



facing the world

promoting life-changing surgery for children with facial differences

## Center for Craniofacial and Plastic Surgery

108 Military Central Hospital, Hanoi, Vietnam



<https://www.facebook.com/craniofacial108/>

# Overview of Proposal

- First centre of excellence in multidisciplinary integrated approach to craniofacial surgery in Vietnam
- Offering a viable and sustainable solution for children with congenital facial differences and craniofacial disorders
- Built on a foundation of sustainable, self-perpetuating education and training
- Template opportunity for partner hospitals
- 5-year customized training plan
- Designated fund established and funded by Vietnamese donors to cover the costs of the poor  
<https://www.facebook.com/craniofacial108/>

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# Background

## Congenital facial differences

- Population of Vietnam is 95.54 million (2017)
- Annual birth rate in Vietnam is 1.2 - 1.5 million
- Global incidence of congenital facial deformity is 1/1000 births
- Vietnam incidence of congenital facial differences is 1/400 pregnancies
- 3,000 – 3,750 new cases of congenital facial differences per year
- 54,000 estimated current population with congenital facial differences under age 18 years
- Facial birth defects common in Vietnam:
  - Cleft lip and palate
  - Facial clefts
  - Craniofacial syndromes
  - Craniosynostosis (early fusion of sutures of cranial bones)

# 108 Military Central Hospital

## Background and Network

- Multidisciplinary hospital founded in 1951
- 64 clinical and allied health departments
- 2,500 medical staff, representing all medical and surgical specialties and allied health professionals (social workers, speech and language therapists, physiotherapists)
- 2,000 beds
- 50 operating theatres
- Largest hospital network in Vietnam
  - Covers 19 out of 64 provinces
  - 30 non–military hospitals
  - 10 military hospitals
  - Reports to the Ministry of Defense (state hospitals report to the Ministry of Health)
  - Fast decision-making process
- Currently serves 30% of national population (c30 million)
- Immediate plans to expand network to other provinces

# Previous Maxillofacial and Plastic Surgery Department now incorporated in the new Center

<b>Staffing</b>	8 doctors comprising: <ul style="list-style-type: none"><li>- 5 senior consultants</li><li>- 1 senior surgeon</li><li>- 2 junior surgeons</li></ul>
<b>Beds</b>	30
<b>Cases</b>	500 children with congenital facial deformity. (Full departmental caseload 2,500.)
<b>Case mix</b>	<ul style="list-style-type: none"><li>- Microsurgery</li><li>- Facial plastic surgery</li><li>- Cleft lip and palate</li><li>- Craniofacial surgery including mid- and lower face</li></ul>

# Proposed capability: Center for Craniofacial and Plastic Surgery

## YEARS 1-5

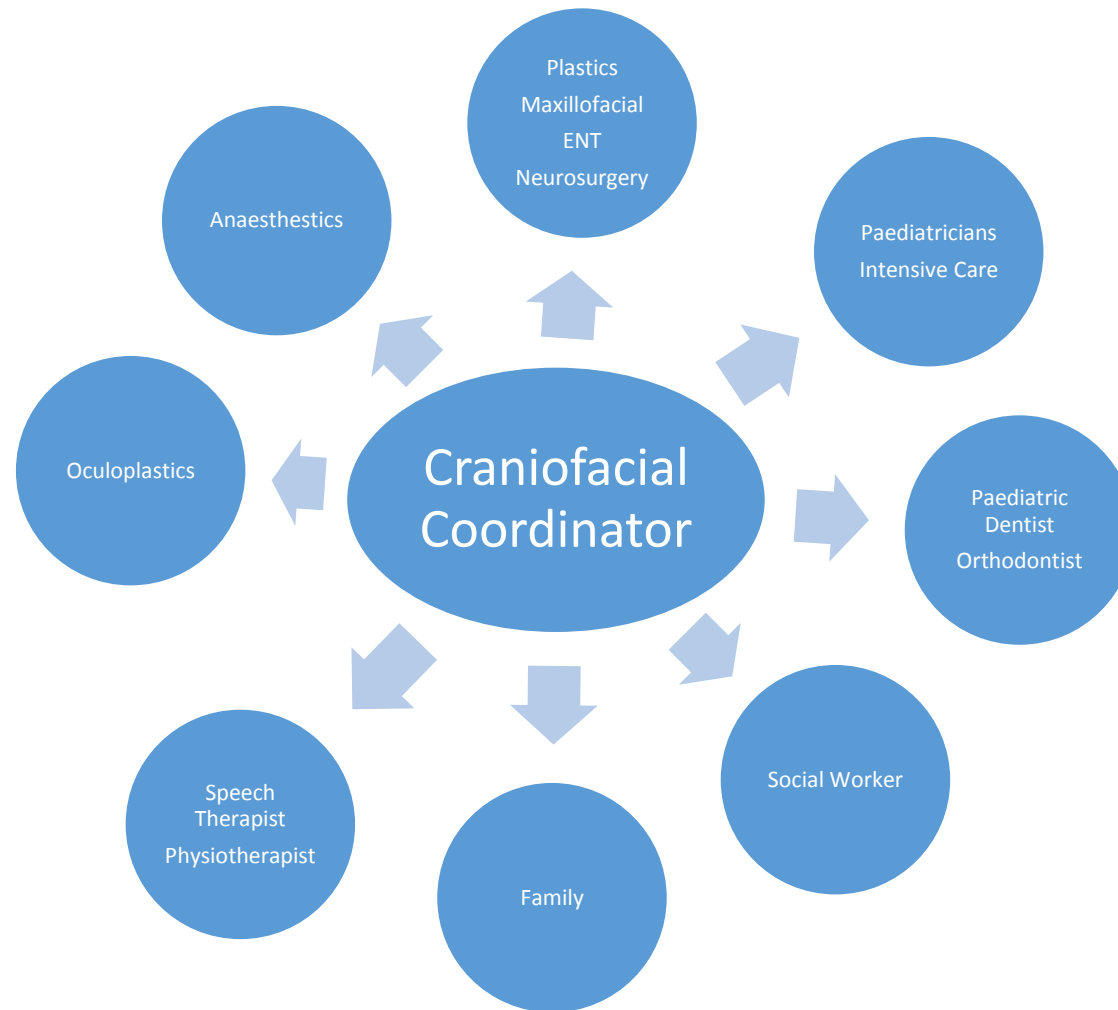
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<b>Staffing</b>	13 plus doctors comprising: <ul style="list-style-type: none"> <li>- 5 senior consultants</li> <li>- 2 senior surgeons</li> <li>- 6 junior surgeons</li> </ul>	40% increase
	11 allied healthcare professionals comprising: <ul style="list-style-type: none"> <li>- 2 craniofacial coordinators</li> <li>- 2 speech and language therapists</li> <li>- 6/7 nurse social workers</li> </ul>	100% increase
<b>Beds</b>	45	50% increase
<b>Cases</b>	2,000 children treated for congenital facial deformity per year, achieved through incremental increases from the current rate of 500 cases per year.	400% increase

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**Approach** Specialists from other departments will be included in weekly multidisciplinary team (MDT) meetings – the first truly multidisciplinary integrated approach to craniofacial surgery in Vietnam.

# Multidisciplinary Team



- Weekly MDT meeting
- Plan agreed by all members of team

- All craniofacial cases discussed with team
- Plan discussed with patient and family



## Timeline and Patient Impact

- Immediate start, as government approval for the Center was granted in November 2018, to be located on the 21<sup>st</sup> Floor of the new building. Official opening was December 2018
- A new Military fund has been set up and ring-fenced specifically for the Center. All donations made to the fund will only be used for the Center.
- The base of 500 children treated currently per year to increase by 300 children per year to 2,000 children per year by Year 5. At the end of the first 5-year period, a cumulative total of 7,500 children will have been treated.
- From Year 5, 2,000 children per year to be treated, with a cumulative total of **17,500** children treated over the first 10-year period in just this one site.

Year	Additional children treated per year	Total children treated per year	Cumulative Total
Baseline year		500	
1	300	800	1300
2	300	1100	2400
3	300	1400	3800
4	300	1700	5500
5	300	2000	7500
6		2000	9500
7		2000	11500
8		2000	13500
9		2000	15500
<b>10</b>		<b>2000</b>	<b>17500</b>

# Fellowship Training Program

## Nature and structure

- Specialist fellowships at internationally renowned craniofacial units
- Implemented and facilitated by Facing the World
- Initial fellowship focus on senior doctors across all required specialties
- ‘Grass roots’ training, focusing long term on junior members of the team to help them acquire necessary knowledge and skills
- Onward in-house training with backup from external centers of excellence
  - Maintenance of clinical standards and outcomes
  - Multi-center research and development
  - International exchange program

## Anticipated numbers over a 5-year period for UK, Canada and USA Fellowship Programs

It is estimated that with investment into the Fellowship Program over a 5-year period, the Center will be sustainable and established to reach 60% of all children born in Vietnam with congenital facial abnormalities. At 6-month review, agreement has been reached with the Military Hospital that each fellow should return for a second fellowship within 6 months of the first. The Center has determined that more information is assimilated this way than by extending the fellowships. After a 5 year phasing period, the Center will have the skill set to be self-sufficient and to continue with in-house training in order to sustain the Center on an ongoing basis. Year-long fellowships will be arranged in key areas eventually although these are not part of the current project.

Year	Fellow Seniority	Fellowship Length	Department	Fellow Number	Fellows Subtotals
1-2	<b>Senior Surgeon/Doctor (Department Head)</b>	<b>1 week</b>	Plastic surgery/Maxillofacial	4	
			Neurosurgery	4	
			ENT	4	
			Orthodontics	4	
			Anaesthetics	4	
			Intensive care	4	
			Paediatrics	4	
			Ophthalmology	4	
			Speech	4	36
			3-5	<b>Senior/Junior Resident</b>	<b>2 weeks</b>
Neurosurgery	8				
ENT	8				
Orthodontics	8				
Anaesthetics	8				
Intensive care	8				
Paediatrics	8				
Ophthalmology	8				
Oculoplastics	8				
Speech	8	88			
	<b>Allied Health professionals</b>	<b>1 week</b>	Craniofacial coordinator	4	
			Social workers/nurses	10 - 14	14 - 18
<b>TOTAL NUMBER OF FELLOWS</b>					<b>138 - 142</b>

# Opening Ceremony of Center for Craniofacial and Plastic Surgery

4<sup>th</sup> December 2018

