

ROME



EUROPEAN TELEMEDICINE CONFERENCE

7-8 OCTOBER 2014 | ROME, ITALY

TEKI

TELEMEDICINE IN HOLISTIC CHRONIC
MANAGEMENT PROGRAMS

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TEKI

Telemedicine for COPD elder patients



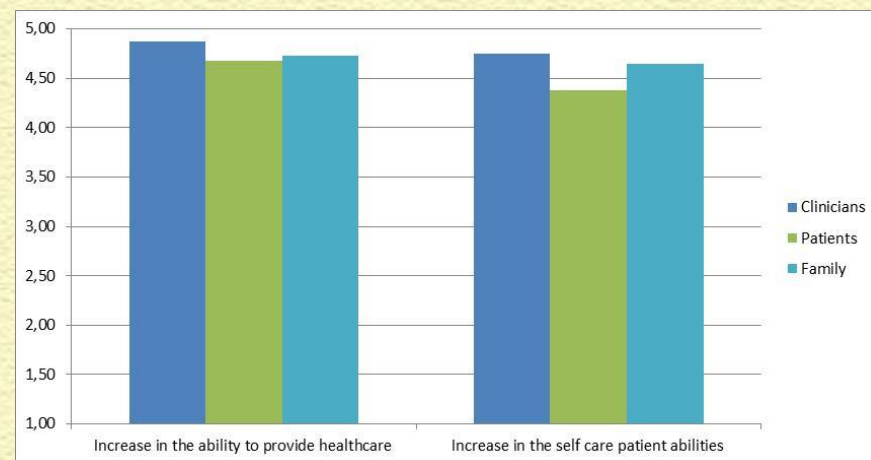
TEKI

Patients satisfaction and Savings

- **30 COPD patients** (average age: 75 years)
- **One of more acute situations** (last year, currently stable)
- Average FEV1 (%): **46.7 ± 14.5**
- Average age (years): **71,8 ± 6,7** (61-85)
- Measurement period: November 2012 – March 2013

96% of patients use TEKI every day.


























Hospitalizations:	-58%
Average LoS:	-34%
Total Hospital Days:	-81%



ECONOMIC STUDY OF CLINICAL ACTIVITY COSTS - PER PATIENT							
	HOSPITALIZATIONS	PRIMARY CARE	EMERGENCY	EXTERNAL CONSULTATIONS	TOTAL		PROJECTED TO A YEAR
WITHOUT TEKI	5.809,74 €	573,77 €	40	184,61 €	6.607,87 €		14.134,48 €
WITH TEKI	1.127,55 €	871,83 €	40	283,51 €	2.322,64 €		4.968,22 €
				SAVING	4.285,23 €		9.166,26 €
				MONTHLY SAVING	763,86 €		

Basque Country

A challenge for sustainability

% of total Health Expenditure	Inhabitants		How money is spent?				
	#	%	P. Care	Prescription	Outpatient	ER	Inpatient
 35%	 23.383	1.0%	 6,3%	 7,6%	 6,7%	2,5%	77%
 25%	 80.186	3.5%	 12,4%	 11,4%	 11,7%	 4%	60,3%
 15%	 720.644	31.4%	27%	20,6%	 17,7%	 4%	30,7%
 12%	 527.441	23.0%	36%	19%	 20,6%	 7%	 17,5%
 8%	 311.862	13,6%	35%	24%	27,5%	 11%	2,6%
 5%	 628.303	27,4%					

Source: Basque Country Health Department 2009

Basque Country

A Holistic Strategy

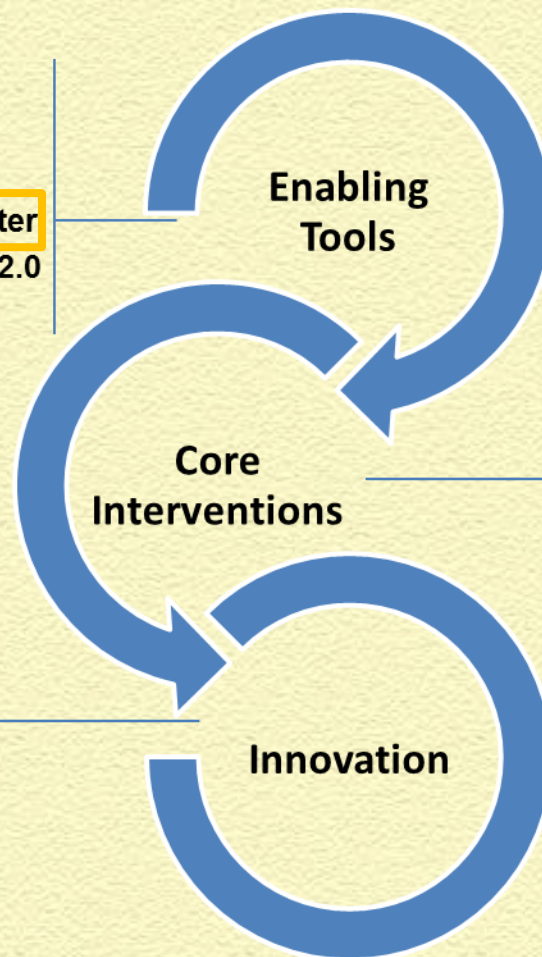


Basque Country

14 Integrated Projects

- Risk stratification
- Unified clinical record
- e-prescription
- **Multichannel services center**
- Patients associations Net 2.0
- Financing and contracting

- **Telehealth**
- I&R&D



- Prevention and promotion
- Clinical integration
- Expert patient
- Advanced nursing
- Subacute hospitals
- Health and Social services community cooperation

Basque Country Multichannel Health Services Center

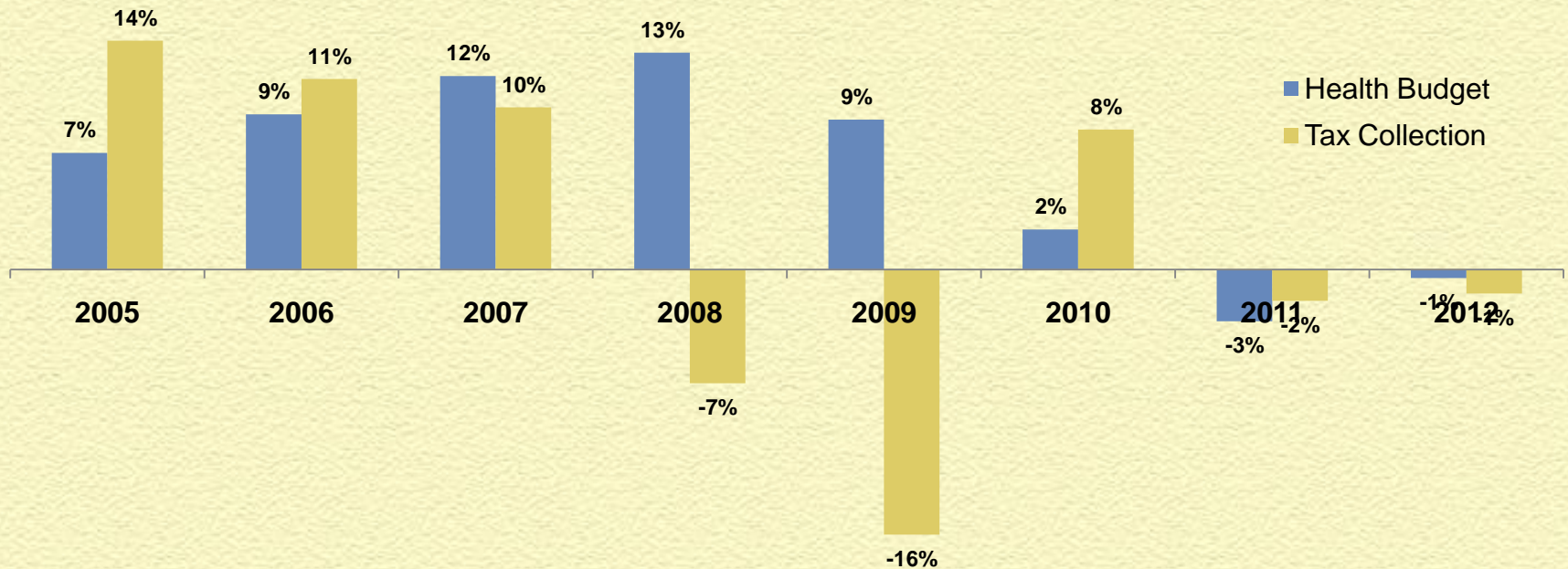


Basque Country

Savings achieved

	2012	2013	2014
Chronic Patients Management Programs	29,986,962	68,651,012	130,463,448
Case Management and Disease Management Programs	20,340,881	58,522,627	119,828,644
<i># patients (% population)</i>	48,232 (2%)	113,99 (5%)	225,945 (20%)
Hospitalizations at Home	9,646,081	10,128,385	10,634,805
<i># of hospitalization at home</i>	13,142	13,799	14,489
Remote Services	13,904,009	17,380,011	21,726,014
Interconsultations	692,270	865,337	1,082,671
<i># of interconsultations</i>	4,677	5,846	7,308
Specialists consultations	8,453,688	10,567,110	13,208,888
<i># of specialists consultations</i>	72,253	90,317	112,896
Health Advice	4,758,051	5,947,564	7,434,455
<i># of calls</i>	53,461	66,826	83,533
Others	15,629,000	16,458,783	17,301,423
TOTALS	59,509,971	102,489,806	169,490,885
TOTAL BUDGET	2,414,000,000	2,456,000,000	2,486,000,000
	-2,50%	-4,20%	-6,80%

Basque Country Sustainability



Valencia – La Fe

Big data and predictive analytics

Valencia Region Health Dept.



210.000 inhabitants

10% of the Chronic Population in Valencia

Care centers

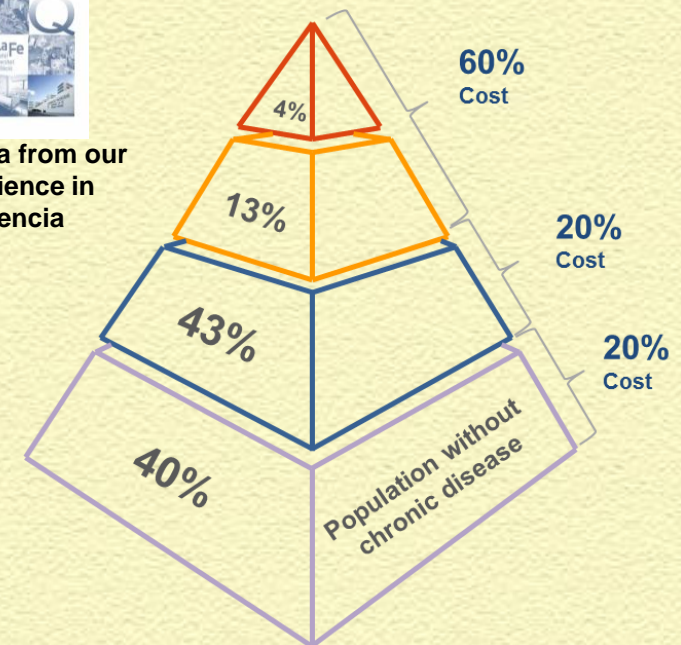
- University Hospital La Fe
- 6 primary care centers, 1 center for addictions

The Challenge

On average, 15-20% of patients drive around 60% of the total health system expenditure



Real data from our experience in Valencia



Valencia – La Fe

Our Approach

**Focus on most
expensive
multi-chronic
patients**

Predicting
which patients
will drive these
costs

**Coordinating
care levels to
keep patients
at home**

Managing
individual
cases, not just
a disease

Valencia – La Fe

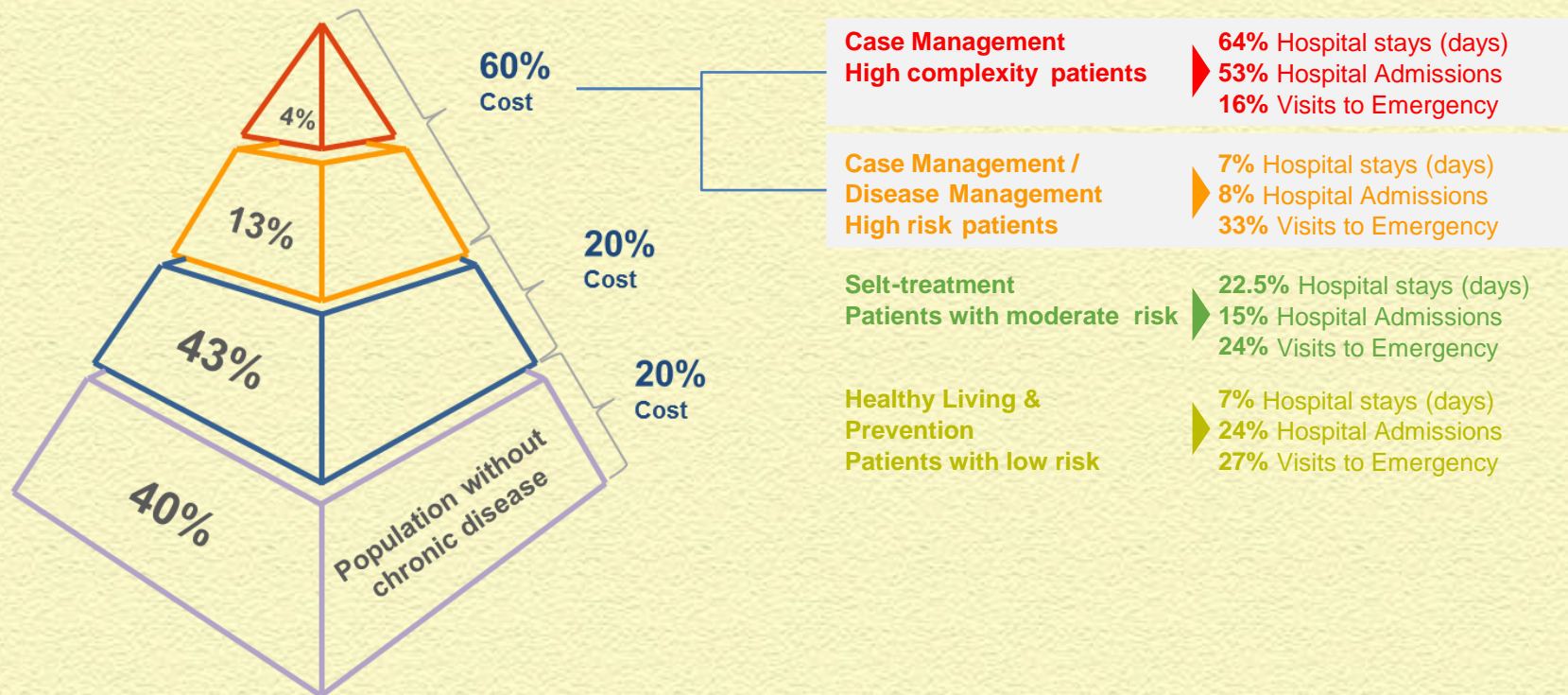
Focus in Multichronic Patients

Focus on most expensive multi-chronic patients

Predicting which patients will drive these costs

Coordinating care levels to keep patients at home

Managing individual cases, not just a disease



Valencia – La Fe

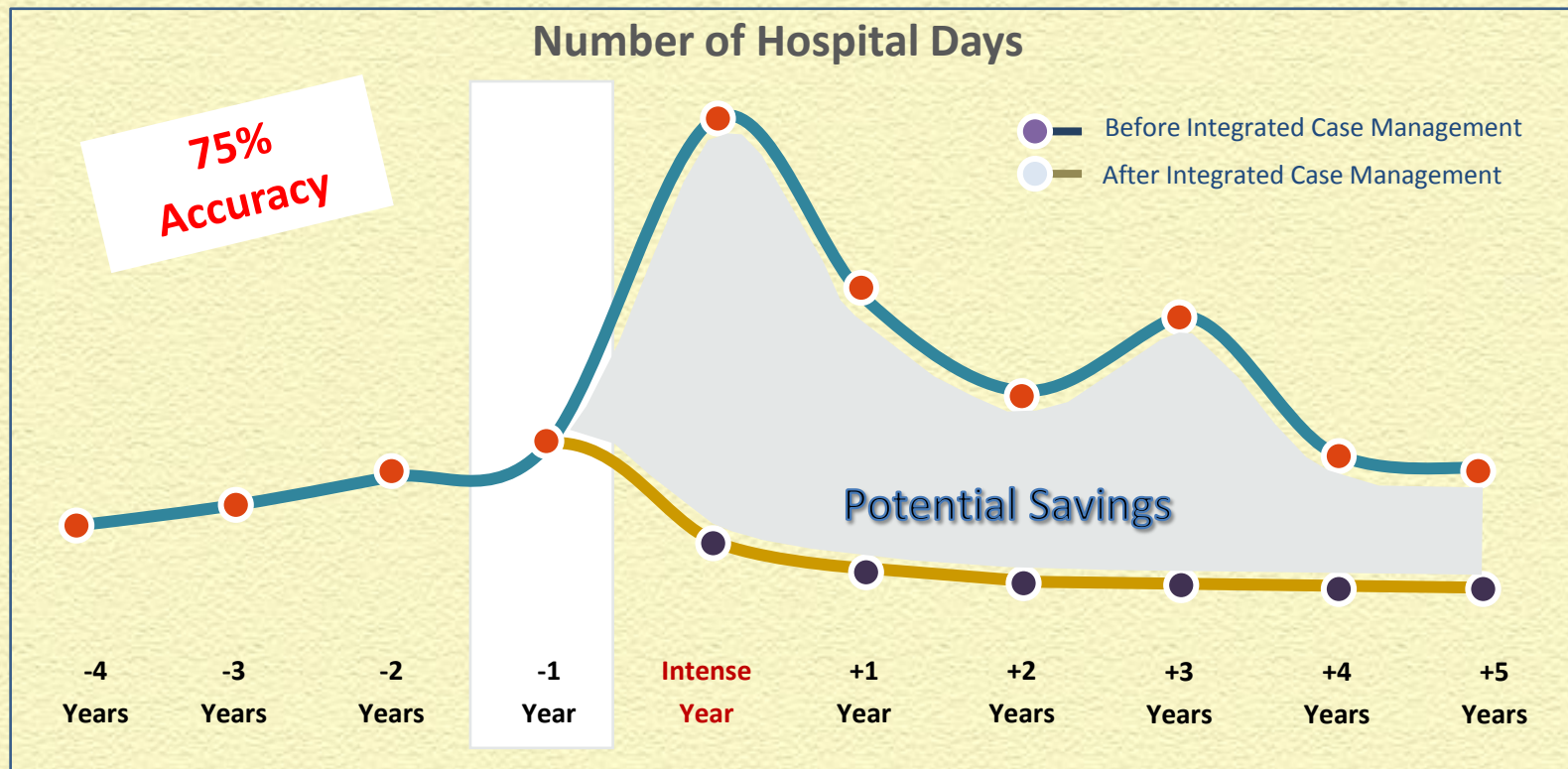
Predictive Models

Focus on most
expensive
multi-chronic
patients

Predicting
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Coordinating
care levels to
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Managing
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cases, not just
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(*) Source: Roger Halliday, Department of Health for England

Valencia – La Fe

Case vs. Disease Management

Focus on most
expensive
multi-chronic
patients

Predicting
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patients will
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Real data from our experience
in La Fe, Valencia

Patient Profile	
Men(%)	60%
Average Age	79
% > 70 years old	75%
Systems Affected	4
# of Pathologies	7
- Cardiovascular Pathology	69%
- Diabetes Pathology	34%
- COPD Pathology	32%
- Cancer	41%
Active Ingredients	10

% Palliative care (*)	59%
% At home deaths (*)	70%
(*) % of the total patients included in the program	

- Integrated approach vs. aggregation of treatments by disease
- Avoid redundancies and inefficiencies (test, visits, analysis,...)
- Save patient and caregiver time
- Rationalize drugs prescription

Valencia – La Fe

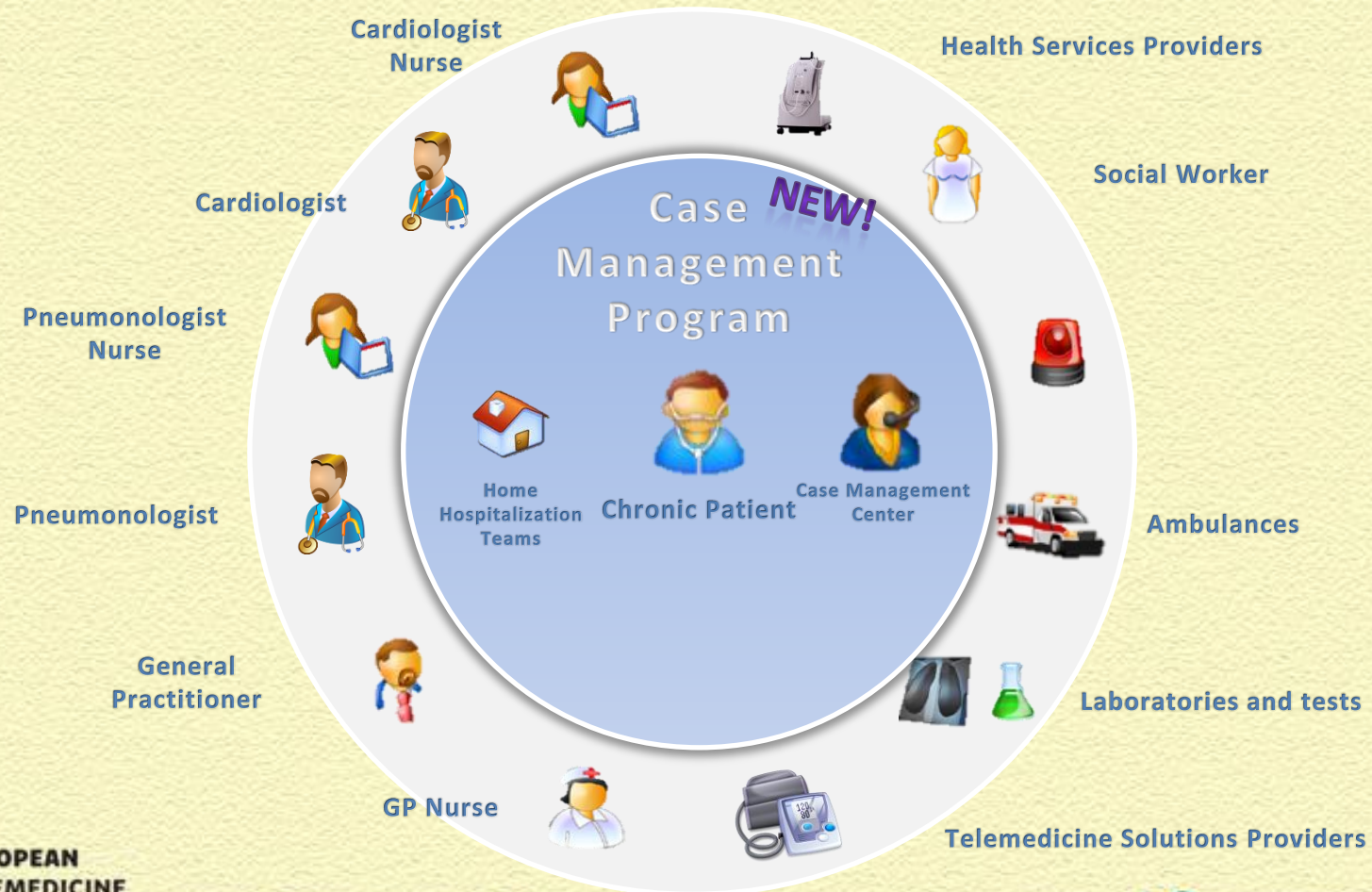
Case Management Programs

Focus on most expensive multi-chronic patients

Predicting which patients will drive these costs

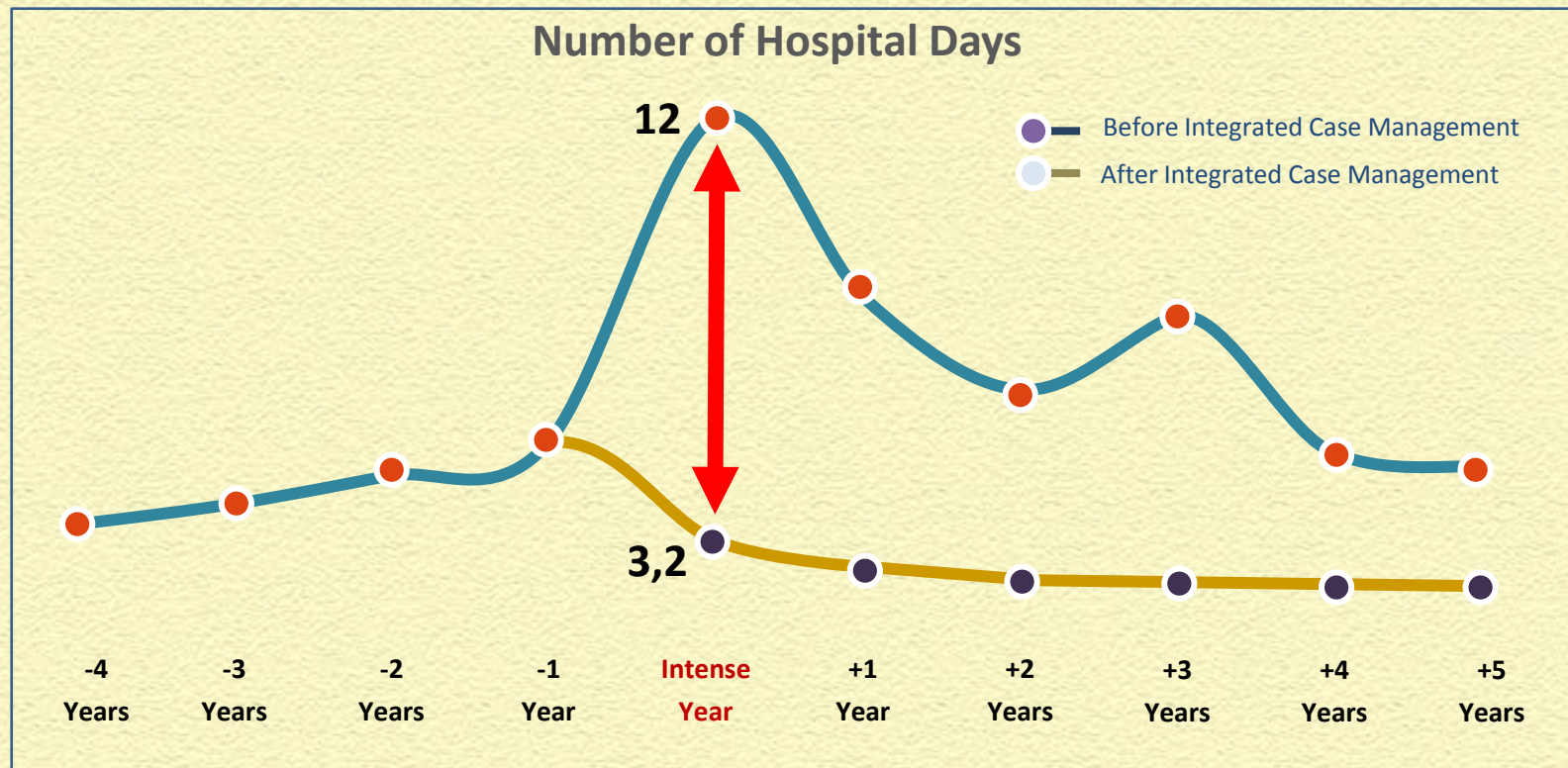
Coordinating care levels to keep patients at home

Managing individual cases, not just a disease



Valencia – La Fe

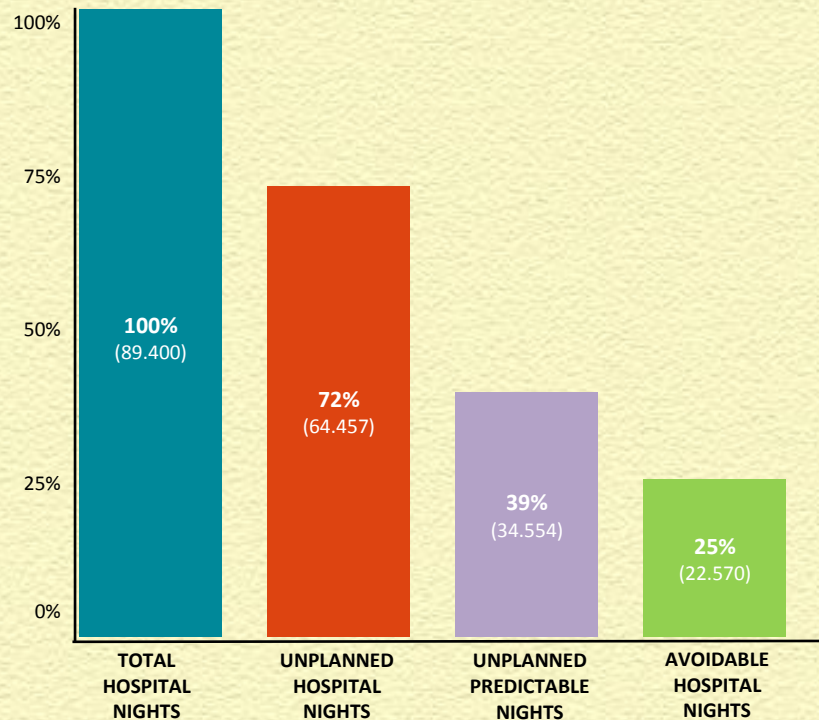
Clinical Trial & Preliminary Results



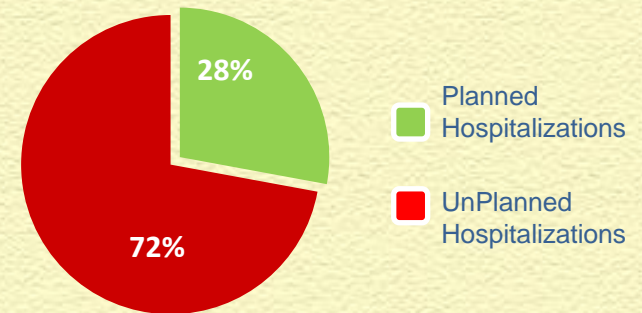
(*) Source: Roger Halliday, Department of Health for England

Valencia – La Fe

Clinical Trial & Preliminary Results



From...



To...

