

# OMA chez les enfants avec tubes de tympanostomie : traitement antibiotique topique ou systémique ?

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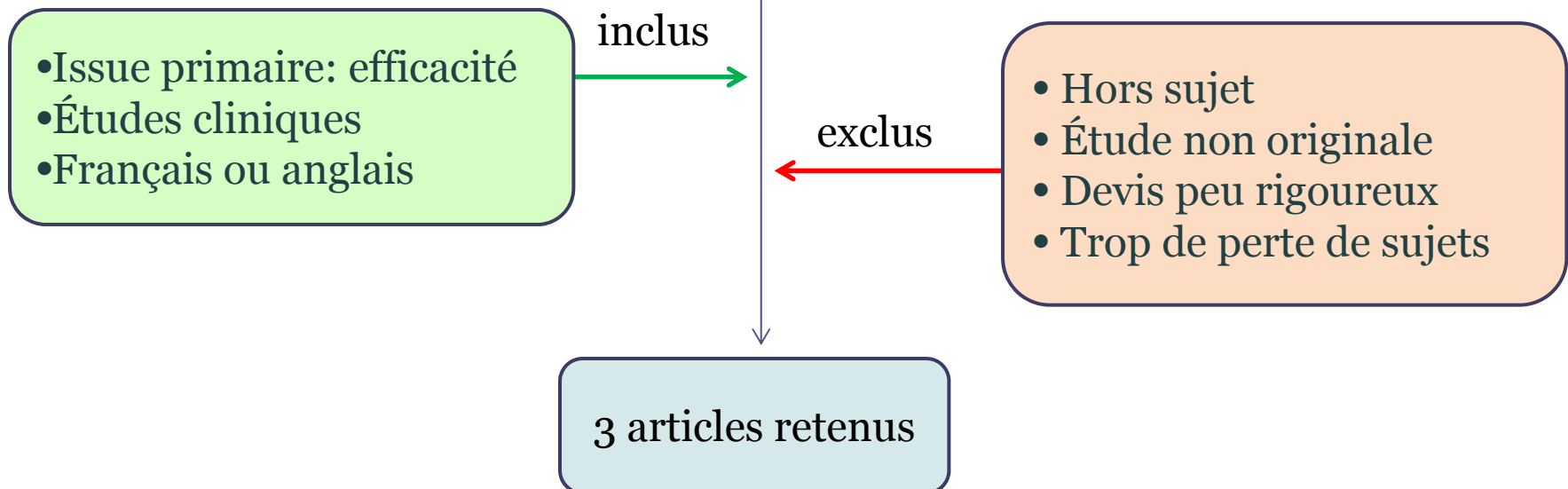


# Introduction

- Intervention très répandue
- Otorrhée secondaire à une OMA
  - une complication fréquente

# Méthodologie

Suppurative otitis media/therapy [majr]		tympanic membrane perforation [mh]	N = 8
otitis media/therapy [majr:noexp]	Acute [tiab]	otorrhea[tiab]	
		tympanostomy [tiab]	
otitis media/drug therapy [majr]		middle ear ventilation[mh]	
		tube[tiab]	



# Étude 1

## PEDIATRICS®

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**Topical Ciprofloxacin/Dexamethasone Superior to Oral Amoxicillin/Clavulanic Acid in Acute Otitis Media With Otorrhea Through Tympanostomy Tubes**  
Joseph Dohar, William Giles, Peter Roland, Nadim Bikhazi, Sean Carroll, Roderick Moe, Bradley Reese, Sheryl Dupre, Michael Wall, David Stroman, Celeste McLean and Krista Crenshaw

*Pediatrics* 2006;118:e561; originally published online July 31, 2006;  
DOI: 10.1542/peds.2005-2033

# Étude 1 - Méthodologie et Résultats

Type	Population	Intervention	Résultats
RCT	# patients : 80	Ciprofloxacin-dexamethasone 4 gouttes BID X 7 jrs  Amoxicillin-Clavulanate 90 mg/kg/jr ÷ BID X 10 jrs	Taux de guérison :  85%  59%

# Étude 1 - Discussion

Randomisation	
Groupes comparables	
Dissimulation de la répartition	
À l'insu	
Pertes au suivi	0%
Validité externe	
Analyse en intention de traiter	oui
Autre biais ?	

# Étude 2



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## Topical Ciprofloxacin Is Superior to Topical Saline and Systemic Antibiotics in the Treatment of Tympanostomy Tube Otorrhea in Children: The Results of a Randomized Clinical Trial

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Anders Heslop, MD; Torben Lildholdt, MD, DMSc; Niels Gammelgaard, MD; Therese Ovesen, MD, DMSc

## Étude 2 - Méthodologie et Résultats

Type	Population	Intervention	Résultats
RCT	# patients : 68	Ciprofloxacine 4 gouttes BID x 7 jrs Amoxicilline 25-50mg/kg/jr ÷TID x 7 jrs Rinçage avec solution saline TID x 7 jrs	Échec du traitement : 23 % 70 % 58 %



# Étude 2 - Discussion

Randomisation	
Groupes comparables	
Dissimulation de la répartition	
À l'insu	
Pertes au suivi	0%
Validité externe	
Analyse en intention de traiter	oui

# Étude 3

*The* NEW ENGLAND JOURNAL *of* MEDICINE

ORIGINAL ARTICLE

## A Trial of Treatment for Acute Otorrhea in Children with Tympanostomy Tubes





Thijs M.A. van Dongen, M.D., Geert J.M.G. van der Heijden, Ph.D.,  
Roderick P. Venekamp, M.D., Ph.D., Maroeska M. Rovers, Ph.D.,  
and Anne G.M. Schilder, M.D., Ph.D.

N ENGL J MED 370;8 NEJM.ORG FEBRUARY 20, 2014

# Étude 3 - Méthodologie et Résultats

Type	Population	Intervention	Résultats
RCT	# patients : 230	Hydrocortisone-bacitracin-colistin 5 gouttes TID x 7 jrs	Échec du traitement :  5 %
		Amoxicilline-Clavulanate 30-7.5 mg/kg/jr ÷ TID X 7 jrs	44 %
		Observation x 14 jrs	55 %

# Étude 3 - Discussion

Randomisation	
Groupes comparables	
Dissimulation de la répartition	
À l'insu	
Pertes au suivi	
Validité externe	
Analyse en intention de traiter	oui

# Synthèse

<b>Étude 1</b> <i>Pediatrics</i> 2006		<b>Étude 2</b> <i>Laryngoscope</i> 2010		<b>Étude 3</b> <i>NEJM</i> 2014	
# patients : 80		# patients : 68		# patients : 230	
Ciprofloxacin- Dexamethasone 4 gouttes bid x 7 jrs	15%	Ciprofloxacin 4 gouttes bid x 7 jrs	23%	Hydrocortisone- Bacitracin-Colistin 5 gouttes tid x 7 jrs	5 %
Amoxicillin- Clavulanate 90 mg/kg ÷ bid x 10 jrs	41%	Amoxicilline 25-50 mg/kg ÷ tid x 7 jrs	70%	Amoxicilline- Clavulanate 30-7.5 mg/kg ÷ tid x 7 jrs	44 %
		Rinçage avec solution saline tid x 7 jrs	58%	Observation x 14 jrs	55 %

# Discussion

## Habitudes de pratique

Pediatric  
Emergency Care

Dedicated to the Care of the Ill or Injured Child

### Draining Ears and Tympanostomy Tubes

*A Survey of Pediatric Otolaryngologists and Pediatric Emergency  
Medicine Physicians*

*Vahe Badalyan, MD, MPH, MBA,\* Richard H. Schwartz, MD,\* Shira L. Scwhartz, MD, MPH,\*  
and Peter S. Roland, MD†*

*Pediatric Emergency Care* • Volume 29, Number 2, February 2013

# Discussion

## Acceptabilité - Fluoroquinolones chez les enfants

ARCHIVES OF  
DISEASE IN  
CHILDHOOD **BMJ**

### Ciprofloxacin safety in paediatrics: a systematic review

Abiodun Adefurin,<sup>1</sup> Helen Sammons,<sup>1</sup> Evelyne Jacqz-Aigrain,<sup>2</sup> Imti Choonara<sup>1</sup>

*Arch Dis Child* 2011;**96**:874–880.

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### The Use of Systemic and Topical Fluoroquinolones

John S. Bradley, Mary Anne Jackson and the Committee on Infectious Diseases

*Pediatrics* 2011;128:e1034; originally published online September 26, 2011;

DOI: 10.1542/peds.2011-1496

# Conclusion

Tubes transtympaniques  
+  
otorrhée aiguë non compliquée  
=  
antibiotique topique en première intention





# Remerciements

- Dr Pless et Dr Karazivan pour leur supervision
- Nos collègues R2 pour leurs bons conseils
- Nos collègues R1 pour leur support

Questions ?



# Références

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