



REPORT OF OCULOPLASTY AND D.C.R MISSION

**Oudomxay Provincial Hospital
Oudomxay Province, Lao PDR.**

23-24 December, 2011

**Oudomxay Provincial Hospital
In Cooperation with:**

**Mettapracharak Hospital
Nakornprathom Province, Thailand
and
Lao Rehabilitation Foundation (LRF), USA**



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30 December, 2011

Abstract

Title: Oculoplasty and DCR Mission, December 2011, Oudomxay Hospital, Lao PDR.

Oversight Units: Oudomxay provincial public health department, provincial hospital and eye unit.

Site: Oudomxay provincial hospital

Mission Duration: This mission was a two day mission, 23-24 December, 2011.

Actual Budget: \$4,610 (four thousand six hundred and ten USD)

Actual budget funding:

- 3 Specialist surgeons from Thailand: \$3,800
- Lao Rehabilitation Foundation: \$580
- Lao doctor: \$230

Objective: To decrease the prevalence of blindness by repairing severe ectropion of the eyelid and the training of a Lao ophthalmologist in the latest technologies of eyelid surgery and DCR (dacryocystorhinostomy).

Methods: The Lao team and local staff from Oudomxay provincial hospital worked together with Thai experts to treat patients with eyelid diseases, lacrimal duct obstruction, and eyelid cysts. Services were free of charge for all patients. Examination and surgery was performed by Thai specialists and a Lao ophthalmologist with manual and automated equipment. Treatment was provided with the best medicine available and proper operating procedures.

Result: A total of **23** patients (Female: 07) were examined. Surgery was performed on 12 cases (Female:6) which included 3 severe ectropions, 4 ptosis / blepharochamosis, 2 eyelid dermoid cysts, 2 lacrimals duct obstruction and 1 scar lateral cantus.

Conclusion: This mission was important for the treatment and prevention of blindness in Lao people and particularly for those living in poverty. Training was provided and improved technologies were introduced to a Lao ophthalmologist in the areas of eyelid surgery and DCR.

PREFACE

The future of eye care, visual disability and blindness are critical public health concerns. Eye diseases create significant pain, irreversible damage and innumerable hardships for the concerned persons, both physically and mentally. Poor healthcare contributes to the stagnation of economic development and social affairs of the country. This is especially true in the northern provinces of Laos, such as Oudomxay province.

Eyelid disease such as ptosis, ectropion, and scar tractional eyelid are the cause of visual disability and blindness. Many cases go untreated and this is especially true in remote areas. Laos has limited expertise in this specialty which includes only 18 ophthalmologists, 11 basic eye doctors and no subspecialists. In addition, a lack of government funds allocated to developing the skills of Lao ophthalmologists contributes to an inability to provide proper care for the many patients who are waiting for help.

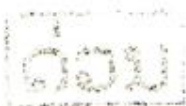
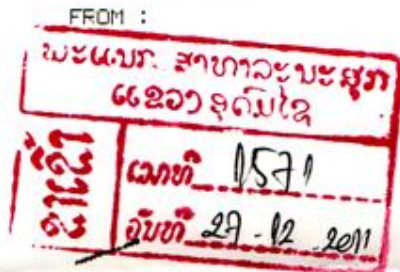
This mission provided help with the treatment and prevention of blindness in Laos. It decreased the number of people who would otherwise suffer from blindness in the remote areas of Northern Laos. It also provided valuable education to a Lao ophthalmologist of the Oudomxay eye unit.

On behalf of Lao public health and the Lao people (especially in the 4 Northern provinces of Phongsaly, LuangNamtha, Oudomxay and Boke) we would like to thank the three specialists from Thailand who volunteered their time, hard work, and support to help Lao patients and who provided training and technical expertise in eyelid surgery and DCR to the Lao ophthalmologist on this oculoplasty mission: Dr. Nattawut WANUMKARNG, Dr. Ms. Aree NIMITVONGSAKUL and Ms. Nareerat KASEMSOOK. Our deepest gratitude also goes to Lao Rehabilitation Foundation, who provides ongoing funding and support for the health care of Lao people in remote areas suffering from poverty. Special thanks to Dr. Janssens, LRF's president for his help in caring for Bounpheng (who was burned when struck by lightning) beginning in 2006 until present. Thank you to the Fred Hollows Foundation for providing a 4WD pick up for this mission. With many thanks to the Lao team, the official organizations, the Ministry of Health, and the Ministry of Foreign Affairs for their partnership in this mission.

We look forward to your continued cooperation in helping the people of Laos.

Warmest Regards,

Phetsamone Indara, M.D
Ophthalmologist, head of Oudomxay Eye Unit
Responsibility Eye Care in 4 Northern Provinces of Laos



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2011/12/29

ສາທາລະນະລັດ ປະຊາທິປະໄຕ ປະຊາຊົນລາວ

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ນະຄອນຫລວງວຽງຈັນ, ວັນທີ 20 ທັນວາ 2011

ໃບແຈ້ງການ

ຮຽນ: ທ່ານ ລັດຖະມົນຕີວ່າການກະຊວງສາທາລະນະສຸກ

ທີ່ນະຄອນຫລວງວຽງຈັນ

ເລື່ອງ: ອະນຸມັດໃຫ້ທຶນງານແພດ ຈາກໂຮງໝໍເມດຕາປະຊາຮັກ ແຫ່ງຣາຊະອະນາຈັກ
ໄທ ເຂົ້າມາບໍລິການຜ່າຕັດແປງໜັງຕາ ແລະ ຮູນຕາຕັ້ງ ທີ່ໂຮງໝໍແຂວງ
ອຸດົມໄຊ.

-ອີງຕາມໜັງສືສະເໜີຂອງ ກະຊວງສາທາລະນະສຸກ ສະບັບເລກທີ 1122/ກຊ.ຫກ, ລົງວັນທີ
20 ທັນວາ 2011.

ກະຊວງການຕ່າງປະເທດ ຂໍຖືເປັນກຽດແຈ້ງມາຍັງທ່ານຊາບວ່າ: ທັນຕາມອະນຸມັດໃຫ້ທຶນງານແພດ
ຈາກໂຮງໝໍເມດຕາປະຊາຮັກ ແຫ່ງຣາຊະອະນາຈັກໄທ ເຂົ້າມາບໍລິການຜ່າຕັດແປງໜັງຕາ ແລະ ຮູນຕາຕັ້ງ
ຕັ້ງແຕ່ວັນທີ 13 ກໍລະນີ ຮ່ວມກັບ ພະແນກສາທາລະນະສຸກແຂວງອຸດົມໄຊ ໃນລະຫວ່າງວັນທີ 22 - 23
ທັນວາ 2011, ໂດຍບໍ່ໄດ້ເສຍຄ່າໃຊ້ຈ່າຍໃນການບໍລິການ ແລະ ປິ່ນປົວ, ແຕ່ຕ້ອງມີການຈັດຕັ້ງຄຸ້ມຄອງ
ກັນຮັກແນ່.

ສຳລັບຄ່າໃຊ້ຈ່າຍຕ່າງໆໃນການເຄື່ອນໄຫວກິດຈະກຳວຽກງານຕົວຈິງ ແມ່ນເປັນພາລະຂອງທຶນ
ງານແພດ ຈາກໂຮງໝໍເມດຕາປະຊາຮັກ ແຫ່ງຣາຊະອະນາຈັກໄທ ເປັນຜູ້ຮັບຜິດຊອບທັງໝົດ.

ດັ່ງນັ້ນ, ຈຶ່ງຂໍແຈ້ງມາຍັງທ່ານ ເພື່ອຊາບ ແລະ ປະຕິບັດຕາມທາງຄວນດ້ວຍ.

ເຊັນແທນລັດຖະມົນຕີວ່າການກະຊວງການຕ່າງປະເທດ

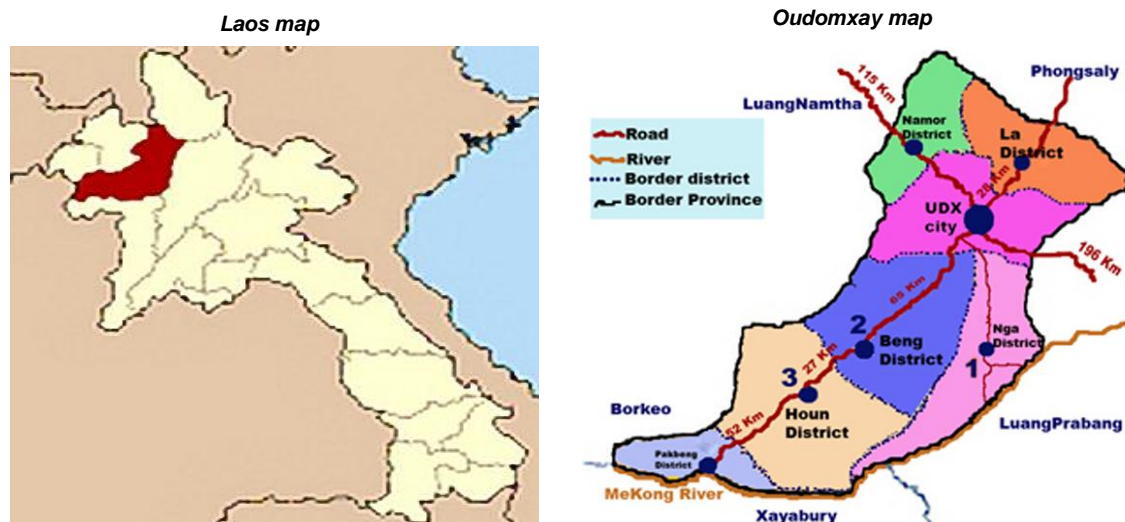


ສູນທອນ ໄຊຍະຈັກ

I. INTRODUCTION

1. Background of Oudomxay Province, Lao PDR

Oudomxay province is centrally located in the North of Laos and includes Luang Prabang, Phongsaly, Luang Namtha, Bokeo and Xayabury provinces. The area is 15,370 Km², 85% of the land being high mountains. Oudomxay province is divided into 7 districts, 472 villages (119 villages have no road access). It has a population of 285,274 people (2010) which includes 60% LaoTheung (Khmou), 25% LaoLoum and 15 % LaoSoong (Kmong). 85% of the population lives in remote areas and still live their traditional ethnic ways. The economy is mainly agricultural and farming. For 74.1% of the population, the income is lower than 2 USD per day. 13,111 families are classified as being poor.



Oudomxay provincial hospital is a government hospital with 85 beds and 134 staff members. (12 post-graduate, 26 medical doctors).

The eye unit is one area under Oudomxay provincial hospital; there are 6 staff members which include:

| Position | Qty. |
|--|------|
| Ophthalmologist | 1 |
| Basic eye doctor (now training in Vientiane) | 1 |
| Ophthalmic nurse | 3 |
| Optometrist | 1 |

The eye care unit in Oudomxay began in 2006. Services include cataract, glaucoma, and pterygium surgeries, eyelid repair (not severe) and the repair of rupture or lacerate. The eye care unit does not yet provide cosmetic surgery, severe ectropion repair or DCR because there are currently no specialists in these areas. Patients are often referred to Vientiane capital or abroad if they can afford it.

2. Statement of the mission

In March 2006, a 18 year old man living in Tawan village of Luang Namtha province (Bounpheng) was severely burned when he was struck by lightning. He suffered from severe ectropion (no eyelids), perforated cornea, and blindness. In March 2008, he was referred to Mettapracharak hospital in Nakornprathom Thailand for surgery to repair severe ectropion with a full-thickness skin graft. This was performed by **Dr. Nattawut NANUMKARNG**, a specialist in oculoplasty, and was funded and supported by LRF, with additional support from Mettapracharak hospital.

In 2010 the traction ectropion was recurrent and he could not close his eyes. He had tearing and complications with infectious conjunctiva. He was referred to the Ophthalmology Center in Vientiane to be seen by the ORBIS mission but they were unable to perform surgery for him.

No ophthalmologists in Laos could repair his eyelids and save his vision.

In March, 2011, **Phetsamone Indara, M.D** (ophthalmologist at Oudomxay eye unit), consulted with **Dr. Nattawut WANUMKARNG**,

(the oculoplasty specialist who had performed the original surgery for this case) and invited him to perform the surgery at Oudomxay hospital. The proposed plan was a necessity in order to save Bounpheng's vision. It also helped Lao people who live in poverty and, with the cooperation of Oudomxay provincial hospital and Mettapracharak hospital, improved the skills and expertise of the Lao ophthalmologist at Oudomxay Hospital.



METTAPRACHRAK HOSPITAL



Mettapracharak or Raiking hospital is a Thai government hospital headquartered at 52 Group 2nd, Raikhing unit, Samphararn district Nakornprathom province 73210, Thailand ([Tel:+66-\(0\)34-225818](tel:+66-(0)34-225818), www.metta.go.th). It is a non-profit, non-religious, non-political organization. The Mettapracharak Hospital has conducted oculoplasty surgery and a PKP on the Lao patient who was struck by lightning in April of 2008. Their goal is to provide continued care for this patient and future patients, free of charge, while developing the skills of Lao medical personnel.

LAO REHABILITATION FOUNDATION (LRF)



Headquartered in California, USA, Lao Rehabilitation Foundation, Inc. (LRF) is a non-profit, non-religious, non-political organization. Activities are conducted by its President, Dr. Luc Janssens. LRF maintains an office at the Department of Public Health in Vientiane and in Oudomxay, Laos. The purpose of LRF is to provide medical services to Laotian citizens, with a greater focus on children. The foundation recognizes that the best guarantee for sound health is adequate nutrition, basic hygiene, decent shelter, education and reasonable access to medical facilities. The Foundation has conducted several missions in the remote areas of Laos providing medical services to the poor, and particularly helping Bounpheng from late 2006 until present. The Foundation has also provided mobile medical equipment for dental, E.N.T and eye care. LRF is operating in Laos under a MOU with the Prime Minister's Office, National Science Council (PMO-NSC)

3. Objective and Target

- To rehabilitate vision for a better quality of life, especially Mr. Bounpheng.
- To develop the skills of Lao medical personnel with the cooperation of Oudomxay hospital and Mettapracharak hospital.

Target: The total target of 13 cases included:

- Repair Bounpheng's eyelid who suffered from recurrent severe ectropion.
- Repair the eyelids of 10 additional cases.
- Provide dacryocystorhynostomy (DCR) surgery for 2 cases.
- Provide eyelid and DCR surgery instruction and teach improved techniques to Lao ophthalmologists.

4. Location and Duration of Mission

This mission took place over two days (December 23-24, 2011) at Oudomxay provincial hospital, Oudomxay province, Lao PDR.

5. The Process of Implementation

- Two months preparation. (October, 2011 to December, 2011). Lao ophthalmologist coordinated with Thai specialist in oculoplasty.
- Informed all involved of the purpose, planned activities and obtained agreement from the ministry of health and ministry of foreign affairs.
- Registered patients by OPD case at eye unit, Oudomxay provincial hospital.
- Prepared equipment, supplies, medicines, budget and teamwork.

6. Outcome

- Provided patients with a better future; especially for Bounpheng.
- Lao ophthalmologist at the Oudomxay eye unit developed new skills and learned new techniques.

III. METHODOLOGY

- Examined and recorded observations before surgery. Separated surgery cases by general anesthesia and local anesthesia.
- Set up medical equipment in the operating room with the anesthesiologist.
- Surgery performed by team work with the anesthesiologists, surgeons, assistant nurses, and students.
- Utilized manual and automated equipment for examination and surgery.
- Treatment was provided with quality medicine and proper operating procedures.
- Instructed Lao ophthalmologist through observation and practice.
- Post-surgery care was provided.



*Bounpheng's eye examined before surgery
By Dr. Nattawut WANUMKARNG*



*Severe ectropion repair with full-thickness skin graft
By: Dr. Nattawut; Dr. Alee; Dr. Nareerat and
Dr. Phetsamone*



*Dr. Alee NIMITVONGSAKUL is teaching
Lao ophthalmologist how to perform DCR surgery*



*Dr. Nareerat KASEMSOOK is teaching
Lao ophthalmologist how to perform Frontalis
(brow) suspension surgery*



*Severe ectropion, post-surgery 1st day, examined
by Dr. Nareerat KASEMSOOK*

1. **Medicine and Instruments**

Medicine and instruments included:

- Eyelid surgery set, DCR set, silk and medicine brought from Thailand by 3 specialized surgeons.
- Anesthesia instruments and basic medicine used at Oudomxay provincial hospital.

2. **Team Work**

There were 10 team members:

Oudomxay Provincial Hospital (7):

- 1 ophthalmologist
- 2 anesthesiologists
- 4 ophthalmic nurses

Mettapracharak, Thailand (3):

- 3 specialists oculoplasty

(Details on attached file)



4 surgeons in operating room
Left: Dr. N. WANUMKARNG; Dr. P. INDARA;
Dr. A. NIMITVONGSAKUL; Dr. N. KASEMSOOK

IV. RESULT

Examined: 22 cases (F 7), surgery performed: 12 cases (F 6) included:

| No | Diagnosis | Qty. | Actual Procedure |
|----|-------------------------------|------|--|
| 1 | Severe ectropion | 2 | Ectropion repair with full-thickness skin graft |
| 2 | Tractional ectropion | 1 | Ectropion repair full-thickness skin graft with frequentic fat transposition (Redreping) |
| 3 | Lacrimal duct obstruction | 1 | DCR |
| 4 | Nasolacrimal duct obstruction | 1 | Probing |
| 5 | Ptosis | 3 | Frontalis (brow) suspension |
| 6 | Blepharochalasis | 1 | Blepharoplasty BE |
| 7 | Eyelid dermoid cyst | 2 | Dermoid cyst excision |
| 8 | Scar lateral cantus | 1 | Lateral cantus cosmetic surgery |

(Details on attached file)

V. ACTUAL EXPENDITURE

The total actual expenditure: \$4,610 (four thousand six hundred and ten USD). The actual budget included:

- Transportation and accommodation for Thai team: \$2,400
- Medicine and instruments: \$1,980
- Other: \$230

(Details on attached file)

VI. CONCLUSION

This mission was the first oculoplasty and DCR mission at Oudomxay provincial hospital in cooperation with Mettapracharak hospital.

- Non-profit organization's only interest is to help or rehabilitate people who suffer from poverty.
- This mission has decreased the number of severe eyelid disease cases and lacrimal duct obstruction in Oudomxay province and Northern Laos.
- All operations were successful and there were no complications.
- Provided a better future for patients, especially for Bounpheng.
- Improved vision by eyelid correction.
- Specialized Thai oculoplasty surgeons have improved the skills of Oudomxay's ophthalmologist and new techniques were learned for eyelid surgery and external DCR.

Some Problems:

- Some cases were afraid to undergo surgery by general anesthesia and failed to receive surgery.
- Shortage of time despite the hard work of surgeons.
- Oudomxay hospital has limited anesthesiologists and nurse assistants which caused some problems for the surgeons.
- Limited availability of medical instruments and some medicine.
- Transportation from Luang Prabang to Oudomxay took two days.

Recommendations

- Continue to work with Mettapracharak Hospital and Thai specialists to help the Lao people.
- Take more time for the mission.
- Continue to develop the skills of Lao medical personnel at Oudomxay provincial hospital.

VII. OVERSIGHT UNIT

1. Oudomxay Provincial Hospital and Public Health Department

Responsible for obtaining Lao PDR's governmental official approvals, informing the Ministry of Health (MoH) and the Ministry of Foreign Affairs (MoFA) about the mission, preparing the mission, registering patients and coordinating the Lao team.

2. **Mettapracharak**

- Responsible for transportation, accommodation and other expenditures throughout the mission for the Thai team.
- Provided the eyelid surgery set, DCR set, silk and some medicine for the surgery cases.

3. **Lao Rehabilitation Foundation**

Responsible for Bounpheng's surgery expenses including the cost of anesthesia, medicine and accommodations duration his treatment at Oudomxay hospital.

4. **Fred Hollows Foundation**

Provided transportation from Luang Prabang to Oudomxay for the Thai team. (4WD pick up)

Director of Oudomxay Hospital



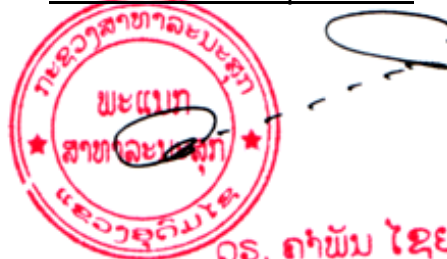
ດຣ. ກິ່ງເພັດ ໄຊຍະລາດ

Presenter

A handwritten signature in black ink, likely belonging to Phetsamone Indara.

Phetsamone Indara, M.D
Ophthalmologist, Head of Eye Unit

Director of Oudomxay Provincial
Public Health Department



ດຣ. ຄຳພັນ ໄຊຍະວົງ
Dr Khamphan XAYAVONG

ATTACHED FILES

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Listing of patients performed for Oculoplasty Mission in Oudomxay Provincial Hospital, Lao PDR in December 2011

| ID | Patient Name | Patient Name (Lao) | Age | Sex | Village | District | Province | Ethnicity | Diagnosis | Tent OR Date | Actual Procedure | Anes-thesia | Reason for Not Cleared |
|----|--------------|--------------------|-----|-----|----------|-----------|-------------|-----------|-------------------------------|--------------|--|-------------|------------------------|
| 1 | Bounpheng | ບຸນເພັງ | 22 | M | ຕາຫວານ | Namtha | LuangNamtha | Phounoy | Severe ectropion BE | 23-Dec-2011 | Ectropion repair with full-thickness skin graft | General | COMPLETED |
| 2 | Dee | ດີ | 75 | F | ໜອງແມງດາ | Xay | Oudomxay | Kmou | Lacrimal Duct Obstruction LE | 23-Dec-2011 | DCR | Local | COMPLETED |
| 3 | Chanh | ຈັນ | 66 | F | ນາແມດ | Beng | Oudomxay | Leua | Ptosis LE | 23-Dec-2011 | Frontalis (brow) suspension | Local | COMPLETED |
| 4 | Khamphay | ຄຳຜາຍ | 48 | M | ສີທາດ | Tonpheung | Bokeo | Kmou | Dermoid cyst upper lid | 24-Dec-2011 | Dermoid cyst excision | Local | COMPLETED |
| 5 | Toukham Song | ຕູ່ຄຳ ຊົງ | 2 | M | ດອນແກ້ວ | Xay | Oudomxay | Hmong | Nasolacrimal Duct Obstruction | 24-Dec-2011 | Probing | General | COMPLETED |
| 6 | Khampane | ຄຳປານ | 20 | F | ຫ້ວຍຊຸມ | Xay | Oudomxay | Laoloom | Congenital Ptosis BE | 24-Dec-2011 | Frontalis (brow) suspension | Local | COMPLETED |
| 7 | Sulixay | ສຸລິໄຊ | 6 | M | ໂຮມສຸກ | Xay | Oudomxay | Laoloom | Scar lateral cantus area LE | 24-Dec-2011 | Lateral cantus cosmetic surgery | Local | COMPLETED |
| 8 | LaopaYong | ລາວປາຍົງ | 20 | M | ຫຼັກ 32 | Xay | Oudomxay | Hmong | Severe ectropion RE | 24-Dec-2011 | Ectropion repair with Tenzel's flap and Full thickness Skin Graft | Local | COMPLETED |
| 9 | Leun | ເລີນ | 19 | M | ໂຮມສຸກ | Xay | Oudomxay | Kmou | Sebaceous cyst in orbit | 24-Dec-2011 | anterior orbitotomy with mass removal | Local | COMPLETED |
| 10 | Phimphone | ພິມພອນ | 46 | F | ໜອງແມງດາ | Xay | Oudomxay | Laoloom | Ptosis BE | 24-Dec-2011 | Frontalis (brow) suspension | Local | COMPLETED |
| 11 | Sengpanh | ເສງປັນ | 67 | F | ດອນຄຸນ | Namtha | LuangNamtha | Laoloom | Blepharochalasis BE | 24-Dec-2011 | Blepharoplasty BE | Local | COMPLETED |
| 12 | Mone | ມອນ | 36 | F | ນາ | Houn | Oudomxay | Kmou | Tractional ectropion LE | 24-Dec-2011 | Ectropion repair full-thickness skin graft with frequent fat transposition (Redreping) | Local | COMPLETED |



Listing of patients performed for Oculoplasty Mission in Oudomxay Provincial Hospital, Lao PDR in December 2011

| ID | Patient Name | Age | Sex | Diagnosis | Actual Procedure | Before surgery | Post surgery 1st day |
|----|--------------|-----|-----|------------------------------|---|--|--|
| 1 | Bounpheng | 22 | M | Severe ectropion BE | Ectropion repair with full-thickness skin graft |  |  |
| 2 | Dee | 67 | F | Lacrimal Duct Obstruction LE | DCR |  |  |

| | | | | | | | |
|---|--------------|----|---|-------------------------------|-----------------------------|---|--|
| 3 | Chanh | 66 | F | Ptosis LE | Frontalis (brow) suspension |  |  |
| 4 | Khamphay | 48 | M | Dermoid cyst upper lid | Dermoid cyst excision |  |  |
| 5 | Toukham Song | 2 | M | Nasolacrimal Duct Obstruction | Probing | |  |

| | | | | | | | |
|---|-----------|----|---|-----------------------------|---|--|--|
| 6 | Khampane | 20 | F | Congenital Ptosis BE | Frontalis (brow) suspension |  |  |
| 7 | Sulixay | 6 | M | Scar lateral cantus area LE | Lateral cantus cosmetic surgery |  |  |
| 8 | LaopaYong | 20 | M | Severe ectropion RE | Ectropion repair with Tenzel's flap and Full thickness Skin Graft |  |  |

| | | | | | | | |
|----|-----------|----|---|-------------------------|---------------------------------------|--|--|
| 9 | Leun | 19 | M | Sebaceous cyst in orbit | anterior orbitotomy with mass removal |  |  |
| 10 | Phimphone | 46 | F | Ptosis BE | Frontalis (brow) suspension | |  |
| 11 | Sengpanh | 67 | F | Blepharochalasis BE | Blepharoplasty BE |  |  |

| | | | | | | | |
|----|------|----|---|-------------------------|--|---|---|
| 12 | Mone | 36 | F | Tractional ectropion LE | Ectropion repair full-thickness skin graft with frequentic fat transposition (Redreping) |  |  |
|----|------|----|---|-------------------------|--|---|---|