Evaluation of National Policies of Antibiotic Therapy and Prevention of Antimicrobial Resistance in Public and Private Hospital Pharmacies: The Situation in France

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Background - Aim of the Study

France is one of the largest consumers of antibiotics in Europe and bacterial resistance in France is high. On 2008, Haute Autorité de Santé (HAS) promoted use and implementation of antibiotic guidelines, focusing on institutional players such as pharmacies .The aim of the study is to analyse the professional practices of hospital pharmacies concerning antibiotic therapy to HAS guidelines

on. Guidelines- Haute Autorité de Santé – April 2008– Checklists for professional practice appraisal - Haute Autorité de Santé –April 2008

Guidelines and checklists

- The French Health Authority- Haute Autorité de Santé (HAS)- updated in 2008 guidelines related to "Proper use of antibiotics in hospitals". These updated guidelines named "Antibiotic herapy and prevention of bacterial resistance in healthcare organisations" are based on the literature review, the regulatory provisions currently in force in France and expert opinion. They are not ready-made protocols but contain the key elements of a hospital's antibiotic policy
- A companion document on standards for professional practice appraisal accompanies theses guidelines. It is designed to facilitate guideline adoption and implementation by healthcare organisations. This document included 42 criteria with definite objectives for the appraisal of the practices of hospital pharmacies concerning antibiotic therapy

The Study

- 373 hospitals were analysed: 331 were public, 42 were private
- se included the characteristics of the h ine database incuded the characteristics of the hospita e number of beds, existence of surgery, obstetrics, intensi and critical care, psychiatry, long and medium st department, hemodialysis activity
- Statistical methods (SPSS)
 Univariate analysis used Khi 2 test for comparison of qualitative variable (significant difference if p<0,05)

METHODS

		1	∃xam	bles of items					
Criteria	Source	Yes	No	Criteria	Source	Yes	No		
e pharmacy is organised so that it can deliver escribers with antibiotics permitted by COMEDIMS Al / CLIN at all times	Internal document to the pharmacy			A list of the anti-infectives available within the establishment has been drawn up by the CAI	List of available antibiotics	- I es	INC		
e traceability of antibiotic units supplied but not ministered is ensured	Joint pharmacy - clinical departments document			and validated by the COMEDIMS					
e pharmacy validates the nominative prescriptions antibiotics, at least by identifying the patient, escriber, and date of the prescription.	Internal document to the pharmacy			A list of antibiotics with controlled distribution is available	List of antibiotics with controlled distribution				
r antibiotics under controlled dispensation, the	Internal document to the				Internal document of the CAI / pharmacy / microbiology laboratory				
armacy has an internal procedure to check that the escription conforms with CAI recommendations d even the opinion of the advisor	,			Audits have been performed on compliance with the written antibiotic therapy protocols (hardcopy, intranet) - results are provided	Report of CAI activities or audit report				
ere is an information management system, which accessible to health professionals within the lablishment. It gives an updated list of antibiotics allable from the pharmacy, guidelines on good ministration practices, and daily treatment costs	Internal document to the pharmacy Information system/network			The antibiotic therapy prescribed complies with the protocol used in the department or with the specialty's guidelines	PF Nominative prescription Antibiotic protocols	0			
tibiotic use is expressed in the form DDD (defined lly dose) per 1000 days of hospitalisation	Report with data on usage	0	0	continually exchange data in order to monitor the Microbiology laboratory and					
ta on the monitoring and analysis of antibiotic use main medical activities or by centres of ponsibility in the healthcare organisation) are nsmitted at least once yearly to COMEDIMS, IN, CAI, CME, clinical departments and sectors	Internal document to the pharmacy			Controlled dispensation antibiotics COMERDIA: Commission des deficientes et des Dispositifs Médicaux Stérées (Commisse for Médicairal Products and Starle Medicairal CAI: Commission des adél-infectiour / commission des adel-infectiours (Commisse for anti-infectiours / Commisse for antibiotiques (Commisse for anti-infectiours / Commisse for antibiotiques (Commisse for anti-infectiours / Commisse for antibiotiques (Commisse for anti-infectiours on desputial refusions) ICATE. Indice composite de bon usage des antibiotiques (Composite index on proper use of antibiotics) CAIE: Commission indiciale d'établissement l'hossibal beloria Commisses.					
e data on use of antibiotics are presented to the U and the CLIN at least once yearly	Document transmitted to the CAI and CLIN	0		(rospital in					
e data on antibiotic use are transmitted to the nical departments at least once a year	Document transmitted to the clinical departments								

RESULTS

.The pharmacies have a process	s of management and storage of antibiotics		47%	
•	within hospitals with surgical activities	$61\% \ (p=0,0001)$		`
	within hospital with intensive care units	58% (p=0,0001		
The pharmacy supply and upda				
	the list of antibiotics available		90%	
	the best practice guidelines		68%	
	57% if less than 300 beds			
	86% if more than 300 beds			
	the daily treatment costs		38%	
.The pharmacy information sys	81%			
.The list of the anti –infectives	available within the hospital is drawn by			
	- the committee for anti-infectives		35%	
	- the committee for medicinal products and sterile medici	ıl devices	83%	
	- the committee for prevention of hospital infection		46%	
The pharmacy has an informat	tion system which cooperate with the microbiology laboratory	and the clinical departments	60%	
The pharmacy may an imprima	n 300 beds			
.The pharmacist dispenses antib	biotics after analysis of the prescription i.e		00.6	
	always after -identification of the patient		80%	
	always after identification of the day of the prescription		77%	
	always after identification of the prescriber		76%	
	dose of antibiotic		79 %	
. A list of antibiotics with contro	olled distribution exits in the hospital		54%	
	in hospitals with surgical activities	$71\% \ (p=0,0001)$		
	in hospital with intensive care units	75% (p=0,0001)		
.The information system enable	es the traceahility			
. The imorniation system chapte	of prescription		88%	
	of dispensing		85%	
	of administration		86%	
			63%	
	of return to the pharmacy of the units not administered		03%	
DDD is used for consumption of antibiotics			76%	

CONCLUSION