Current state of CLP (cleft lip and palate) treatment in Vietnam
A Health Care Support in Ninh Binh Province

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Type of CLP (by Kernahan)

Appears along an age of philtrum on the lip, between primary and secondary palate on the palate
CLP, incidence and treatment

- CLP is caused by mis-formation of lip and palate in the prenatal period (4-12 weeks after fertilization).
- Frequency of birth with CLP is 0.2% (2/1,000) in Asian, 0.1% in Caucasian and 0.07% in African-American population.
- Medial and dental cares are provided by the medical team consisted of various specialist from immediately after birth to adult, through growing period.
- Proper treatment can lead complete rehabilitation.
Treatment flow of CLP

Age (Years)

0 1 2 5 10 15 20

- Oral surgeon
- Speech Pathologist
- Orthodontist
- Prosthodontist
- ENT Dr
- Pediatrician

Presurgical orthodontics, Oral care

Care, follow up

Speech therapy

Orthodontic Tx

Retention

Prosthodontic Tx
Outline of the Health Care Support

- Government of Vietnam (Ministry of Health) requested a health care support for CLP patients from Japan Cleft Lip and Palate Foundation (JCPF: head office; Aichigakuin Univ., Nagoya, Japan)
- JCPF’s missions work in Ben Tre (southern), Quang Nam (central) besides Ninh Binh
- A half cost of the mission was managed by Japanese government, another half was by the donations to JCPF
- It cost $40,000, once.

Health care supports of CLP by JCPF in South-East Asia
Location of Ninh Binh Province

- Locates 100km south of Hanoi (capital) along the route No. 1
- Has a population of about 0.9 million
- Capital of the provence is Ninh Binh Town (now city)
- Ninh Binh General Hospital (400 beds in ‘90s) has been key hospital
- An obscure area, because of the history that they resisted against socialism
Aim of our health care support for CLP

By treatment of the CLP patients and donation of medicine and medical goods,

1. To transfer the health care technology to the local staffs
2. To educate the society regarding CLP
   • To avoid abortions after prenatal diagnosis
3. To propose policy to the local government to construct proper medical system
4. To offer good care
Period of the missions

1. 28/11/1998 - 14/12/1998
2. 21/11/1999 - 06/12/1999
4. 25/11/2001 - 02/12/2001
5. 06/01/2003 - 21/01/2003
6. 14/12/2003 - 29/12/2003
7. 17/01/2006 - 29/01/2006
8. 12/01/2008 - 27/01/2008
9. 09/02/2009 - 22/02/2009
10. 01/05/2010 - 10/05/2010
11. 27/02/2011 - 13/03/2011
12. 12/02/2012 - 19/02/2012
13. 28/02/2013 - 11/03/2013
14. 25/02/2014 - 09/03/2014

4-5 oral surgeons, 2-3 dental anetheologists and 1-2 nurses attend each mission
The mission in 2002
Recent state of Ninh Binh in 2013

- The hospital moved and newly build with latest operation rooms and 900 beds.
- Ninh Binh city are also developing with infrastructures and new buildings.
Number of birth in Ninh Binh Province in 2001

Statistics

<table>
<thead>
<tr>
<th></th>
<th>male</th>
<th>female</th>
<th>total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of total population in the province</td>
<td>438,084</td>
<td>467,771</td>
<td>905,795</td>
</tr>
<tr>
<td>Number of total birth</td>
<td>7,066</td>
<td>5,473</td>
<td>12,539</td>
</tr>
<tr>
<td>Number of CLP birth</td>
<td>5</td>
<td>12</td>
<td>17</td>
</tr>
<tr>
<td>Rate of CLP birth (per 1,000 birth)</td>
<td>0.7</td>
<td>2.2</td>
<td>1.4</td>
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<tr>
<td></td>
<td>(0.07%)</td>
<td>(0.22%)</td>
<td>(0.14%)</td>
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</tbody>
</table>
Number of patients

New patients

Total: 414
31.8 patients/year

Total patients

Total: 584
48.7 patients/year
Number of operation

Total: 365
Age period of primary surgery

Cheiloplasty

- Number of patients treated by the team
- Year: 1998-2005

Palatoplasty

- Number of patients treated by the team
- Year: 1998-2005
Training for local staffs
Summary

• Fourteen missions (each 2 weeks) for during 16 years
• Transferred the health care modality to the local staffs have been mostly completed, but needs to establish continuous training system to bring up young staffs and another technology like orthodontic and/or speech therapy is necessary to habilitate the maxillofacial function.

⚠️ New education is necessary for people to avoid abortions of CLP after prenatal diagnosis

• As Vietnam is now rapidly developing, we should consider a proper support at the proper stage in social development.

• Basic and clinical research activities should be introduced.