



# HOSPITAL INTRODUCTION: CLINICS & TECHNOLOGY Clínica Alemana Temuco

Dr. Francisco Biel and IT Engineers Patricio Quezada



# Outline

- Hospital profiles and its existing telemedicine set-up, activities and plans
  - introduction of clinics/surgery/endoscopy profiles, medical needs for telemedicine - **presented by doctor** (3 mins)
  - Hospital Telemedicine resource: staff, internet, equipment set-up, experience, current problems - **presented by engineer** (3 mins)



**INE 2014: 1.046.322 hbtes**



**ONU: 275.617 (2015)**





CLÍNICA  
**Alemana**®  
T E M U C O



# Introduction of endoscopy profiles

- 105 clinical beds (all specialtes)
- Digestive Endoscopy Unit of **Clínica Alemana Temuco**
  - **9 gastroenterologist** (6 adult, 3 pediatric), **3 digestive surgeons**, **4 otolaryngologist**.
  - **2** endoscopy rooms
  - **5** recovery rooms
  - **34** diagnostic gastroscopy/**12** colonoscopy per day
  - Olympus: **180** (NBI)
  - Polypectomy, CPRE, percutaneous gastrostomy, variceal and non variceal bleeding therapy, paliative stent, etc.

# Endoscopy Unit Calendar

	<b>MARTES</b>		<b>MIERCOLES</b>		<b>JUEVES</b>		<b>VIERNES</b>		Hora
PABELLON 2	PABELLON 1	PABELLON 2	PABELLON 1	PABELLON 2	PABELLON 1	PABELLON 2	PABELLON 1	PABELLON 2	
	Dr. Henriquez	Dr. Fonseca	Dr. Rios	Dr. Carcamo	Dr. Biel	Dr. Fonseca	Dr. Rios	Dr. Biel	08:30
Dr. Fonseca	8.30-9:30	8.30-10.30	8:30-10:30	08:30-09:30c/20	8:30-10:30	8.30-10.30	8:30-10:30	8:30-13:00	09:00
9.00-10.00	c/20	c/20m	c/15	Dr. Mansilla	c/15	c/20m	c/15	c/15	09:30
Dr. Biel	Dr. Arellano			9:00-11:30					10:00
10:00-11:00	10:00-10:40			c/10					10:30
	c/20								11:00
	Dr. Hofmann		Dr. Hofmann		Dr. Hofmann	Dr. Pinto	Dr. Hofmann		11:30
Dr. Flores	11:20-13:30	Dr. Sierralta	11:20-13:30	Dr. Sierralta	11:20-13:30	11:30-13:00	11:20-13:30		12:00
11:30-13.30	c10m	12:00-13:40	c 10m	12:00-13:40	c10m	c/20	c 10m		12:30
c/20	14:20-15:20	c/20		c/20	14:20-15:20				13:00
	c10m				c10m				13:30
						Dr. Carcamo	Dr. Losada	Dr. Hebel	14:00
Dr. Biel						13:30-14:00c/20	14:00-14:15c/15	14:00-14:30c/15	14:30
14:30-16:00		Dr. Pinto	Dr. Biel				Dr. Rios	Dra. Fierro	15:00
	Dr. Naranjo	15:00-16:30	15:00-18:00	Dr. Rios	Dr. Suazo	Dr. Naranjo	15:00-18:00	15:00-15:30c/15	15:30
	15:30-18:00	c/20	c/15	15:30-17:30	15:30-16:10c/15	15:30-18:00	c/15	Dr. Naranjo	16:00
	c/30			c/15	Dr. Mansilla	c/30		16:00-18:00	16:30
Dr. Mansilla					16:30-18:00			c/30	17:00
16:30-18.30					c/15				17:30
c10									18:00
									18:30
			Dr. Contreras G						19:00
			19:00-20:00						19:30
			c/30						20:00

# Endoscopic procedures 2016

	Enero	Febr	Marzo	Abril	Mayo	Junio	Julio	Agost	Sept	Oct	Nov	Dic	Total
Gastroscopy	402	293	516	493	525	429	501	548	428	436	474	464	<b>5519</b>
Rectoscopy	6	2	18	8	16	5	5	19	15	12	11	11	<b>128</b>
Colonoscopy	135	114	189	215	185	162	157	190	184	153	161	171	<b>2006</b>
Left colonoscopy	8	3	6	8	8	3	2	6	2	4	8	8	<b>66</b>
<b>Total</b>	<b>551</b>	<b>412</b>	<b>729</b>	<b>724</b>	<b>734</b>	<b>599</b>	<b>665</b>	<b>763</b>	<b>629</b>	<b>605</b>	<b>654</b>	<b>654</b>	<b>7719</b>

30-40 procedures/day

55% Fonasa, 40% Isapres, 5% particular

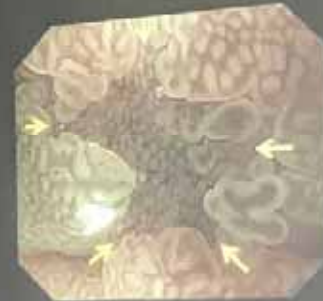
# Medical needs for telemedicine

- Meeting with **Clínica Alemana Santiago** (every Monday 08:00-09:00 hrs)
- **Therapeutic Endoscopy Training (ERCP)**. *Dr. Carlos Harz*
- **Biliopancreatic Surgery**. *Dr. Losada*
- **Future plans**
  - No future plans (so far)
  - Share experience with different centers in the country
  - Second opinion (external consultant)
  - Distance teaching





## VS Classification System (Yao)



Regular V and S:  
Focal chronic gastritis

Irregular V or S:  
Early gastric cancer



Yao, 2013

# Conference hall

