintenance of Medical Equipment	-		
4.2	Procurement of Medical Equipment for RCHs	-		
5.1	Centralizing of Medicine Preparation	-		
5.2	Improvement of Access to Drug at Remote Areas	-		
6.1	Introduction of "Self-filling and Self-flushing" Toilet	_		

Navoi Oblast Health Administration

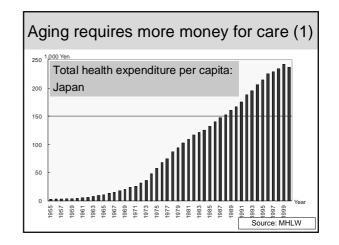
JICA Study Team

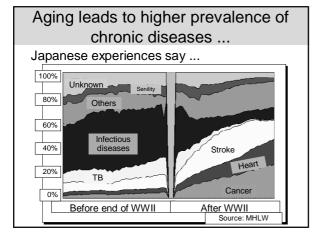


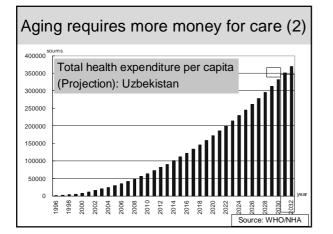
Reinstate MOH Budget (% GDP) in the Level at the Time of Independence

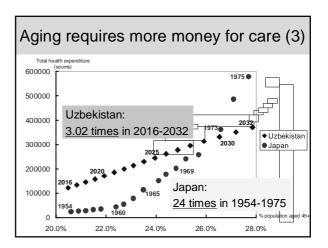
Tashkent, 24 January 2008

Naoki TAKE JICA Study Team Study on Reform of Health Care Services in Navoi (Hosp. Management)







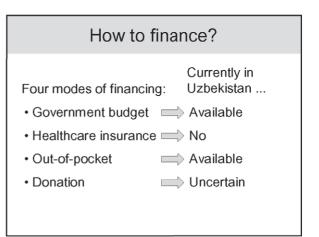


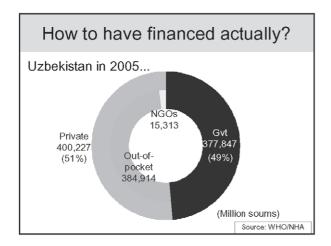
Aging requires more money for care (4)

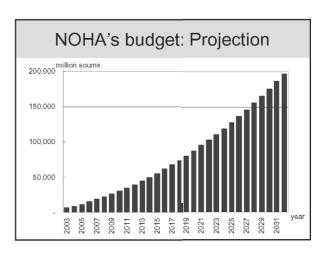
Assumptions for Uzbek calculation:

- Time trends (reflecting inflation) as only a factor
- Technological progress not considered at all

Health expenditures can skyrocket more like Japan if MoH seriously addresses NCD treatment according with new health reform policy.







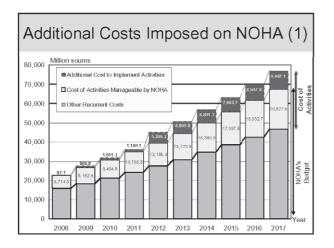
Program for Reform in Navoi

Duration: 10 years (2008-2017)

- 1. Prevention and health promotion
- 2. Diagnosis and treatment process for NCDs
- 3. Health facility
- 4. Medical equipment
- 5. Efficiency of drug supply
- 6. Sanitary conditions of health facilities

Total Costs for Reform in Navoi

		(million soums)	
Components	Investment	Recurrent	
1. Prevention	6,755.2	121,285.0	
2. Dx/Tx NCDs	60.5	817.5	
3. Facility	20,500.0	32,552.1	
4. Equipment	4,789.1	8,343.6	
5. Drug	750.6	9,848.6	
6. Sanitation	141.4	25.4	
Total	32,996.8	172,872.2	



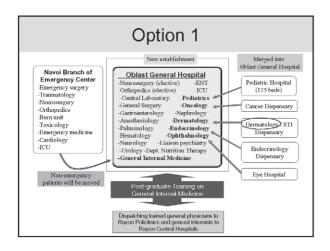
	(million soums)
Components	Costs added
1. Prevention	244.3
2. Dx/Tx NCDs	878.0
3. Facility	32,552.1
4. Equipment	8,390.7
5. Drug	5,199.9
6. Sanitation	26.7

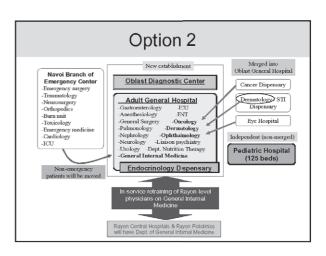
How to deal with additional costs? 1. Seek more efficient system of service provision for containing costs 2. Increase MOH budget more than our projection

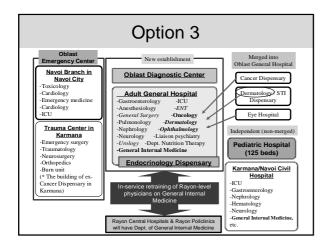
For containing costs ...

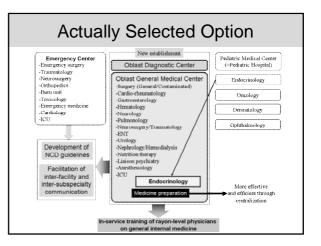
- Prioritize target diseases
- · Focus on disease prevention
- Merge of small-scale dispensaries with Oblast Medical Center/Diagnostic Center

Three Options:

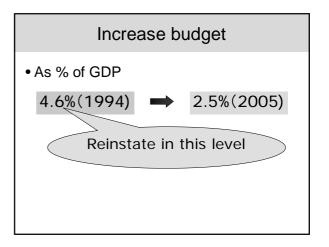




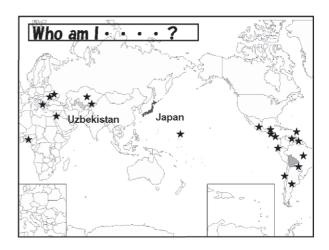


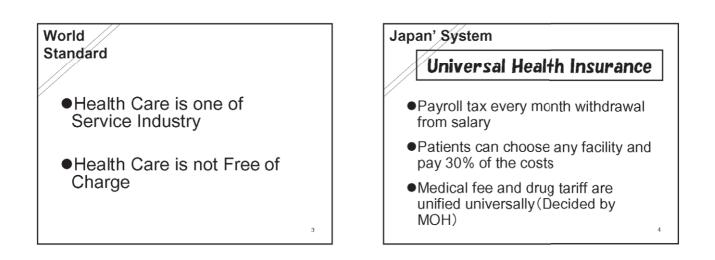


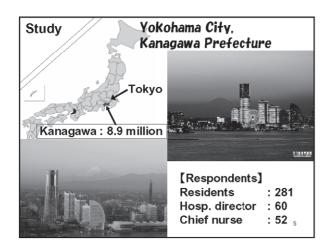
Comparison of Additional Costs						
				(million soums)		
	Invest	Recurrent	Budget	Net		
Option		2012-17	Shifted	Additional Cost		
		(1)	(2)	(1)-(2)		
1	33,220	33,743.8	21,074.0	12,669.8		
2	29,100	29,469.1	13,339.6	16,129.5		
3	21,420	26,419.2	13,339.6	13,079.6		
Selected	20,500	32,552.1	637.0	31,918.1		

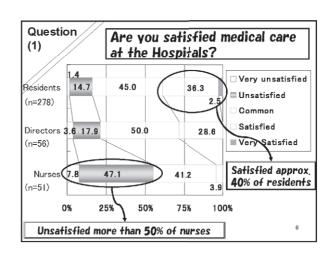


January 24, 2008 Tashkent, Uzbekistan Spirits of Good Service and Health Care -- Topics in Japan --JICA Study Team Naoki MIMURO

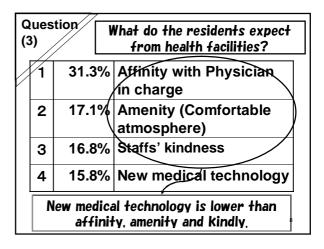


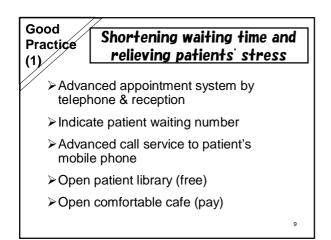


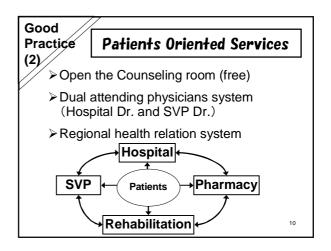


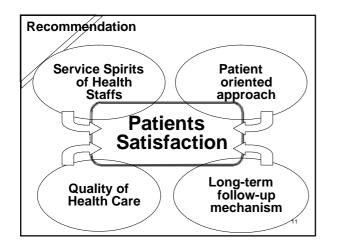


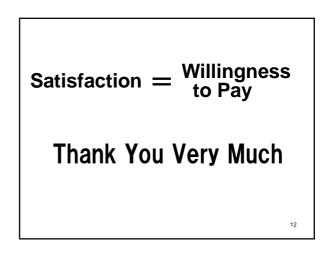
	ຊຸມe 2)	estion	What are Major Reasons of peoples' un-satisfaction?
1	1	71.5%	Long Waiting Time
	2	45.3%	Insufficient Drs' explanation
	3	32.0%	Too much tests & drugs
	4	27.3%	Insufficient health information
	5	26.7%	Low medical skills
		Naiting	time is higher than medical skills ⁷











An Integrated Approach to Adult Health Problems

How to strike a balance between effectiveness and efficiency

Akihiro YOMO, M.D., M.Trop.Paed. JICA Study Team

Navoi Oblast need to strengthen its hospital services

• Diagnostic Center

• Emergency Center

- Adult General Medical Center
- Emergency Center
- Pediatric Hospital
- Maternal Hospital
- Specialized Dispensaries
- Pediatric General Medical Center
 Maternal Hospital
- Iniaternal Hospita
- Specialized Dispensaries

- It's not easy for the oblasts with smaller population to operate many tertiary hospitals.
- The health care system is expected to benefit the people's health (effectiveness) by utilising the limited resources (efficiency).

How to strike a balance between effectiveness and efficiency.

- Prioritize target diseases properly!
- Prevention is often better than cure.
- Optimal tasks are assigned to differentlevel facilities which are functionally linked to each other. (Vertical integration)
- Adopt multidisciplinary approach. (Horizontal integration)

Potentials of vertical integration of health care system

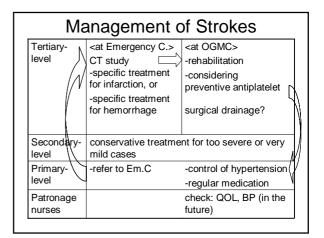
- · Strokes
- Ischemic heart diseases (IHDs), esp. acute myocardial infarction
- Hypertension
- Diabetes mellitus
- Chronic renal diseases, etc.

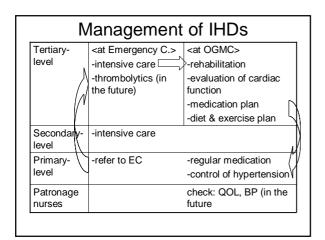
Current management of strokes

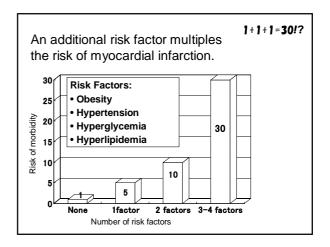
- CT studies are rarely ordered.
- Guessed diagnosis between infarction and hemorrhage
- Empirically selected treatment for infarctions: aspirin, heparin, etc. for hemorrhage: hemostatic drugs. both treatment may be tried on one patient

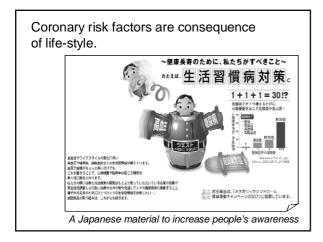
Installation of a CT scanner

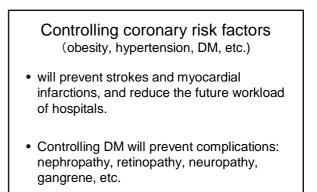
- CT will offer the firm evidence.
- Quickly transfer the patients for CT study!
- Differential diagnosis between infarction and hemorrhage should be confirmed.
 for infarctions: aspirin, heparin, etc.
 for hemorrhage: hemostatic drugs, surgical drainage, etc.

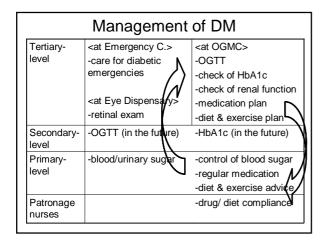


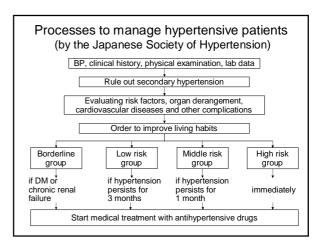




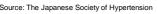








0114	lincation	n by risk	
	Mild hypertension (140~159 /90~99 mmHg)	Moderate hypertension (160~179 /100~109 mmHg)	Severe hypertension (≧180 /≧110 mmHg)
No risk factor	Low risk	Moderate	High
1 or 2 risk factors other than DM	Moderate	Moderate	High
3 or more risk factors DM Organ derangement Cardiovascular dis.	High	High	High



Management of Hypertension <at OGMC> Tertiary-<at Emergency C.> level -management plan for -intensive care for hypertensive crisis high risk patients Secondary--rule out secondary level hypertension -regular medication fo -stratification by risk high risk patients -management plan -control of BP Primary -detecting high BP level -consultation -regular medication -diet & exercise advice Patronage check: BP, drug/ diet compliance nurses

Vertical integration is effective, but not a panacea

- · NCD patients often have multiple health problems: e.x.) myocardial infarction + hypertension + DM + mental depression + impaired exercise capacity
- · Such a patient may require support from cardiologist, endocrinologist, psychiatrist, physiotherapist, etc.
- However, specialists are available only at tertiary-level facilities.

Horizontal integration of health services

- Examples 1) Integrated management of childhood illnesses (IMCI) 2) Integrated management of pregnancy
 - and delivery complications (IMPAC)
- · Integrated management of adult illnesses in Navoi Oblast

Key persons required for the integrated management of adult illnesses

- 1. General physicians for outpatients
 - examine the whole body of patients and refer them to the proper specialists.
 - follow up patients with multiple problems in consultation with specialists.
- 2. General physicians for indoor patients
 - receive the undiagnosed patients who are referred from lower-level facilities.
 - offer the consultation services to surgical patients.
 - fill the gaps of specialists.
- = "hospitalists"

Surgical patients may need supports from a "hospitalist"

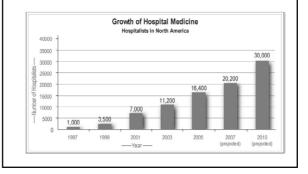
- Pre-operational evaluation
- Control of hypertension
- Control of blood
- glucoseFever workup
- Coma workup
- Post-operational
- consultation due to:
- arrhythmia
- chest pain
- hypotension
 delirium
- anuria
- dyspnea (ruling out
- pulmonary embolism and deep vein thrombosis)
- Coma workup

The "hospitalist"

For patients with common inpatient diagnoses, the "hospitalist" model reduces length of stay and costs.

In Uzbekistan, senior internists who have experiences in a wide range of serious health problems can play the role of hospitalists.

Because hospitalists bring great benefit to hospitals and patients,



Conclusion

- Practical guidelines will be necessary for vertical and horizontal integration of health care system.
- The wisdom of the experienced doctors should be reflected in the guidelines.
- The guidelines should be understood by specialists, generalists and co-medicals.
- Equipment should be installed according to the guidelines.

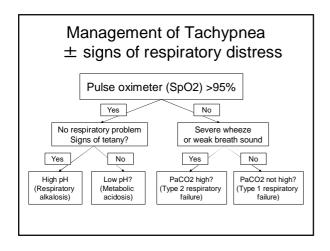


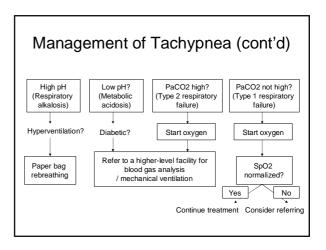
Reference

- an example of tachypnea -
- ARI program (included in IMCI) trains the PHC workers to count the respiratory rate on pneumonia-suspected children.
- Doctors at higher-level facilities should understand the different pathogenesis and pathophysiology of tachypnea.

If an upgraded general physician is working for a secondary-level facility,

- 1) examine the whole body of a tachypneic patient
- 2) make an assessment of respiratory function with the assistance of a pulse oximeter
- make a differential diagnosis between respiratory and non-respiratory problems
- 4) start treatment or refer the patient to a proper specialist.
- General physicians with a broader perspective can cross the barriers between specialties.





16. Basis of Cost Estimation

16 Basis of Cost Estimation

16-1 Expenditure on Health in Navoi and Uzbekistan (for Section 9-3 and Section 12-4)

16-1-1 Data

WHO's estimates on national health accounts in Uzbekistan include total expenditure on health in 1996-2005, consisting of general government expenditure and private expenditure. General government expenditure on health can be identical to the total recurrent budget of MOH, while private expenditure on health is divided into two parts: households' out-of-pocket payments and NGOs' funds. In Uzbekistan most of the private expenditure comes from out-of-pocket.

The percentage of budget allocation from MOH to NOHA is available from the report on preparatory study for the Study in 2005.

16-1-2 Assumptions

It is assumed that change of total, government and private expenditure on health since 2006 will depend only on time trend from 1996-2005 and that other factors like the level of technology and the capacities of health personnel will not influence significantly.

In addition, it is assumed that the magnitude of transition of NOHA's budget will be the same as MOH's at all times and that the percentage of budget allocation from MOH to NOHA since 2006 is the same as the level in 2005.

16-1-3 Estimation

Transition of total, government and private expenditure on health from 1996-2005 can be approximated by the following quadratic functions of time.

Total expenditure on health = $7674.2 x^2 - 178.69 x + 18856$ Government expenditure on health = $4321.3 x^2 - 8268.1 x + 27139$ where x is time (the year 1996 =1, 1997 =2, 1998 =3 ...).

As for the expenditures per capita, the following functions are used.

Total expenditure on health = $261.98 x^2 + 293.81 x + 484.45$ Government expenditure on health = $151.57 x^2 - 190.96 x + 975.07$ where x is time (the year 1996 = 1, 1997 = 2, 1998 = 3 ...).

Private expenditure on health is defined as follows:

Private expenditure on health = Total health expenditure - Government health expenditure

When the number of year defined above is substituted for x, total, government and private expenditure of health since 2008 are projected in the following tables.

Table 1:	: Projection of Health Expenditures in	Uzbekistan since 2008
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10010 10 110			p~							
Unit: Million soums	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total expenditure on health	1 313 473	1 520 498	1 742 871	1 980 592	2 233 662	2 502 080	2 785 847	3 084 962	3 399 426	3 729 238
General government expenditure on health	649 953	758 360	875 410	1 001 102	1 135 437	1 278 414	1 430 034	1 590 297	1 759 202	1 936 750
Private expenditure on health	663 519	762 137	867 461	979 490	1 098 225	1 223 666	1 355 813	1 494 665	1 640 224	1 792 488
	Source: Est	imation a	nd project	ion from 1	national h	ealth acco	unts in Uz	zbekistan	compiled	by WHO

Table 2: Projection of Health Expenditures per capita in Uzbekistan since 2008

0		-		-						
Unit: Soums	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total expenditure on health	48579	55946	63837	72252	81191	90655	100642	111153	122188	133747
General government expenditure on health	24108	28009	32214	36722	41532	46646	52064	57784	63807	70134
Private expenditure on health	24471	27937	31623	35531	39659	44008	48578	53369	58380	63613
				0		1.1		1 1.		

Source: Estimation and projection from national health accounts in Uzbekistan compiled by WHO

Based on the growth of the government expenditure on health shown above, the budget allocation to NOHA is projected below.

Table 3:	Projection of NOHA Budget since 2008
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Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
NOHA Budget (million soums)	22,667.8	26,509.8	30,543.9	34,962.2	39,572.6	44,567.2	49,946.0	55,516.9	61,472.0	67,619.2
Growth of Budget since 2007	18%	38%	59%	82%	106%	132%	160%	189%	220%	252%
					Sour	ce: Estima	tion and p	rojection b	y JICA St	udy Team

16-2 Recurrent Costs for Oblast General Medical Center/Oblast Diagnostic Center in Navoi (for Section 11-2 and Section 11-4)

16-2-1 Data

Data on allocation of NOHA budget to health facilities in the oblast were obtained from NOHA. From the view of similarity of capacity of beds, the budget for Navoi Branch of Emergency Center in 2007 was utilized for estimation of the recurrent costs.

16-2-2 Assumptions

Firstly, to make analysis simple, the Study Team estimates the recurrent cost of the Oblast General Medical Center mixing up with that of the Oblast Diagnostic Center. Both centers are expected to open in 2012.

The expenditure items of the centers are defined as follows:

- Personnel
- Utility
- Maintenance of buildings and facilities
- Maintenance of medical equipment
- Fuels
- Foods
- Drugs and other materials

- Depreciations for buildings and medical equipment
- Other expenses

Currently, there are no items for maintenance of medical equipment or depreciations, and the budgets for them are not allocated. However, it is particularly important to estimate them, considering the future reconstruction of buildings and replacement of medical equipment.

As for cost escalation, it is assumed that the costs of the two centers will increase by the same rates as the budget of NOHA.

16-2-3 Estimation

(1) Number of Beds for Oblast General Medical Center

Calculation of the number of beds for the Oblast General Medical Center at the time of inauguration is based on the numbers of inpatients of the Navoi Branch of Emergency Center and the Oblast Pediatric Hospital (only for Option 1 described in Section 11-2). It is done by the following formula:

Number of beds = (Number of inpatients * ALOS) / BOR

Target ALOS and BOR at the Oblast General Medical Center are defined as 7 days and 328.5 days (= Japanese BOR 90% * 365 days) respectively.

Under Option 1, the Oblast General Medical Center would receive both adults and children. Rough estimation of the inpatients in 2007 is 12,000 for the Emergency Center and 6,000 for the Pediatric Hospital. Given the annual growth of population in Uzbekistan 1.8%, the number of inpatients at the Medical Center in 2011 is estimated:

 $[\{(12,000 + 6000) * 1.018^5\} * 7] / 328.5 = 419$

In case of the other options, the Medical Center would receive only adult patients. Given the annual growth of population aged 15 years and over 2%, the number of inpatients is as follows:

$$[(12,000 * 1.02^5) * 7] / 328.5 = 282$$

(2) Number of Personnel for Medical Center and Diagnostic Center

In Uzbekistan, allocation of health personnel is ruled by the national standard enacted in 1997. Roughly one doctor, three nurses/feldshers/technicians and one other staff are stationed at a department with 15-20 beds. Based on the assumption, the numbers of personnel required for the two centers are estimated below.

	Option 1	Option 2	Option 3	Option Selected
Oblast General Medical Center				
Doctors	40	29	29	25
Nurses/Feldshers/Technicians	114	84	84	72
Others	52	38	38	30
Subtotal	206	151	151	127
Oblast Diagnostic Center				
Doctors	14	14	14	14
Nurses/Feldshers/Technicians	20	20	20	20
Others	5	5	5	5
Subtotal	39	39	39	39
Grand total	245	190	190	166

Table 4: Numbers of Staffs for General Medical Center and Diagnostic Center

Source: Estimation by JICA Study Team

(2) Investment Cost for Construction of Buildings and Procurement of Equipment

According to the information from the Sanitary Epidemiology Station in Navoi Oblast, currently the unit cost for construction is around 650,000 soums per square meter. However, current situation of skyrocketing prices has to be taken into consideration. Assuming the annual inflation is 25%, the unit cost will soar to roughly 1,280,000 soums in 2010, the year of construction.

As for the cost of medical equipment, it is estimated based on the needs identified by the Study Team.

The result of estimation is as follows. Under Option 1, the cost for procurement is lower since the Medical Center would utilize some of equipment currently existing at the Pediatric Hospital. Concerning the selected option, the costs are estimated by the Uzbek side.

		Newly constructed m ²	Unit cost (1,000 cym)	Total cost (1,000 cym)
Option 1	Construction Procurement of medical equipment	24,000	1,280	30,720,000 2,500,000
Option 1: To	tal			33,220,000
Option 2	Construction Procurement of medical equipment	20,000	1,280	25,600,000 3,500,000
Option 2: To	tal			29,100,000
Option 3	Construction Procurement of medical equipment	14,000	1,280	17,920,000 3,500,000
Option 3: To	tal			21,420,000
Option	Construction			12,500,000
Selected	Procurement of medical equipment			8,000,000
Option Selec	ted: Total			20,500,000

 Table 5:
 Estimation of Investment Cost by Option

(3) Recurrent Cost

i) Personnel

Based on the current situation at the Emergency Center, the monthly salaries of doctors, nurses and other staffs are defined as 364,000 soums, 218,000 soums and 109,000 soums respectively. Given

Source: Estimation by JICA Study Team

the number of personnel shown in Table 4, the annual cost of personnel for the two centers in 2012 is calculated as follows:

Option 1	Numbers		Total	Option 2	Numbers		Total
		(1,000 soums)	(1,000 soums)			(1,000 soums)	(1,000 soums)
Doctors	54	4,944	266,976	Doctors	43	4,944	212,592
Nurses etc.	134	2,966	397,498	Nurses etc.	104	2,966	308,506
Others	57	1,483	84,542	Others	43	1,483	63,778
Total			749,016	Total			584,875
Option 3	Numbers	Annual Salaries	Total	Option	Numbers	Annual Salaries	Total
		(1,000 soums)	(1,000 soums)	Selected		(1,000 soums)	(1,000 soums)
Doctors	43	4,944	212,592	Doctors	39	4,944	192,816
Nurses etc.	104	2,966	308,506	Nurses etc.	92	2,966	272,909
Others	43	1,483	63,778	Others	35	1,483	51,912
Total			584,875	Total			517,637

Table 6:Cost of Personnel in 2012 by Option

Source: Estimation by JICA Study Team

ii) Utility, Fuels, Foods and Drugs and Other Materials

Judging from the capacity of beds, the costs of utility, fuels and drugs in 2012 are defined as double of the Emergency Center for Option 1, and as 40% more than the Emergency Center for the other options.

As for the cost of drugs and other materials in 2011, it is three times and 80% more than the Emergency Center for Option 1 and the others respectively.

iii) Maintenance

It is desirable to appropriate 2% of the construction cost and 10% of the equipment procurement cost as the annual budget for maintenance.

iv) Depreciations

The Study Team estimated the annual cost for depreciations with the methods used in Japan. It is said that the life of hospital buildings is 39 years and that of medical equipment is roughly 5 years. The annual rates of depreciation are 2.6% for the hospital buildings and 16.6% for the medical equipment. And the formula is as follows:

Annual depreciations = Cost of construction or equipment * 0.9 * Rates of depreciations

Given these assumptions, the costs of depreciations are estimated:

		(1,000 soums)
Option 1	Buildings	718,848
	Medical equipment	373,500
Option 1 T	otal	1,092,348
Option 2	Buildings	599,040
	Medical equipment	522,900
Option 2 T	otal	1,121,940
Option 3	Buildings	419,328
	Medical equipment	522,900
Option 3 T	otal	942,228
Option	Buildings	292,500
Selected	Medical equipment	1,195,200
Option Se	lected Total	1,487,700

Table 7: Annual Cost of Depreciations in 2012 by Option

Source: Estimation by JICA Study Team

v) Other Expenses

It is defined as 7% of the total recurrent cost.