





PATIENT SAFETY STRATEGY FOR THE NATIONAL HEALTH SYSTEM OF SPAIN

Main achievements: 2005-2007

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SPANISH NATIONAL HEALTH SYSTEM







SPANISH NATIONAL HEALTH SYSTEM

GENERAL PRINCIPLES

Social / interterritorial equity

 Integration of all health care networks under the NHS umbrella

Oriented to the citizens:

rights and duties

FUNDAMENTAL FEATURES

Universal coverage

Extensive benefits

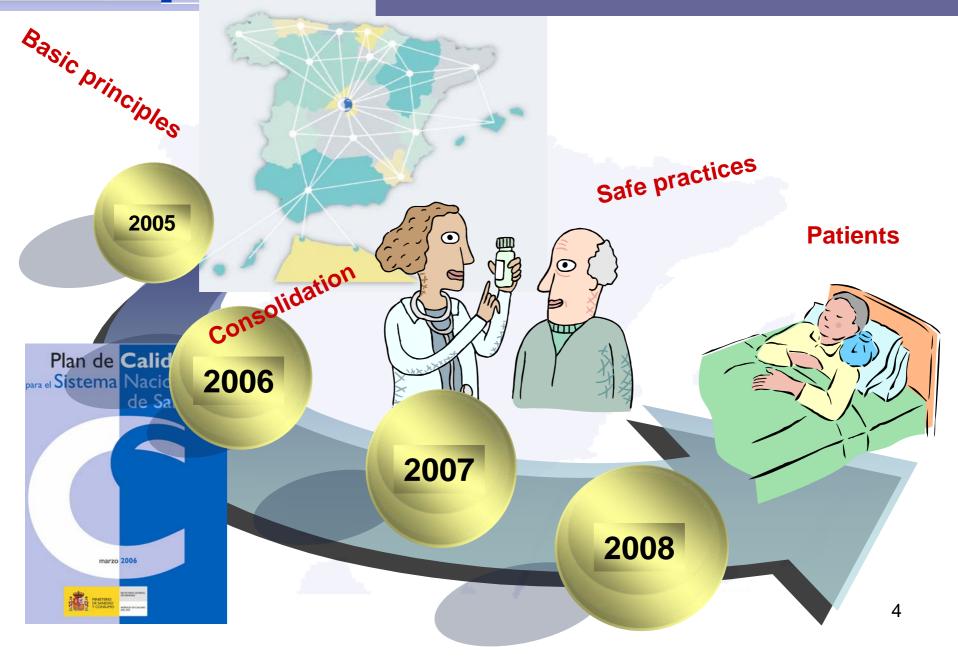
 Descentralised management

Public funding



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STRATEGY DEVELOPMENT





MINISTERIO DE SANIDAD Y CONSUMO





Country	AUTHOR & Year	N⁰ HOSPITALS	Nº Patients	% AE
USA (New York) (Harvard medical practice study)	Brennan 1984	51	30.195	3,8
USA (UTAH-COLORADO) (UTCOS)	Thomas 1992	28	14.565	2,9
AUSTRALIA (QAHCS)	Wilson 1992	28	14.179	16,6
FRANCE	Michel 2005	71	8.754	5,1
NEW ZELAND	Davis 1998	13	6.579	11,3
SPAIN (ENEAS Study)	Aranaz (MoH) 2006	24	5.624	9,3
CANADA	Baker 2002	20	3.720	7,5
DENMARK	Schioler 2002	17	1.097	9
UK	Vincent 1999	2	1.014	11,7

That means 450.000 adverse events/year in Spain

Spain's National Strategy for PS. Main Components

- Raising Awareness: Information-Sensibilization
- Education-Training: leaders, managers, clinicians, researchers, patients
- Infrastructures and human resources: risk management units
- Safe Practices implementation
- Establishing Networks and Alliances: Professionals, patients, organizations (national and international)
- Information systems / evaluation /measurement
- Research Promotion and capacity building

BUDGET 2005-2007 45 M €



International Conferences, workshops, seminars...



www.msc.es/conferencia-seguridaddelpaciente



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www.plandecalidadsns.es







Training in PS for professionals

MASTER IN PS: <u>1600 hours</u> •Concepts. Epidemiology •Risk Management. Quality •Clinical Practice and EBM •Medication Errors •AEs analysis •Legal aspects •Communication		TER 30
RISK MANAGEMENT: <u>150 h</u> •Risk Management tools •Electronic resources for R •Epidemiology and Prevent AE •EBM	M	250
BASIC CONCEPTS: <u>30 hours</u> •AE, errors, etc. •Risk Management. •Notification systems •Communication •International Strategies	BASIC	5000





RESOURCES FOR TRAINING AND EDUCATION

1. e-room, didactic materials & documents

2. Newsletter, blog, interactive resources (WEB 2.0)

3. PS Online training resources

Web based integrated electronic platform







Patient Safety & Adverse Event Prevention: Training materials for graduate and post-graduate levels

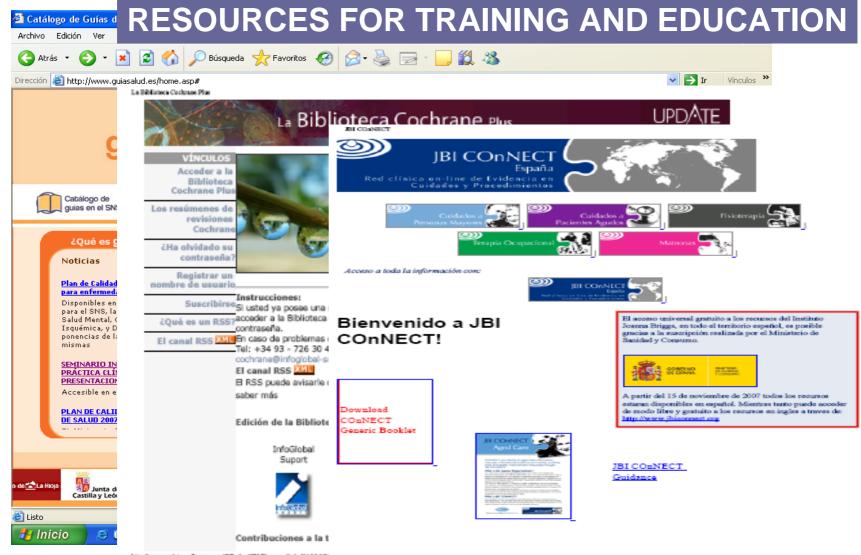
CD and downlable tutorial

- Resources forTeachers & Students
- Powerpoints
- Case studies
- Quizes and tests
- Bibliographic references and links

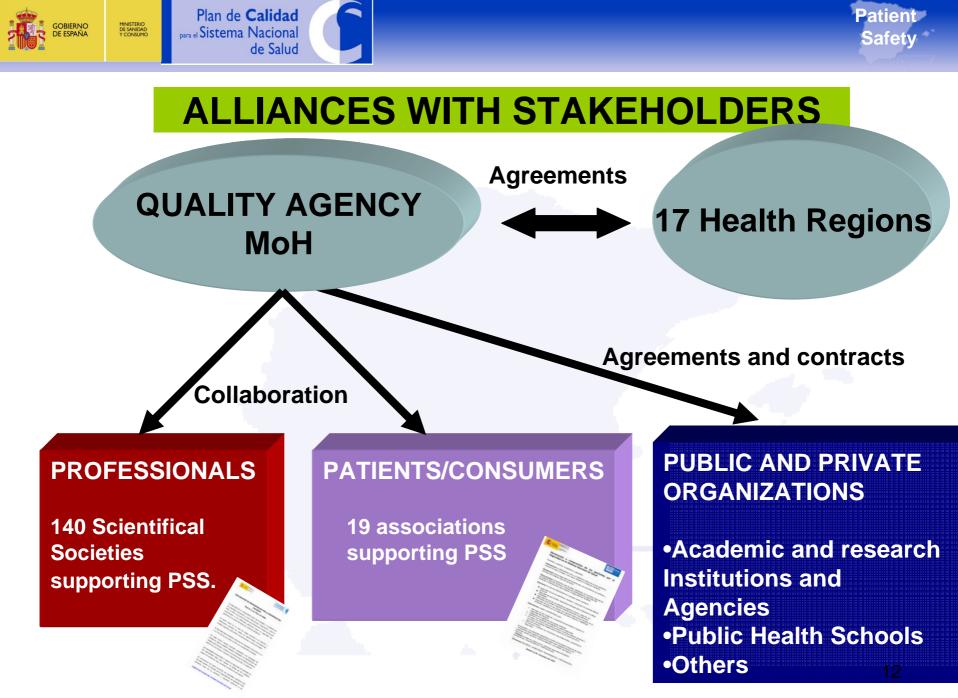








http://www.update-exflwrere.com/Cilbples/ClibFlas.asp (1 de 2)05/10/2







Strategic proyects included in the HR contracts with the MoH

Years :	2005	2006	2007
Studies of Aes in	n Hospitals	S (56%)	
	F	and hygiene (94%)	
Identifi	cation Sys	stems for hospitalise	d patients (89%)
		Safe clinica	I practices (83%)
Info	rmation an	d Training in Patient	Safety (89%)
		Creation of Risk I	Management Units (94%)
		Perception professionals(33%)	
		Aes estudies in PC (89%)	
			Safe Practices in PC (89%)



SAFE PRACTICES

MINISTERIO DE SANIDAE Y CONSUMO Plan de Calidad

de Salud

para el Sistema Nacional





 Anaesthesia-related complications •Hip fractures in surgical patients Pressure ulcers in hospitalized patients •PTE/ DVT in surgical patients Surgical wound infection Hand hygiene •Wrong-site surgery Medication errors Chronic and palliative care Mother and baby care •Ensure patients' last wishes



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Organización Mundial de la Salud

INTERNATIONAL



AGENCIA ESPAÑOLA DE COOPERACIÓN INTERNACIONAL

- IberoAmerican network in PS
- Involvement in WHO global alliance
- Participation in working groups
 OECD:



- European Commission







Committed to the WAPS





Patient

Safety









RESEARCH

– National Research Programme (Grants)

2006: 1,5 mill €(400 projects, 20 PS) 2007: 4,5 mill €(600 projects, 60 PS) 2008: 6 mill €

– Cochrane Review Group in Patient Safety

– Specific studies (Contracts)

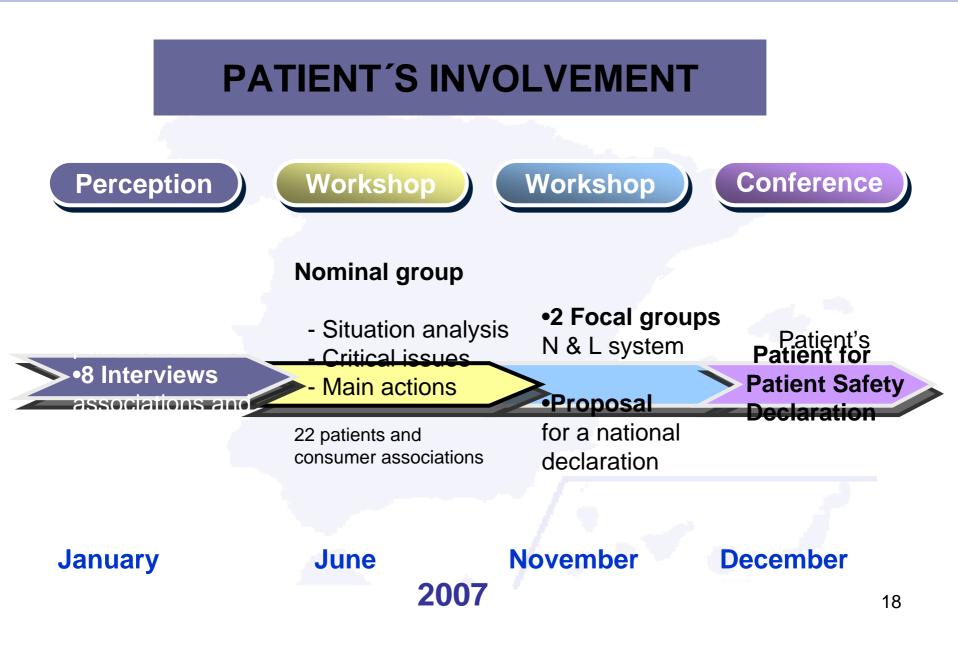
International Studies

-IBEAS -Blood stream infections - EUNetPaS

- ENEAS (Hospitals): 8,4% (CI, 95%: 7,7 9,1)
- APEAS (Primary Care): incident prevalence of 17.93 ‰ (CI 95%: 17.09‰ 18.77‰) composed of near-misses (7.82‰) and AE (10.11‰).
- Nosocomial infection prevalence
- Medication system: ISMP Questionnaire
- •Perception and quality of life studies (patients)
- Professionals perception (AHRQ)
- Complaints and suggestions
- Validation of the NQF indicators
- Cost studies
- Safe practices to prevent AEs













Our national health system is pretty safe **but** there is still room for further improvement



The improvement actions should be focused on: medicaments use, technical procedures, health care associated infection and effective communication



Patients are demanding: information, training, participation and empowerment



Main obstacles: lack of safety culture, training, communication skills and resistance to change.



Cultural change must reach managers, clinicians, patients and citizens.







NEXT STEPS

- Consolidation of the actions already undertaken
 - Implementation of new actions
- Impact measurement
- Communication of results
- Dissemination of the Patient Safety Culture

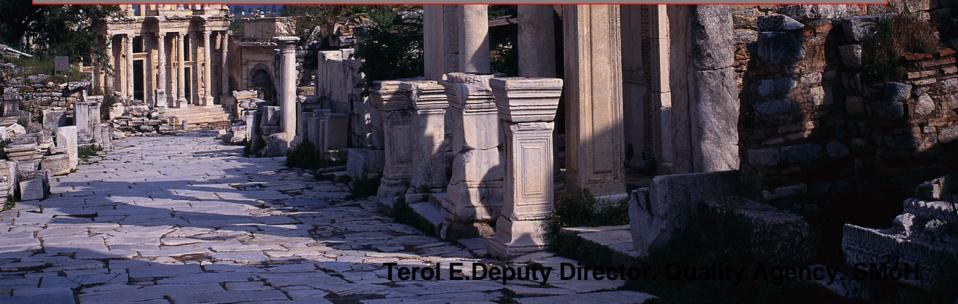
SETTING PATIENT SAFETY AS AXIS OF :

Health Policy Clinical practice



Patient Safety Information System

Assessing AHRQ and OCDE PSI in Spain







Objective:

To analyze, at national level, the feasibility and validity of the patient safety indicators (PSI) according to the recommendations of the AHRQ and OECD

AHRR Agency for Healthcare Research and Quality Advancing Excellence in Health Care OECD (



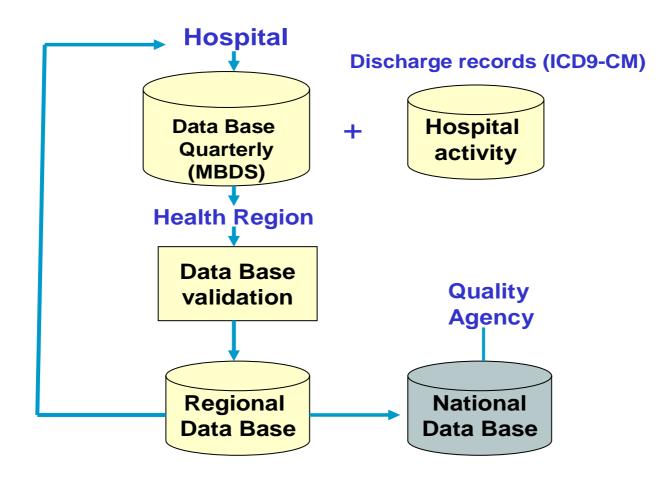


Methods:

- ✓ In Spain, data for indicators calculation are obtained from the National Minimum Basic Data Set (MBDS) that uses the ICD-9-MC codification system. (Is mandatory for all the public hospitals)
- ✓ MBDS and population data were analyzed in order to calculate the indicators according to inclusion and exclusion criteria and feasibility.
- ✓ Other secondary sources of data were used for comparability.
- ✓ A validity study was carried out based on the CMBD data of 12 HRs in the period 2003 -04. In addition, the variability of the indicators was also assessed.



Minimum Basic Data Set







PSI secondary sources:

- ICU ENVIN: Incidence of HCAI in intensive Care Units
- EPINE : National Prevalence Study of HCAI in Hospitals
- **GNEAUPP** : Research Group for the study of pressure ulcers at national level
- NTSP : National Transfusion Surveillance Programme







Patient Safety Indicators Tested 2005

Decubitus ulcer

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Complications of anesthesia

Postoperative hip fracture

Postoperative PE or DVT

Postoperative sepsis

Technical difficulty with procedure

Transfusion reaction

Foreign body left in during procedure

Birth trauma - injury to neonate

Obstetric trauma – vaginal delivery

Obstetric trauma - caesarean section







AHRQ - OCDE national PSI results

Indicators 2005	MBDS National Rate	VC (providers)	Other Sources	Remarks
Infection due to medical care	0.1463 %	0,54	NCI (EPINE): 8.1 % ICU (ENVIN): 14.20 %	MBDS: Underreporting ICU: Specific study of incidence in 105 Units (97 Hospitals, 11,684 patients) EPINE: Specific study of prevalence
Decubitus ulcer	0.7956 %	0,46	GNEAUPP: 8.24 % (95% CI: 7.67-8.85)	MBDS : Underreporting. High inter-hospital variability GNEAUPP: specific study of prevalence. Different exclusion and inclusion criteria
Complications of anaesthesia	0.0089 %	0,33		Difficulty reporting E codes
Postoperative hip fracture	0.0048 %	0,23		Adequate data
Postoperative PE or DVT	0.2614 %	0,54		Underreporting. High inter-hospital variability
Postoperative sepsis	0.4181 %	0,54	Bacteraemia (EPINE): 5.56 %	MBDS : Underreporting. High inter-hospital variability EPINE: Different inclusion criteria
Technical difficulty with procedure	0.1655 %	1,05		Underreporting.
Transfusion reaction	0.0003 %	0.17	NTSP: 0.067 %	MBDS: High inter-hospital variability NTSP: Specific programme. Different denominator (175 Hospitals)
Foreign body left in during procedure	0.0049 %	0,51		Possible underreporting
Birth trauma - injury to neonate	0.5209 %	0,80		Possible underreporting
Obstetric trauma – vaginal delivery	1.1985 %	0,44		Possible underreporting High inter-hospital variability
Obstetric trauma - caesarean section	0.2806 %	0,49		Possible underreporting

VC: Variation Coefficient; ICU: Intensive Care Unit; NCI: Nosocomial Infection; EPINE : National Prevalence Study of nosocomial Infection;.GNEAUPP : Research Group for the study of pressure ulcers at national level; NTSP : National Transfusion Surveillance Programme



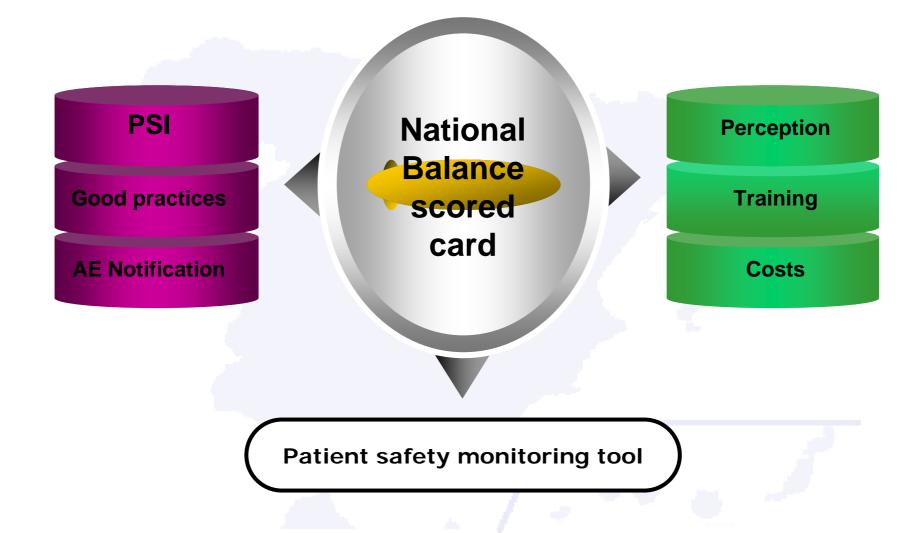


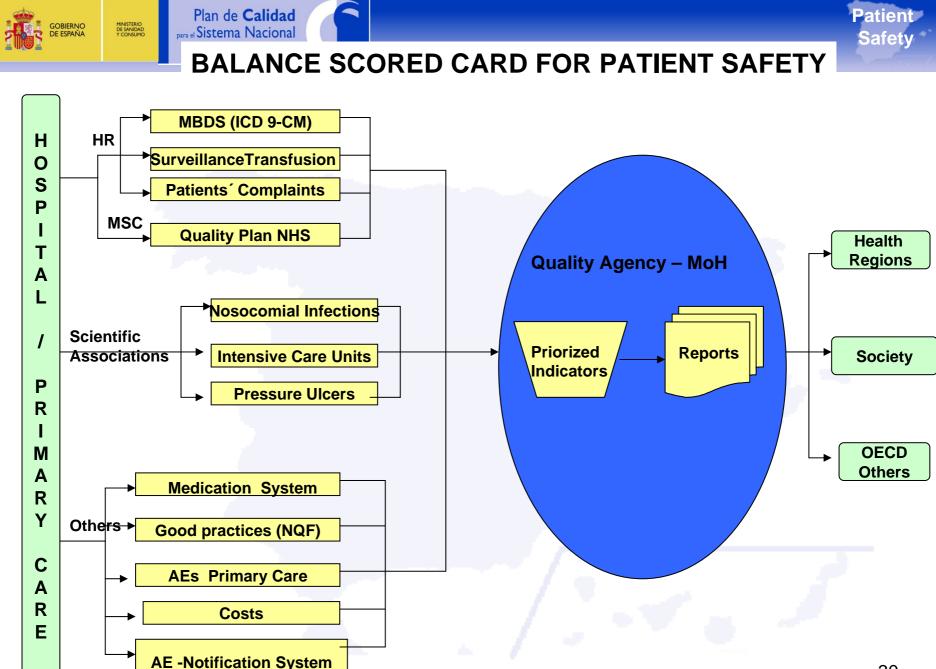


Indicators 2005	Recommendations	
Infection due to medical care	Use of other source of data in parallel	
Decubitus ulcer	Inclusion of the nursing report for codification	
Complications of anesthesia	Inclusion of the anaesthesia report for codification	
Postoperative hip fracture	No problems with the codification. There are problems with the date of the surgery	
Postoperative PE or DVT	It should be necessary to review the clinical record	
Postoperative sepsis	Use of other source of data in parallel	
Technical difficulty with procedure	Inclusion of the surgical report for codification	
Transfusion reaction	Use of other source of data in parallel	
Foreign body left in during procedure	Inclusion of the surgical report for codification	
Birth trauma - injury to neonate	Only clinical records for neonates in some Hospitals. It is necessary to improve clinical records for neonates	
Obstetric trauma – vaginal delivery	Most women deliver in private Hospitals. It is necessary to improve codification in private Hospitals	
Obstetric trauma - caesarean section	Most women deliver in private Hospitals. It is necessary to improve codification in private Hospitals	











- The hospital MBDS allows construction of PS indicators through agreement of standards at national level.
- Common ICD-9-CM codification: high coverage and high expertise in codification in public hospitals are clear advantages of the data set
- Underreporting and High inter-hospital variability are a common problem (Discharge records and clinical records are frecuently incomplet)
- Promotion of use of secondary records (nurses, lab, surgery records etc.) not now used as a source for codification.
- Discharge and clinical records do not usually include adverse events or near misses.
- Complementary sources are necessary in order to achieve more accurate data to assess PS.
- PSI have to be validated and adapted locally.

Patient safety: a long but beautiful road to clinical excellence

Thank You



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