



MOROCCO



6th Mena Influenza Stakeholders Meeting

Organized by Fondation Mérieux

Prague, Czech Republic
6-7 April 2017

Jalal NOURLIL

Medical Virology and BSL-3 Laboratory
Institut Pasteur Morocco - Casablanca

Zahra DAHBI

Service of Epidemic Diseases
Directory of Epidemiology and Diseases Control - Rabat



OBJECTIVES FOR THE UPCOMING 3 YEARS

- * Promotion of prevention;
- * Improve influenza surveillance and disease burden data
- * Increase vaccination coverage rates in pregnant women, people at risk, elderly and children
- * Strengthening pandemic preparedness and response capacities;
- * Operational research and publications

ACTION PLAN COMPONENTS UPDATE (1)

COMPONENTS / Actions	2017 – 2018 Future actions to attain (to be completed in September)	Challenges
SURVEILLANCE	<p>Strengthening regional laboratory capacities for influenza diagnosis 8 Regional labs (reagents – training)</p> <p>Implementation of an Event-based Surveillance for Influenza</p> <p>Produce evidence on burden disease by risk group: Structuring one sentinel Hospital University site</p> <p>Establishment of exhaustive SARI surveillance in hospitals (including UH) at national level</p> <p>Establish a global estimates of influenza-associated mortality and hospital burden</p>	<p>Financial barriers</p> <p>Staff Training</p> <p>Communication tools</p>

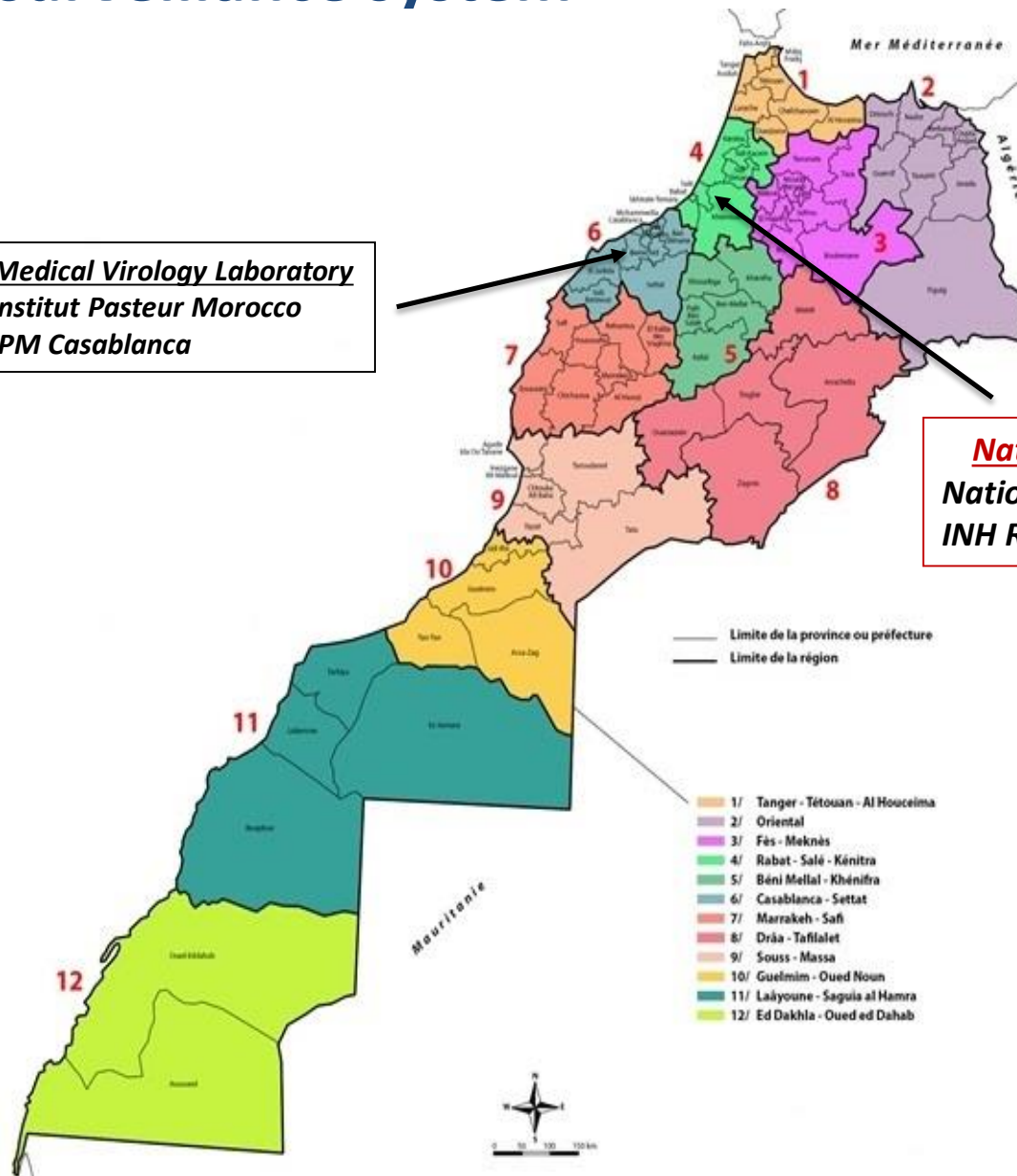
Influenza surveillance system



**Medical Virology Laboratory
Institut Pasteur Morocco
IPM Casablanca**



**National Influenza Center
National Institute of Hygiene
INH Rabat**



Influenza surveillance system

Laboratory Network

- * **8 Regional Laboratories / HC**

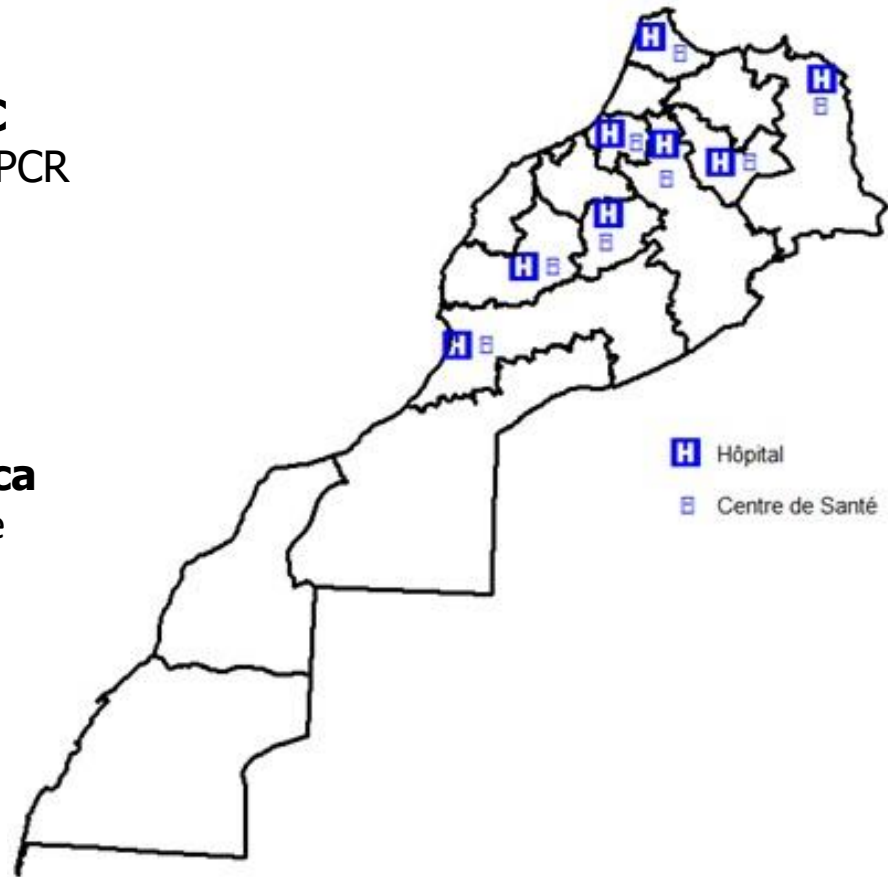
Detection and identification by RT-PCR

- * **NIC - Rabat**

Confirmation RT-PCR, culture, sequencing, antiviral resistance

- * **Pasteur Institute - Casablanca**

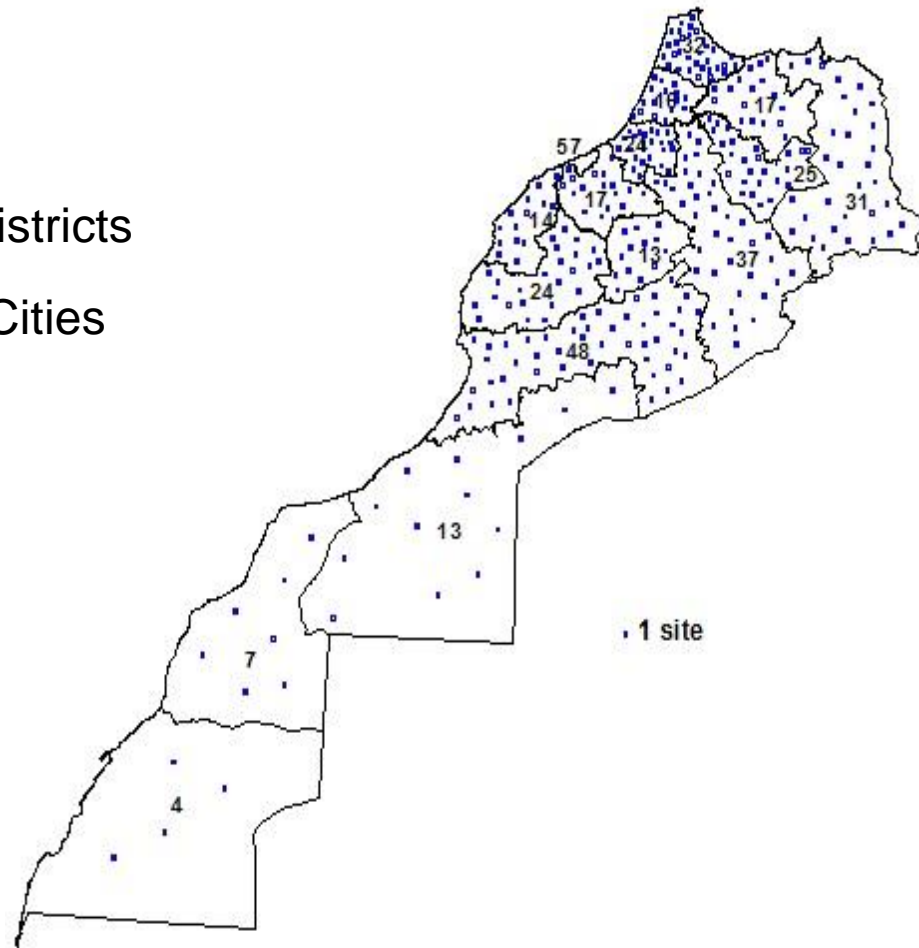
Detection & Confirmation, Cell culture
Sequencing, antiviral resistance



Influenza surveillance system

ILI Surveillance (2004)

- 380 Health Centers in all districts
- 100 private physicians : 9 Cities

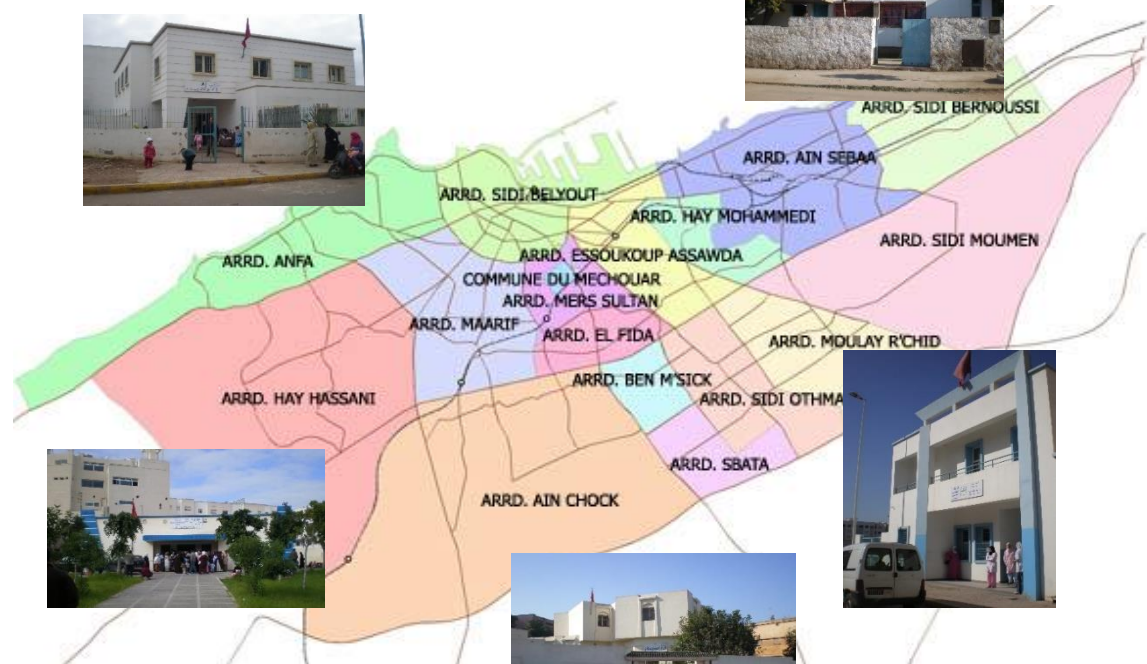


Influenza Virological Surveillance Casablanca

Public Health Unit



Children's Hospital



Private physicians

BSL-2 LAB



Molecular Biology



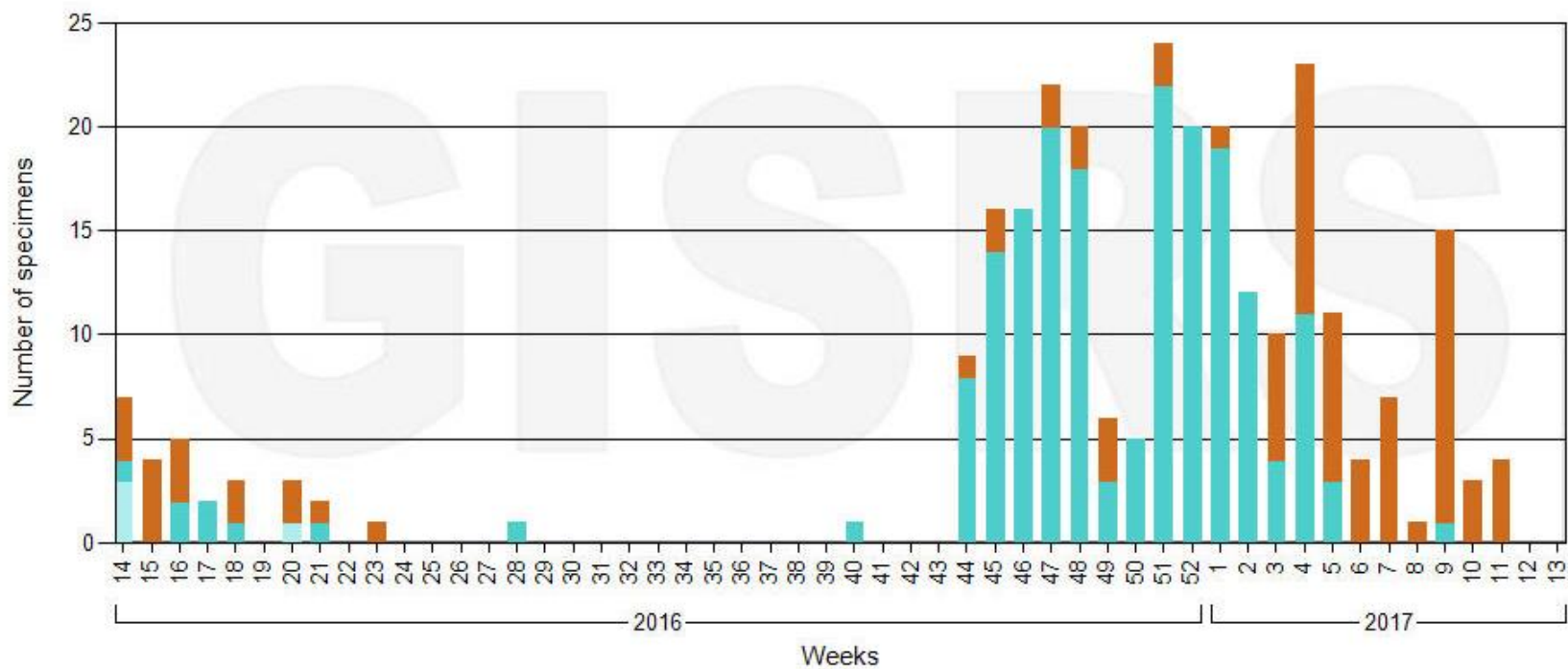
Cell Culture



BSL-3+ LAB

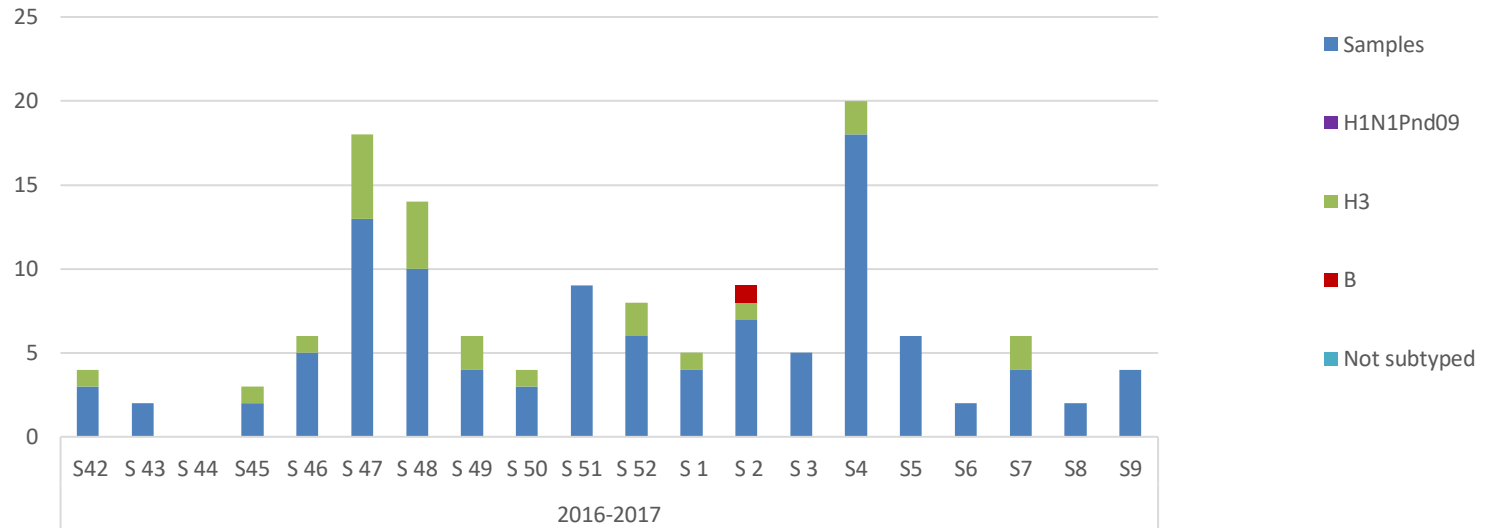


Number of Specimens Positive for Flu by subtype INH - Rabat



Number of Specimens Positive for Flu by subtype

Institut Pasteur - Casablanca



2016 - 2017

Screening of nasal swabs from children in Casablanca with respiratory symptoms

- * **Type of samples:** nasal swabs from patients with ILI
- * **Collection period:** 2014-2016
- * **Collection location:** health care units in Casablanca participating in surveillance of ILI
- * **Amount of samples analyzed:** 200
- * **Method of analysis:**

RespiFinder[®] 2SMART kit from PathoFinder # Pathogen specific in-house real-time PCR



16 RNA virus
2 DNA virus
4 bacteria

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ACTION PLAN COMPONENTS UPDATE (2)

COMPONENTS / Actions	2017 – 2018 Future actions to attain	Challenges
VACCINATION	<p>Produce evidence on acceptability in target groups Finish the focus group study targeting all risk groups in local area Develop KAP study for PW at national level</p> <p>Consolidate the vaccination program for elderly and people with chronic diseases (diabetics) Develop a partnership plan with NGOs Elaborate a funding plan Set up of a vaccination monitoring plan</p> <p>Implementation of pilot vaccination campaign for Pregnant women National Immunization Technical Advisory Groups (NITAG) meeting Develop a communication strategy Carry out cost assessment studies Develop training activities</p> <p>Implementation of pilot vaccination campaign for children under 5 years</p> <p>Convincing policy-makers to develop and expand national influenza vaccination policies.</p>	<p>Vaccine acceptability</p> <p>Lake of national data on the seasonal flu: Burden of disease Vaccine safety Vaccine effectiveness Cost-Benefit</p> <p>Coverage other risk groups</p> <p>Lack of communication strategy about flu vaccine</p> <p>Financial barriers</p>

Press release : pilot vaccination comapign for PW vaccination

Vaccins pour femmes enceintes: les explications du ministère

🏠 Maroc h24info.ma | Publié le 14/01/2017 | 10h15 | H24info



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L'étude "expérimentale" portant sur le vaccin de grippe saisonnière pour femmes enceintes n'a aucun lien avec une quelconque transaction commerciale, a affirmé le ministère de la Santé.

Vaccin pour femmes enceintes : Le ministère s'explique

Publié par ALM Date : janvier 16, 2017 dans: Société Laisser un commentaire

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« Il n'y a pas d'expérimentation d'un nouveau vaccin contre la grippe saisonnière pour femmes enceintes ».

ACTION PLAN COMPONENTS UPDATE (2)

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ACTION PLAN COMPONENTS UPDATE (3)

COMPONENTS / Actions	2017 – 2018 Future actions to attain	Challenges
SOCIAL MOBILIZATION / EDUCATION / AWARENESS	<p>Improving knowledge of influenza and its transmission Conduct a strong media campaign Implementing IEC activities</p> <p>Promotion of behavioral change in relation to risks of infection Awareness of HCW</p>	<p>Spread of rumors</p> <p>Lack of communication plan</p>
ADVOCACY & POLICY	<p>Mobilize and support intersectoral participation Identification of partners</p> <p>Involving NGOs and scientific societies</p>	<p>Resistance of stakeholders</p> <p>Conflicts of Interest</p>

2016-2017



LE MATIN.ma website screenshot showing a news article titled 'Lancement de la campagne de vaccination contre la grippe saisonnière' with a photo of two men at a press conference.

L'Observateur website screenshot with headline 'Grippe, à vos vaccins!' and an image of a person receiving a vaccine.



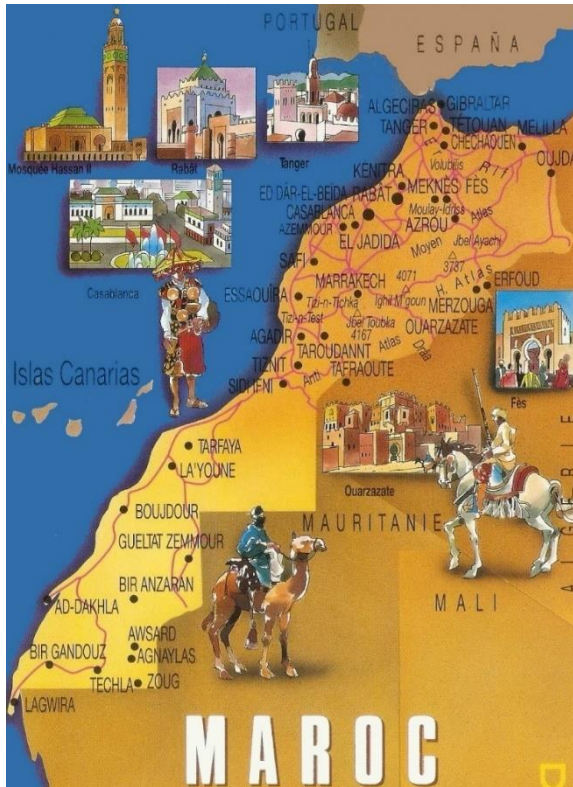
DOCTI News MAGAZINE PROFESSIONNEL D'INFORMATION MÉDICALE article titled 'GRIPPE SAISONNIÈRE Lancement d'une campagne nationale dédiée'.

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ADVOCACY & POLICY	Mobilize and support intersectoral participation Identification of partners Involving NGOs and scientific societies	Resistance of stakeholders Conflicts of Interest

CONCLUSIONS / HIGHLIGHTS

- * Influenza is one of MoH priorities;
- * Sentinel surveillance since 1995;
- * Some gaps need to be improved:
 - Implementation of a burden disease assessment
 - Establish a communication strategy
 - Support for the implementation of vaccination for risk groups



Thank
you

