



# **FISABIO**

## PUBLIC HEALTH

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## VACCINES

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### **HEAD OF RESEARCH SECTION**

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## OBJECTIVES

Study of the impact of infectious diseases that are candidates for prevention by means of vaccination on society in terms of burden of disease, burden on society and economic costs. Studies on the effectiveness of vaccines included in the routine immunization schedule, analysing the epidemiology of disease before and after vaccine introduction. Clinical development of vaccines, conducting studies on vaccine efficacy and safety and designing and carrying out studies (clinical trials) for the purpose of adjusting vaccine schemes so that they are integrated in the immunization schedule as efficiently as possible. Mathematical modelling of infectious diseases to estimate how they can be impacted by different vaccines and immunization schedules.

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## AREAS OF RESEARCH

### **AREA 1.** Epidemiology.

Development through networks of researchers strategically positioned in primary care and hospital settings. Use of preexisting databases.

### **AREA 2.** Clinical trials.

Performance of clinical trials of interest to public health in collaboration with the industry, providing information to health care technicians for the purpose of conducting the studies. Monitoring of our own clinical trials by an external CRO.

### **AREA 3.** Vaccine modelling, economics, evaluation and safety.

Development of mathematical models of infectious diseases to estimate how they can be impacted by different vaccines and immunization schedules. Analysis of the efficiency of different vaccination schemes and their recommendation. Pharmacoeconomic analysis. Analysis of vaccine safety and serious and rare adverse events in collaboration with other departments of the Centro Superior de Investigación en Salud Pública (CSISP) through the use of health care databases. Studies of the effectiveness of different strategies to fight infection threats at the population level, such as the expected influenza pandemic, bioterrorists attacks, etc.

“New vaccines for a new society.”

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