



# PHC: Present day and future challenges

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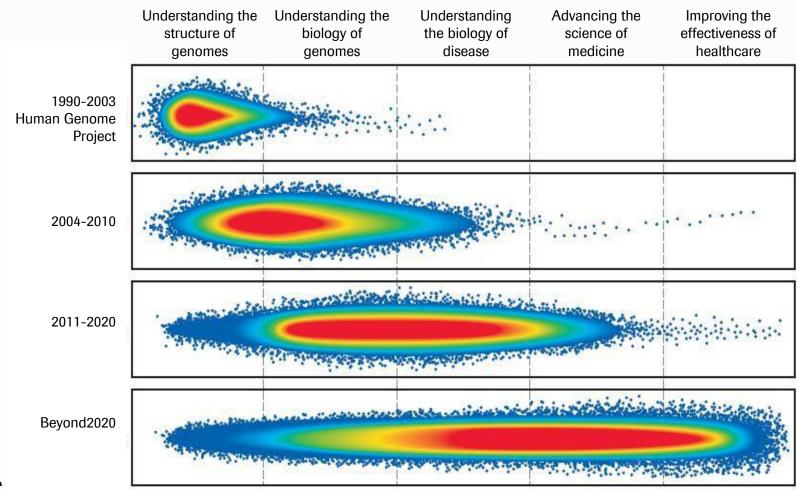
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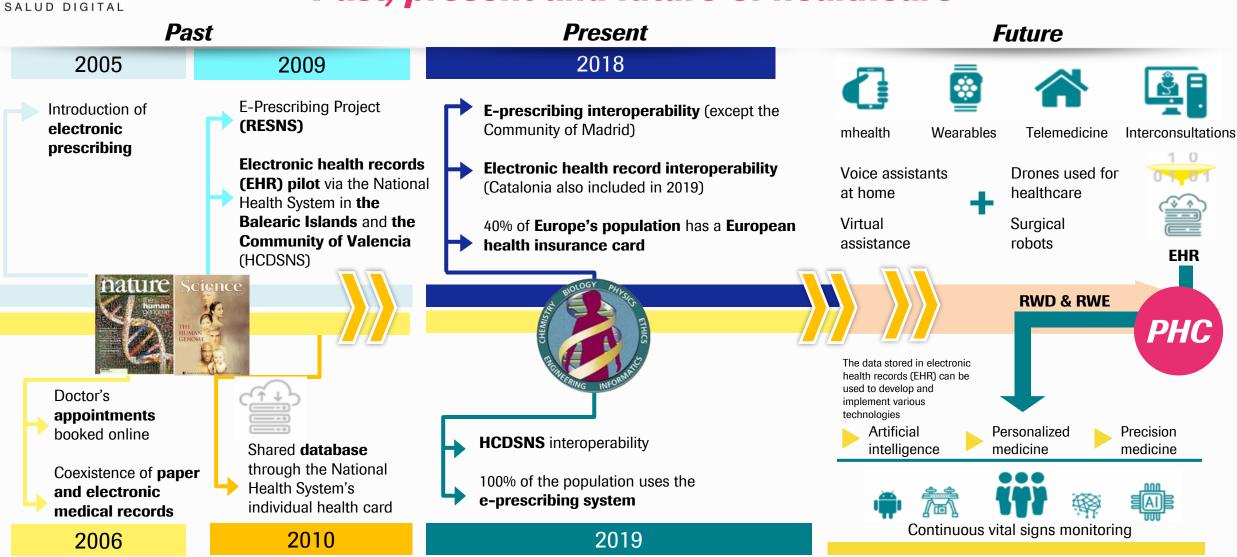
Diálogos**PHC** 







## Past, present and future of healthcare





# The digitalization of medicine in Spain

### Present

The WHO recommends 8 prenatal care visits during pregnancy

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Spain's Advisory Committee on Vaccines recommends administering 11 vaccines



30% of young people between the ages of 15 and 29 have a mental health disorder



17% of women forget to take their birth control pill once a week



The average wait time for an outpatient consultation is 57 days

**59**% of diagnostic tests are duplicated



21% of admissions are due to adverse drug reactions

The National Health System treats 21.5 million emergencies each year, and 11.3% require hospital admission

**50**% of people over 65 have a chronic illness. representing 75% of total healthcare spending





57



59%

21%









**BIG Data** 



**RWD** 

Personalized medicine



Artificial intelligence

21,5M





Healthcare professionals have access to data to monitor the entire pregnancy, not just during prenatal care

**Electronic** immunization records prevent duplicate or missed vaccines



EHR and telemedicine provides instant contact and information to minimize episodes



Reminders from apps and eHealth connected to the EHR prevent medication mistakes made by patients



**Teleconsultations** require less time and fewer resources for medical care

**Prescriptions** and diagnostic tests are optimized





Prescription information in the **EHR** reduces the possibility of adverse reactions



Telemedicine and eHealth reduce inperson follow-up care, optimizing time and resources



















PRESENT DAY AND FUTURE CHALLENGES







## The human body is the primary data platform



#### **PREVENTION**

Understanding genetic predisposition Genetic testing Lifestyle -Preventive medicine Monitoring Vaccines Early detection - Diagnostic biomarkers Specialized consultation

### **PATIENT CENTERED**

Genomic data Phenotypic data Medical records

#### **GENERAL**

Al learning by analyzing anonymized data Al to transform data into usable information Existing knowledge of treatments

#### **START**

Directly to the specialist/hospital if predisposition is identified

#### **SECONDARY CARE**

Smart facilities/hospitals for specialized care Smart postoperative care Smart long-term care Fully digitized records Hospitals of the future

#### **MONITORING**

Continuous



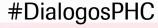
**Ethics** 

**PHC** 

Legality

#### **NEW GENERATION OF SMART TREATMENTS**

Genome editing; Custom prescriptions; Better use of medications; Smart drugs to improve efficacy; Smart devices to ensure compliance/adherence; Smart surgical procedures - remote, minimally invasive



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Thank you