

# **Result of experimental survey of reproductive health facilities in Nghe An province**

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## **1. Executive summary**

The research is an experimental survey on the JICA reproductive health project in Nghe An province, Viet Nam. Research question is: what is the result of the efforts to invest in reproductive health facilities in Nghe An province, Viet Nam? The result of the survey shows that the situation of facilities in 2005 is better than the situation of facilities in 2001. The project has good impact on reproductive health situation in Nghe An province.

## **2. Introduction**

We provide background understanding of the JICA reproductive health project, where the experimental survey was conducted.

Nghe An province locates in the north of Vietnam, about 300 km from Hanoi with the capital of Vinh City. The area of the province is 16,487 km<sup>2</sup> and the population is about 3 million, living in about 600,000 households. The territory includes mountains, plains, and coastal lines. It is mainly agricultural province with 17 districts combining 466 communes. Main agricultural products are rice, potato, peanuts, oranges, etc. The Reproductive Health Project is the first Japan's GO-NGO partnership project in Vietnam, handled by JOICFP – a Japan based international NGO on population and RH and JICA. Phase 1 is from 1996 to 2000. Phase 2 is from 2000 to 2005.

Phase 1 is completed successfully. The project purpose is to improve the reproductive health status of women in reproductive age with special focus on commune women in Nghe An province. Project consists of 244 (among 264) communes of 8 (among 19 districts of Nghe An province). It is indicated in the PDM that: initial JICA's commitment to the reform is 940,000USD. The ODA fund includes 1. Experts: Long term including Chief Advisor, Coordinator, Nurse/Midwife; Short term including reproductive health expert, health service management, IEC, etc; 2. Equipment: yen 60~90million/ 3 years (approximately US\$500,000~US\$800,000/ 3 years); 3. Training: Counterpart training in Japan 7~9 for three years, local training yen 15million for three years (approximately US\$130,000~140,000 for three years). Total estimation written in PDM is approximately US\$ 1,670,000.

Phase 2 extends to all 19 districts of Nghe An province with a similar input of about 2million USD. Main achievements of the project can be summarized as follow: 1. Steering committee at all levels are established and functioned regularly and continuously. 2. Safe and hygienic delivery is promoted at commune level including: prenatal care at commune level is improved; delivery care at commune level is improved; postnatal care at commune level is improved;

essential medical equipment is utilized at commune health centers; four facilities of CHC (delivery room, latrine, well and shower room) are improved. 3. Monitoring capacity of MCH/FP centre and the selected district health centres is improved. 4. Number of abortion conducted at MCH/FP center and the selected districts is reduced. 5. Capacity for RTI detection and the development of prevention strategy is improved at MCH/FP centre. 6. Quality of IEC of MCH/FP centre and the selected districts, women union and district health centres, particularly, for reproductive health promotion is improved. 7. Quality of HMIS at provincial health service, MCH/FP Centre and the selected districts is improved.

JICA team conducted the monitoring and evaluation work, in which the author was a member. The Population Council, particularly, Doctor Nhan and Doctor Mai designed the reproductive health survey in Nghe An province. In 2001 the baseline survey on the reproductive health services provided by the public sector in Nghe An province was conducted. The products of this survey included the raw data 2001, the database 2001 and the report “Baseline survey on the reproductive health services provided by the public sector in Nghe An province” of Doctor Vu Quy Nhan, Doctor Le Thi Phuong Mai, and Nguyen Thi Thom. The result of the survey was much utilized by the project managers to improve the performance of the project. In 2005 the final survey was conducted in the same project area and the same variables. The purpose was to observe the quality of reproductive health services in the reproductive health facilities. The variables were taken from the output design of the project and were utilized to fill the completion report in all items of the project framework: goal, objective, output, activities, verifiable indicators,

### **3. Objective of the experimental survey**

It is to evaluate if there is improvement in reproductive health care services based on the observation at facilities from 2001 to 2005.

### **4. Methodology of the experimental survey**

To evaluate the impact of projects, experimental survey method is used to compare the situation of the targeted area at different time of the project, particularly in this project, in 2001 and in 2005.

The structured interview (facility inventory) was designed with the following questions, which became variables in the analysis. There are some changes in variable arrangement in 2001 and 2005 and there are some variables, which show no improvement when we do in practice. Those variables appeared in the design but not here, in the report. The selected variables, which show the evidence of the improvement of the indicators are listed here.

PERCENTAGE FACILITIES, WHICH HAVE A SIGN OR POSTER ADVERTISING THE AVAILABILITY OF SERVICES

PERCENTAGE FACILITIES, WHICH HAVE SPECIALTIES INCLUDED IN SIGNBOARD?  
OBSTETRIC/ GYN, MIDWIFERY

PERCENTAGE FACILITIES, WHICH HAVE WAITING SEATS FOR CLIENTS: NONE; YES, NOT ENOUGH; YES, ENOUGH

PERCENTAGE FACILITIES, WHICH HAVE WORKING TOILET/LATRINE AVAILABLE FOR CLIENTS: YES, USING; YES, NOT USE; NO

PERCENTAGE FACILITIES, WHICH HAVE DESIGNED AREA FOR EXAMINATION

PERCENTAGE FACILITIES, WHICH HAVE DESIGNED AREA FOR COUNSELING

PERCENTAGE FACILITIES, WHICH HAVE PRIVACY AREA WHERE PEOPLE CANNOT SEE FOR: EXAMINATION, COUNSELING

PERCENTAGE FACILITIES, WHICH HAVE PRIVACY AREA WHERE PEOPLE CAN NOT HEAR FOR: EXAMINATION, COUNSELING

PERCENTAGE FACILITIES, WHICH HAVE CLEAN EXAMINATION AREA

PERCENTAGE FACILITIES, WHICH HAVE AN ADEQUATE SOURCE OF LIGHT IN THE EXAMINATION AREA (“SOURCE” IS ANY SOURCE OF LIGHT)

PERCENTAGE FACILITIES, WHICH HAVE AN ADEQUATE AMOUNT OF SAFE WATER AVAILABLE IN THE EXAMINATION AREA

PERCENTAGE FACILITIES, WHICH HAVE RECOVERY ROOM

PERCENTAGE FACILITIES, WHICH HAVE CLEAN RECOVERY ROOM

DELIVERY ROOM

PERCENTAGE FACILITIES, WHICH IS WELL – VENTILATED

PERCENTAGE FACILITIES, WHICH HAVE NO DIRT COMING THROUGH; THE WINDOW HAVE A SCREEN/CURTAIN; THE CEILING LAMPS WORK; THE SPOT LIGHTS WORK; LAMP/LANTERN TO USE WHEN THE CURRENT IS OUT

PERCENTAGE FACILITIES, WHICH HAVE A CONTAINER OF ALREADY BOILED WATER; A CONTAINER OF ALREADY BOILED WATER WITH A WOODEN HAND LONGER THAN 20CM; THE CLEAN FLOOR; A CABINET FOR EQUIPMENT

PERCENTAGE FACILITIES, WHICH HAVE OXYTOCIN OR ERGOMETRIN; A KIT FOR NEONATE RESUSCITATION (CATHETER WITH 4-5 MM IN DIAMETER 20 ML BULB SERINGE FOR SUCTIONING INFANT, STERILE COMPRESSES, TWO RESUSCITATING BALLOON; RESUSCITATION BOX IS STORED IN A SEPARATE STERILE TRAY; CLEAN, STERILE CLOTH FOR COVERING INSTRUMENT; BOILED SOAP IN CLOSED BOX; USED WATER IS DRAINED INTO A CLOSED TANK OUTSIDE LABOR ROOM;

PERCENTAGE OF DELIVERY ROOM FLOOR, PAVED WITH GLAZED BRICK;

PERCENTAGE OF DELIVERY ROOM WALL, COATED WITH WHITE- WASH AND PAVED WITH GLAZED BRICK AT 1.2 M HIGH

PERCENTAGE OF DELIVERY ROOM CEILING, WHICH HAS NO CEILING, OR ONLY BRICK ROOF; CEILING MADE OF BAMBOOMAT/PLYWOOD/RAIN PROOF CLOTH; OR CEMENT CEILING

WHAT ARE IEC MATERIAL AVAILABLE IN THIS FACILITY? (**OBS**)

PERCENTAGE OF FACILITIES WITH MATERIAL ON ANTENATAL CARE/DELIVERY

PERCENTAGE OF FACILITIES WITH MATERIAL ON POST-PARTUM CARE

PERCENTAGE OF FACILITIES WITH MATERIAL ON FAMILY PLANNING

PERCENTAGE OF FACILITIES WITH MATERIAL ON BREASTFEEDING

PERCENTAGE OF FACILITIES WITH MATERIAL ON CHILDWELFARE  
(IMMUNIZATION, CHILD GROWTH MONITORING)

PERCENTAGE OF FACILITIES WITH MATERIAL ON MOTHER NUTRITION

PERCENTAGE OF FACILITIES WITH MATERIAL ON RTI/STD PREVENTION

PERCENTAGE OF FACILITIES WITH MATERIAL ON AIDS PREVENTION

PERCENTAGE OF FACILITIES WITH SUFFICIENT AMOUNT OF IEC MATERIAL

PERCENTAGE OF FACILITIES, IN WHICH TELEPHONE SERVICE IS AVAIL ABLE IN  
THE FACILITY

PERCENTAGE OF FACILITIES, IN WHICH ELECTRICITY POWER FREQUENTLY  
AVAILABLE IN THE FACILITY

PERCENTAGE OF FACILITIES, IN WHICH THE PRIMARY SOURCE OF WATER IN THE  
FACILITY IS PIPED; OR DEEP WELL; OR SHALLOW WELL; OR RAIN COLLECTION;  
OR RIVER/ CANAL/ POND

WHICH LAB TESTS DO YOU PERFORM HERE OR REFER?

PERCENTAGE OF FACILITIES, IN WHICH VAGINAL DISCHARGE SMEAR (WET  
MOUNT) IS OFFERED

PERCENTAGE OF FACILITIES, IN WHICH GRAM STAIN IS OFFERED

PERCENTAGE OF FACILITIES, IN WHICH PREGNANCY TEST IS OFFERED

PERCENTAGE OF FACILITIES, IN WHICH COMMON BLOOD TESTS IS OFFERED

PERCENTAGE OF FACILITIES, IN WHICH URINE ANALYSIS IS OFFERED

WHICH MEDICINE ARE AVAILABLE

For **Treatment of toxemia eclampsia**

PERCENTAGE OF FACILITIES, IN WHICH THERE IS DIAZEPAM; MAGNESIUM  
SULFATE; DOPEGYT; HYPOTHIAZID

For **Pain relief/killer**

PERCENTAGE OF FACILITIES, IN WHICH THERE IS LIDOCAIN/XYLOCAIN;  
PARACETAMOL

For **Anti-spasmodique**

PERCENTAGE OF FACILITIES, IN WHICH THERE IS SPASMAVERINE, PAPAVERIN

For **allergia and shock treatment**

PERCENTAGE OF FACILITIES, IN WHICH THERE IS EPINEPHRIN/ADRENALINE;  
PROMETHAZINE

PERCENTAGE OF FACILITIES, IN WHICH THERE IS **Tetanic Toxoid; Agyrol – eye drop;  
NitratAg – eye drop, Anti-biotics**

**For Infusion solutions**

PERCENTAGE OF FACILITIES, IN WHICH THERE IS CLORUA NATRI 9‰; GLUCOZA

**For Anti-fungal**

PERCENTAGE OF FACILITIES, IN WHICH THERE IS NYSTATIN; CLOTRIMAZOLE

PERCENTAGE OF FACILITIES, IN WHICH THERE IS OXYTOCIN

SITUATION OF REPRODUCTIVE HEALTH FACILITIES:

PERCENTAGE OF FACILITIES, IN WHICH THERE ARE FOLLOWING EQUIPMENT:

STETHOSCOPE; OBSTETRICAL STETHOSCOPE; (TAPE METER) MEASURING TAPE;  
PELVIC METER; DISPOSAL SYRINGE; RE-USABLE SYRINGE; DISPOSABLE GLOVES;  
RE-USABLE GLOVES; SCALE FOR CHILDREN; SCALE FOR ADULTS; BLOOD  
PRESSURE GAUGE; KAMAN SYRINGE; DOPPLER FOR FETAL HEART RATE;  
DELIVERY KIT; GYNECOLOGIC EXAMINATION SET; Fooc xep; IUD KIT; MR KIT;  
DOUBLE VALVE KAMAN SYRINGE FOR LATER ABORTION; ABORTION KIT;  
EPISOTOMY KIT; CESAREAN SECTION KIT; STERILIZED BOILING INSTRUMENT  
TYPE; AUTOCLAVE; DRY HEAT STERILIZER; LAMP FOR OPERATION; SPOT LIGHT  
LAMP; VACCUM ASPIRATOR (ELECTRIC); X-RAY MACHINE; MACHINE FOR  
ANESTHESIA; CATHETER FOR SUCTIONING BABY; AMBOU BALLOON; STERILE  
THREAD FOR UMBILICAL CORD; TRAY FOR EQUIPMENT; DRUM FOR COTTON  
AND COMPRESS; CONTAINER FOR MEDICAL INSTRUMENTS; INCUBATOR FOR  
NEW BORN; DELIVERY TABLE; GYNECOLOGICAL EXAM TABLE; OPERATING  
TABLE

PERCENTAGE OF FACILITIES, IN WHICH THERE IS FREQUENT MEANS SUCH AS  
CLEAN DELIVERY PACK (KIT); IRON TABLET (BOTTLE, TABLET)

PERCENTAGE OF FACILITIES, IN WHICH THE LOG BOOK IS WELL ORDERED;  
PARTIALLY ORDERED, STILL USABLE; DISORDERED, NOT USABLE

**5. Analysis result of the experimental survey on reproductive health in Nghe An province**

The comparison shows that 2005 performance is better than 2001 performance

**5.1. There is guidance table on services in facility**

Code 2001	Code 2005	Indicator	2001 (%)	2005 (%)
C09a	C051	There is outside	18.2	21.1
C09b	C052	There is outside and inside	15.2	39.5
C09c	C053	There is no guidance	33.3	7.9

**5.2. There is waiting place**

Code 2001	Code 2005		2001	2005
C111	C071	There is no place	39.4	18.4
C112	C072	Not enough	33.3	34.2
C113	C073	There is waiting place	27.3	47.4

**5.3. There is usable toilet**

Code 2001	Code 2005		2001	2005
C121	C081	There is toilet	63.6	89.5
C122	C082	Toilet is locked	9.1	10.5
C123	C083	No	27.3	0

**5.4. There is private place for consulting**

Code 2001	Code 2005		2001	2005
C14	C12	Private place for consulting	39.4	55.3
C15a	C131	Other people cannot see while examination	86.4	92.1
C15b	C1322	Other people cannot see while consulting	33.3	63.2
C17	C15	Clean examination area	90.9	100
C18	C16	Enough light	80.3	92.1
C19	C17	Enough clean water in examination area	59.1	86.8
C20	C18	There is place for after service	75.8	76.3
C21	C19	Place for after service is clean	86.0	89.7

**5.5. The situation of delivery room**

Code 2001	Code 2005	DELIVERY ROOM	2001	2005
C22	C20			
a)	1	IT IS WELL – VENTILATED	86.4	100
b)	2	NO DIRT COME THROUGH	66.7	76.3
c)	3	WINDOWS HAVE A SCREEN/CURTAIN	54.5	86.8
d)	4	CEILING LAMPS WORK	71.2	94.7
e)	5	SPOT LIGHTS WORK	34.8	81.6
f)	6	THERE IS LAMP/LANTERN TO USE WHEN THE CURRENT IS OUT	36.4	76.3

g)	7	THERE IS A CONTAINER OF ALREADY BOILED WATER	69.7	94.7
h)	8	THERE IS A CONTAINER OF ALREADY BOILED WATER WITH A WOODEN HAND LONGER THAN 20CM	42.4	86.8
i)	9	THE FLOOR IS CLEAN	74.2	100
j)	10	THERE IS A CABINET FOR EQUIPMENT	60.6	94.7
k)	11	THERE IS OXYTOCIN OR ERGOMETRIN	83.3	97.4
l)	12	THERE IS A KIT FOR NEONATE RESUSCITATION (CATHETER WITH 4-5 MM IN DIAMETER 20 ML BULB SERINGE FOR SUCTIONING INFANT, STERILE COMPRESSES, TWO RESUSCITATING BALLOON	31.8	84.2
m)	13	RESUSCITATION BOX IS STORED IN A SEPARATE STERILE TRAY	18.2	78.9
n)	14	CLEAN, STERILE CLOTH FOR COVERING INSTRUMENT	39.4	71.1
o)	15	BOILED SOAP IN CLOSED BOX	39.4	71.1
p)	16	USED WATER IS DRAINED INTO A CLOSED TANK OUTSIDE LABOR ROOM	21.2	73.7
C23	C21	DELIVERY ROOM FLOOR PAVED WITH GLAZED BRICK	42.4	100
C24	C22	DELIVERY ROOM WALL PAVED WITH GLAZED BRICK AT 1.2 M HIGH	37.9	92.1
C25a	C231	DELIVERY ROOM CEILING NO CEILING, ONLY BRICK ROOF	18.2	13.2
C25b	C232	DELIVERY ROOM CEILING MADE OF BAMBOOMAT/PLYWOOD/RAIN PROOF CLOTH	57.6	78.9

### 5.6. IEC

D27d	D254	Material on breast feeding	80.3	94.7
D27e	D255	Child program	83.3	86.8
D27f	D256	Mother nutrition	83.3	92.1
D29a	D271	Enough IEC materials	9.1	31.6
D29b	D272	Not enough IEC materials	75.8	60.5
D29c	D293	No IEC materials	15.2	7.9

### 5.7. Facility situation

D30aa	D281	Telephone operates regularly	27.3	86.8
D30ab	D282	Telephone does not operate regularly	3.0	0
D30ac	D283	No telephone	69.7	13.2
D30ba	D291	Regular electricity	78.8	92.1
D30bb	D292	Not regular electricity	7.6	5.3
D30bc	D293	No electricity	13.6	2.6
D30ca	D301	Supplied water	7.6	34.2
D30cb	D302	Pumped well	12.1	23.7
D30cc	D303	Natural well	47.0	21.1
D30cd	D304	Rain water	25.8	7.9

### 5.8. Available labs

D31a	D311	VAGINAL DISCHARGE SMEAR (WET MOUNT)	6.1	31.6
D31b	D312	GRAM STAIN	3.0	26.3
D31c	D313	PREGNANCY TEST	56.1	73.7
D31d	D314	COMMON BLOOD TESTS	22.7	31.6
D31e	D315	URINE ANALYSIS	22.7	68.4

### 5.9. Services offered

D34a	D341	FP COUNSELING	97	100
D34b	D342	FP SERVICES	100	100
D34c	D343	MENSTRUAL REGULATION/ ABORTION (INCLUDING MANAGEMENT OF ABORTION COMPLICATION)	18.2	34.2
D34d	D344	ANTENATAL CARE (including delivery)	98.5	100
D34e	D345	POSTPARTUM CARE	95.5	94.7
D34f	D346	ASSISTED BIRTH (DELIVERY WITH FOOXEP DELIVERY BY VACUUM EXTRACTOR)	13.6	18.4
D34g	D347	PERFORMING SURGICAL GYNECOLOGICAL OPERATION/ PROCEDURES	16.7	28.9
D34h	D348	GYNECOLOGICAL EXAMINATION/CARE	97	100
D34i	D349	OBSTETRIC COMPLICATION	68.2	78.9
D34j	D3410	STD/RTI DIAGNOSIS & TREATMENT	86.4	68.4

D34k	D3411	STD/RTI COUNSELING	87.9	78.9
D34l	D3412	HIV/AIDS TESTING	6.1	21.1
D34m	D3413	HIV/AIDS COUNSELING	71.2	73.7
D34n	D3414	ULTRASOUND DIAGNOSTIC	12.1	21.1
D34o	D3415	CHILD Care	93.9	92.1

### 5.10. Medicine used

<b>D381</b>	<b>D381</b>	<b>Treatment of toxemia eclampsia</b>		
a)	1	Diazepam	53	61.5
b)	2	Magnesium sulfate	27.3	30.8
c)	3	Dopegyt	0	42.3
d)	4	Hypothiazid	60.6	50
<b>2</b>	<b>2</b>	<b>Pain relief/killer</b>		
a)	1	Lidocain/xylocain	71.2	84.6
b)	2	Paracetamol	100	96.2
<b>3.</b>	<b>3</b>	<b>Anti-spasmodique</b>		
a)	1	Spasmaverine	6.1	19.2
b)	2	Papaverin	93.9	96.2
<b>4.</b>	<b>4</b>	<b>For allergia and shock treatment</b>		
a)	1	Epinephrin/Adrenaline	78.8	92.3
<b>6</b>	<b>6</b>	<b>Agyrol – eye drop</b>	<b>15.2</b>	<b>15.4</b>
<b>7</b>	<b>7</b>	<b>NitratAg – eye drop</b>	<b>1.5</b>	<b>3.8</b>
<b>8</b>	<b>8</b>	<b>Infusion solutions</b>		
a)	1	Clorua Natri 9%o	78.8	84.6
b)	2	Glucoza	93.9	96.2

### 5.11. Equipment of facility

D401a	D391	STETHOSCOPE	100	100
11	3	BLOOD PRESSURE GAUGE	98.5	100
12	4	KAMAN SYRINGE	24.2	84.2

18	8	MR KIT	21.2	68.4
32	17	AMBOU BALLOON	22.7	73.7
37	18	INCUBATOR FOR NEW BORN	3.0	15.8
D41a	D41a1	Clean delivery pack	22.7	36.8
D41b	D41a2	Iron tablet	42.4	50

The conclusion is that there is improvement in all indicators of the reproductive health facilities in the argeted area.

### **Bibliography**

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