



# Augmentin® 875 mg Tablets

**Amoxicillin as trihydrate 875 mg**

**Clavulanic Acid as potassium salt 125 mg**

Zinc code: IL/CAM/0007/16.

Date of preparation: August 2016

Disclaimer: This is an illustrative case study simulating real world experience



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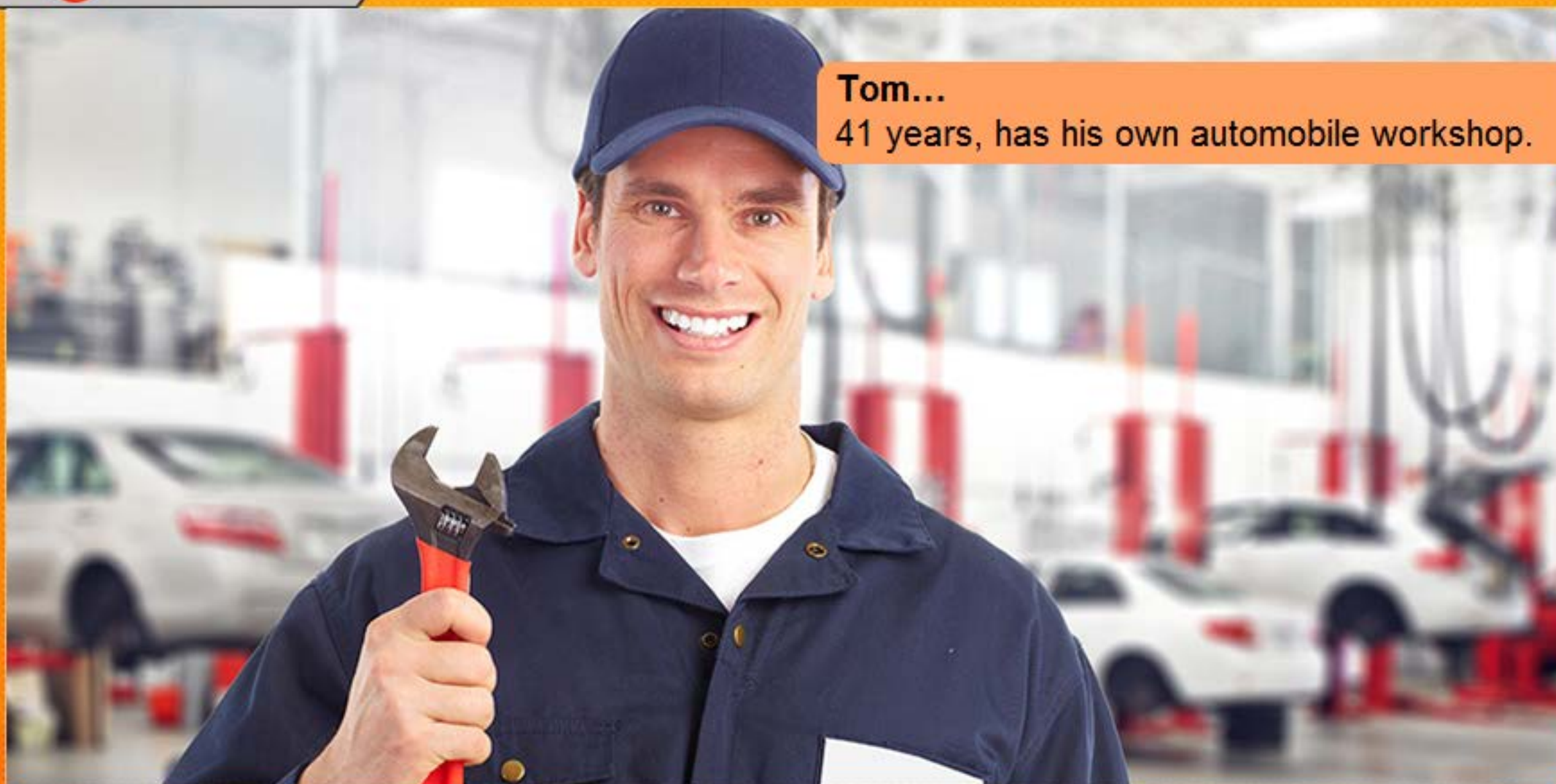


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**Tom...**  
41 years, has his own automobile workshop.



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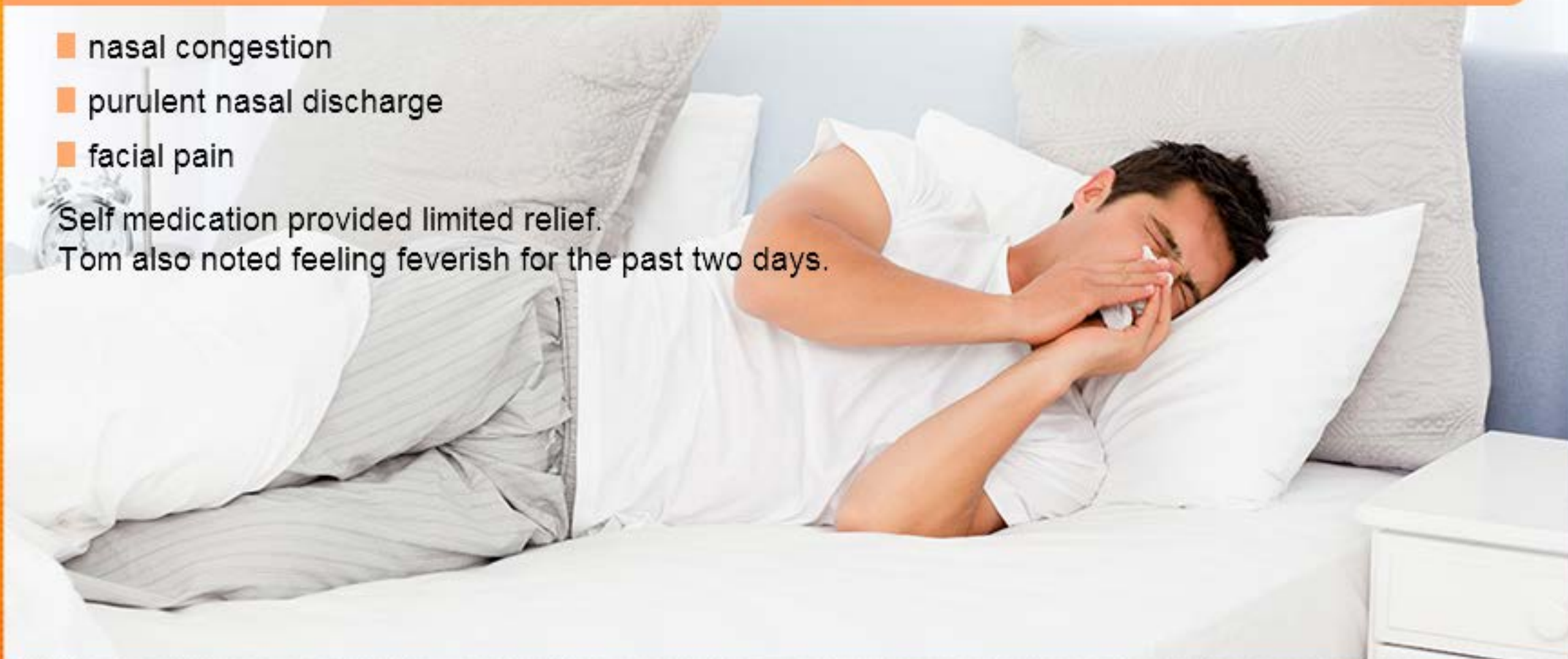
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Since the past 10 days, Tom had the following symptoms that affected his routine activities:

- nasal congestion
- purulent nasal discharge
- facial pain

Self medication provided limited relief.  
Tom also noted feeling feverish for the past two days.



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Tom finally consulted his family physician.



Physical examination revealed:

- Fever (temperature 38.5°C)
- Facial tenderness on frontal area
- Nasal congestion

ENT examination revealed:

- Purulence in the nasal cavity
- Erythema of the nasal mucosa



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## Diagnosis:

Acute Bacterial RhinoSinusitis (ABRS)

## Additional investigations

Imaging studies?



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Radiographic confirmation of sinus disease for patients with uncomplicated ABRS is not necessary and is not advised.<sup>1</sup>

Imaging studies such as plain radiographs or CT are nonspecific and do not distinguish bacterial from viral rhinosinusitis.<sup>1</sup>

1. Chow A, Benninger M, Brook I, *et al*. IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112



**Conventional criteria for  
diagnosis of sinusitis**

**Clinical criteria for  
diagnosis of ABRS**



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# Conventional criteria for diagnosis of sinusitis



**Of the physical findings the only finding shown to have diagnostic value is that of purulence in the nasal cavity or posterior pharynx.<sup>1</sup>**

Conventional Criteria for the Diagnosis of Sinusitis Based on the Presence of at Least 2 Major or 1 Major and > 2 Minor Symptoms<sup>2</sup>

| Major Symptoms                                     | Minor Symptoms                              |
|--|---|
| • Purulent anterior nasal discharge                | • Headache                                  |
| • Purulent or discolored posterior nasal discharge | • Ear pain, pressure, or fullness           |
| • Nasal congestion or obstruction                  | • Halitosis                                 |
| • Facial congestion or fullness                    | • Dental pain                               |
| • Facial pain or pressure                          | • Cough                                     |
| • Hyposmia or anosmia                              | • Fever (for subacute or chronic sinusitis) |
| • Fever (for acute sinusitis only)                 | • Fatigue                                   |

1. Rosenfeld R, Andes D, Bhattacharyya N, *et al*. Clinical practice guideline: Adult sinusitis Otolaryngology–Head and Neck Surgery (2007) 137, S1-S31.
2. Chow A, Benninger M, Brook I, *et al*. IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112



## Three typical clinical presentations were emphasized to differentiate bacterial from viral rhinosinusitis<sup>1</sup>

- Onset with persistent symptoms that last  $\geq 10$  days and were not improving (This case )
- Onset with severe symptoms, characterized by high fever of at least 39°C (102°F) and purulent nasal discharge for at least 3–4 consecutive days at the beginning of illness; and
- Onset with worsening symptoms, characterized by typical viral URI symptoms that appear to improve followed by the sudden onset of worsening symptoms after 5–6 days (“double-sickening”)

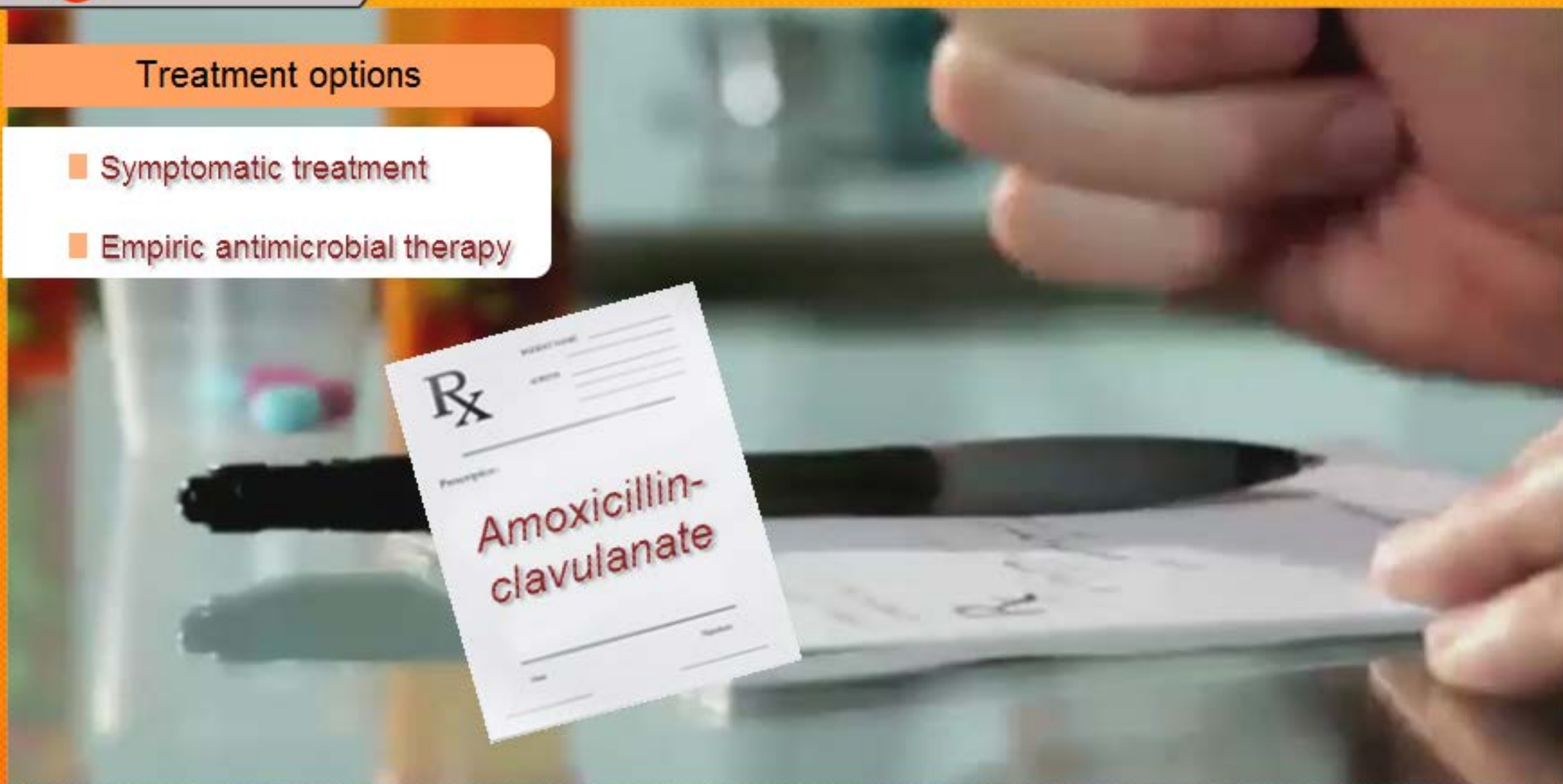
1. Chow A, Benninger M, Brook I, *et al* . IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112





## Treatment options

- Symptomatic treatment
- Empiric antimicrobial therapy



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## Treatment for symptomatic relief



Clinicians may prescribe symptomatic relief in managing ABRS.<sup>1</sup>

Pain relief is a major goal in managing ABRS.<sup>1</sup>

Neither topical nor oral decongestants and/or antihistamines are recommended as adjunctive treatment in patients with ABRS.<sup>2</sup>

1. Rosenfeld RM, Andes D, Bhattacharyya N, *et al* . Clinical practice guideline: adult sinusitis. Otolaryngol Head Neck Surg.2007 Sep; 137(3 Suppl):S1-31.
2. Chow A, Benninger M, Brook I, *et al* . IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112

## Empiric antimicrobial therapy



**A.** A watchful waiting strategy is only reasonable if one is uncertain about the diagnosis of ABRS owing to mild symptoms but cannot be recommended when more stringent clinical criteria for the diagnosis of ABRS are applied.<sup>1</sup>

**B.** Prompt initiation of antimicrobial therapy should shorten the duration of illness, provide earlier symptomatic relief, restore quality of life, and prevent recurrence or suppurative complications.<sup>1</sup>

1. Chow A, Benninger M, Brook I, *et al* . IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112



# Infectious Diseases Society of America

## Guideline recommendation<sup>1</sup>



Amoxicillin-clavulanate recommended as:

**First-line initial empirical antimicrobial therapy** for acute bacterial rhinosinusitis in both adults and children

**Also recommended as second line antimicrobial therapy** for acute bacterial rhinosinusitis in both adults and children who experience treatment failure to other first-line agents

First-line dose: Amoxicillin-clavulanate (45 mg/kg/day PO bid) for children, amoxicillin-clavulanate (500 mg/125 mg PO tid, or 875 mg/ 125 mg PO bid) for adults

Second line dose: Amoxicillin-clavulanate (90 mg/kg/day PO bid) for children, amoxicillin-clavulanate (2000 mg/125 mg PO) for adults

1. Chow A, Benninger M, Brook I, *et al* . IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112

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Soon he was fit and spending quality time with his family.



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**Clavulanic Acid as potassium salt 125 mg**

Achieves adequate concentration in sinus tissue<sup>1,2</sup>

Established clinical and bacteriological efficacy<sup>3,4,5,6</sup>Guideline recommendation<sup>8</sup>

## Clarithromycin

### Dosage

Moxifloxacin

1. Dagan R, Klugman KP, Craig WA *et al.* Evidence to support the rationale that bacterial eradication in respiratory tract infection is an important aim of antimicrobial therapy. *J Antimicrob Chemother.* 2001 Feb; 47(2):129-40.
2. Dinis PB, Monteiro MC, Martins ML *et al.* Sinus tissue pharmacokinetics after oral administration of amoxicillin/clavulanic acid. *Laryngoscope.* 2000 Jun; 110(6):1050-5.
3. Riffer E, Spiller J, Palmer R, *et al.* Once daily clarithromycin extended-release vs twice-daily amoxicillin/clavulanate in patients with acute bacterial sinusitis: a randomized, investigator-blinded study. *Curr Med Res Opin.* 2005 Jan; 21(1):61-70.
4. Arrieta JR, Galgano AS, Sakano E, *et al.* Moxifloxacin vs amoxicillin/clavulanate in the treatment of acute sinusitis. *Am J Otolaryngol* 2007 Mar-Apr; 28(2) :78-82.
5. Dagan R, Klugman KP, Craig WA *et al.* Evidence to support the rationale that bacterial eradication in respiratory tract infection is an important aim of antimicrobial therapy. *J Antimicrob Chemother.* 2001 Feb; 47(2):129-40.
6. Gwaltney JM Jr, Savolainen S, Rivas P, *et al.* Comparative effectiveness and safety of cefdinir and amoxicillin-clavulanate in treatment of acute community-acquired bacterial sinusitis. Cefdinir Sinusitis Study Group. *Antimicrob Agents Chemother.* 1997 Jul; 41(7):1517-20.
7. Augmentin 875 PI MOH approved.
8. Chow A, Benninger M, Brook I, *et al.* IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults. *Clin Infect Dis.* 2012 Apr; 54(8):e72-e112

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\*CARTI: community acquired respiratory tract infection

#: Susceptibility patterns may vary with time and geography; refer to local susceptibility data before prescribing



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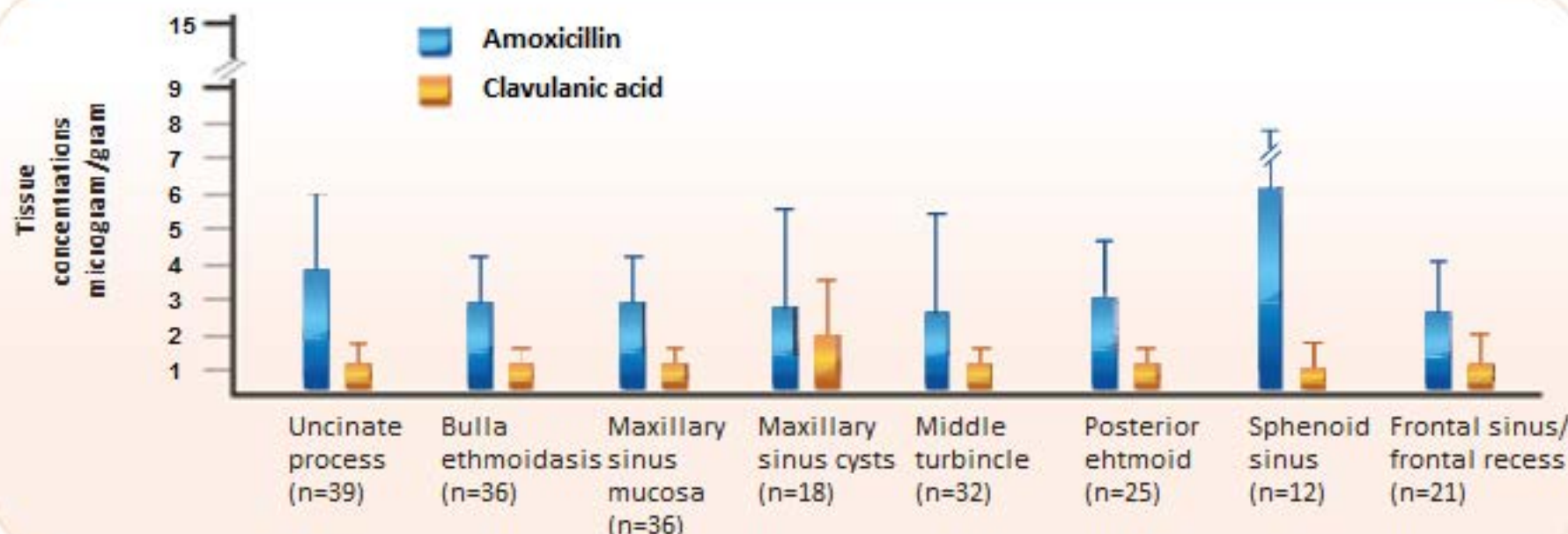
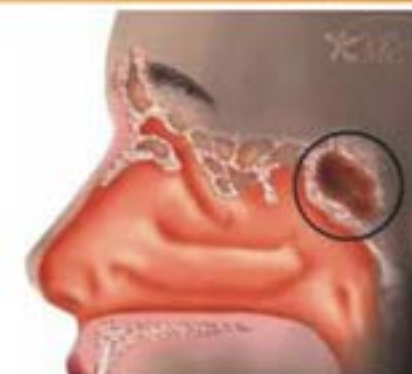
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# Augmentin in Sinusitis: adequate tissue concentration

- Antimicrobial therapy should eradicate bacteria from site of infection and minimize carriage<sup>1</sup>
- Amoxicillin displayed adequate tissue levels throughout the sinuses, high enough to cover common susceptible pathogens<sup>2</sup>



Adapted from reference 2

**Fig:** Overall mean concentrations and standard deviations of both amoxicillin & clavulanate at different sinonasal sites<sup>2</sup>

- Dagan R, Klugman KP, Craig WA *et al*. Evidence to support the rationale that bacterial eradication in respiratory tract infection is an important aim of antimicrobial therapy. *J Antimicrob Chemother*.2001 Feb; 47(2):129-40.
- Dinis PB, Monteiro MC, Martins ML *et al*. Sinus tissue pharmacokinetics after oral administration of amoxicillin/clavulanic acid. *Laryngoscope*.2000 Jun; 110(6):1050-5.



## Established clinical and bacteriological efficacy<sup>1,2,3</sup>



| Year/Author                    | Augmentin dose  | Comparator dose                             | Clinical efficacy  | Bacteriological efficacy   |
|--------------------------------|---|---|--|--|
| Riffer E, <i>et al.</i> 2005   | Amoxicillin/clavulanate<br>875mg/125mg twice daily for<br>14 days | Clarithromycin ER<br>1000mg once daily      | 98% clinical cure rate in clinically<br>evaluable patients in the<br>clarithromycin ER group and 97% in<br>the amoxicillin/clavulanate group | 94% pathogen eradication rates in<br>the clarithromycin ER group and 98%<br>in the amoxicillin/clavulanate<br>group  |
| Arrieta JR, <i>et al.</i> 2007 | 500/125mg 3 times daily for<br>10 days                            | Moxifloxacin 400mg<br>once daily for 7 days | Clinical success rate <ul style="list-style-type: none"> <li>• Moxifloxacin: 93.4%</li> <li>• Amoxicillin/clavulanate: 92.7%</li> </ul>      | Documented bacteriological<br>eradication plus presumed<br>eradication rates <ul style="list-style-type: none"> <li>• Moxifloxacin: 96.5%</li> <li>• Amoxicillin/clavulanate: 96.7%</li> </ul> |
| Dagan R, <i>et al.</i> 2001    | -   | -   | -  | Documented efficacious reduction<br>in nasopharyngeal carriage of<br>penicillin-susceptible & resistant <i>S.<br/>pneumoniae</i> as compared to cefixime                                       |

1. Riffer E, Spiller J, Palmer R, *et al.* Once daily clarithromycin extended-release vs twice-daily amoxicillin/clavulanate in patients with acute bacterial sinusitis: a randomized, investigator-blinded study. *Curr Med Res Opin.* 2005 Jan;21(1):61-70.
2. Arrieta JR, Galgano AS, Sakano E, *et al.* Moxifloxacin vs amoxicillin/clavulanate in the treatment of acute sinusitis. *Am J Otolaryngol* 2007 Mar-Apr; 28(2):78-82.
3. Dagan R, Klugman KP, Craig WA *et al.* Evidence to support the rationale that bacterial eradication in respiratory tract infection is an important aim of antimicrobial therapy. *J Antimicrob Chemother.* 2001 Feb; 47(2):129-40.



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# Infectious Diseases Society of America

## Guideline recommendation<sup>1</sup>



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**IDSA 2012**

1. Chow A, Benninger M, Brook I, *et al* . IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults, Clin Infect Dis. 2012 Apr;54(8):e72-e112

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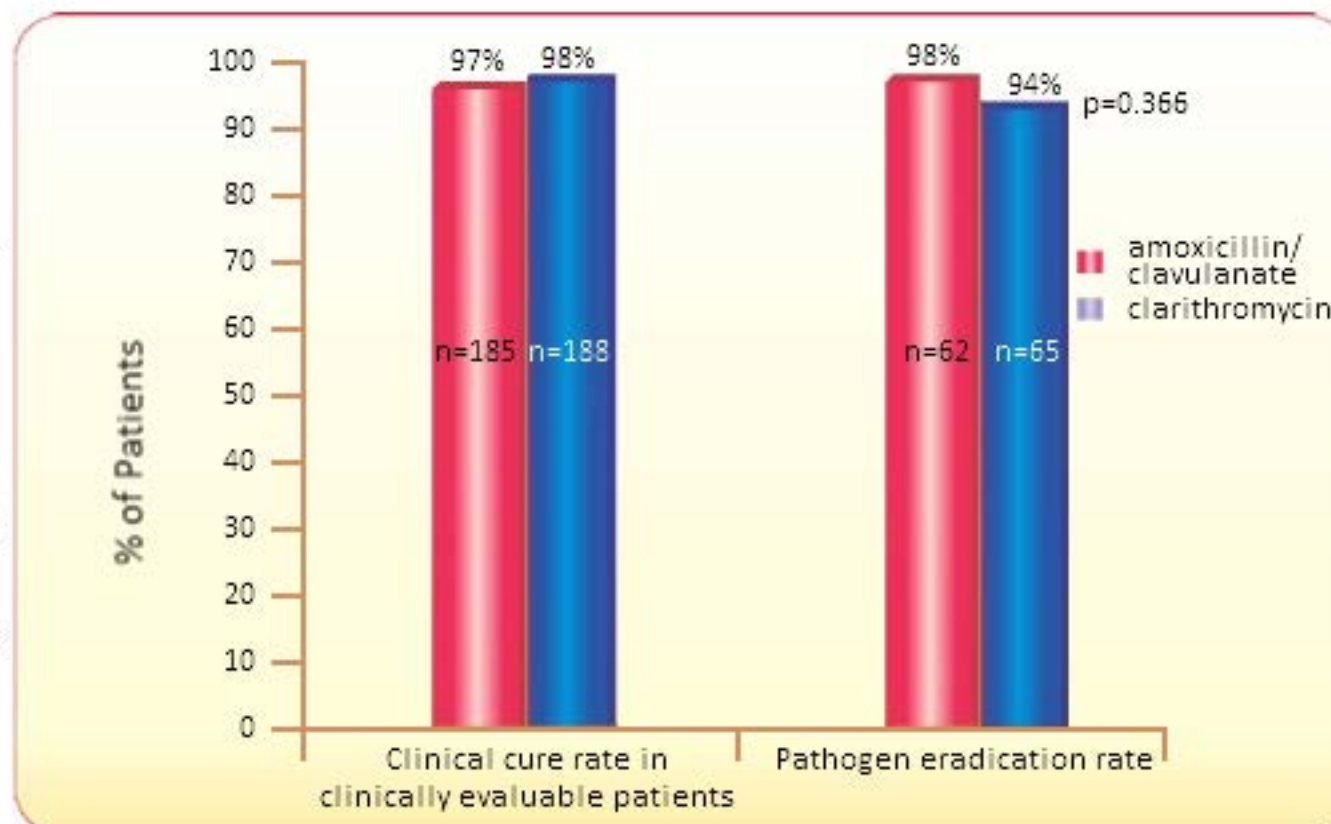
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# Amoxicillin-clavulanate vs. Clarithromycin<sup>1</sup>



- ▶ 98% clinical cure rate in clinically evaluable patients in the clarithromycin ER group and 97% in the amoxicillin/clavulanate group  
95% CI for the difference in cure rates [-2.4%, 4.7%]
- ▶ 94% pathogen eradication rates in the clarithromycin ER group and 98% in the amoxicillin/clavulanate group  
95% CI for the difference in eradication rates [-12.0%, 2.9%]



In a controlled, multicenter, investigator-blinded study, 437 ambulatory patients at least 12 years old with signs/symptoms and radiographic findings of acute sinusitis were randomized to receive clarithromycin extended release (ER) 1000 mg once daily or amoxicillin/ clavulanate 875 mg/125 mg twice daily for 14 days.

## Clinical and bacteriological response comparable to clarithromycin ER in acute bacterial sinusitis patients

1. Riffer E, Spiller J, Palmer R *et al* . Once daily clarithromycin extended-release vs twice-daily amoxicillin/clavulanate in patients with acute bacterial sinusitis: a randomized, investigator-blinded study. *Curr Med Res Opin.* 2005 Jan;21(1):61-70.

# Augmentin 875 Indication<sup>1</sup>

**Augmentin 875 mg Tablets Indication:**

Augmentin is indicated for the treatment of the following infections in adults and children:

- Acute bacterial sinusitis (adequately diagnosed)
- Acute otitis media
- Acute exacerbations of chronic bronchitis (adequately diagnosed)
- Community acquired pneumonia
- Cystitis
- Pyelonephritis
- Skin and soft tissue infections in particular cellulitis, animal bites, severe dental abscess with spreading cellulitis.
- Bone and joint infections, in particular osteomyelitis.

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

1. Augmentin PI MOH approved



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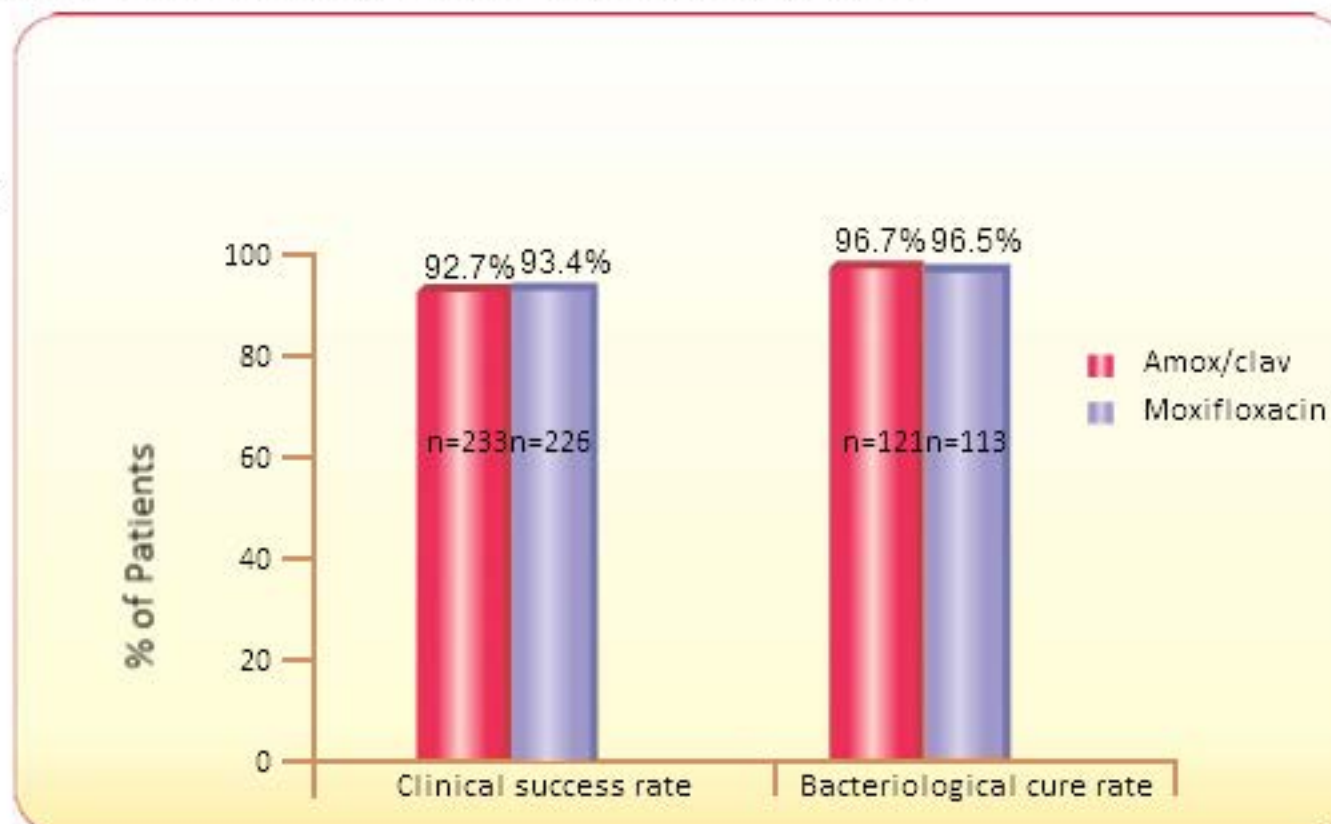
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## Amoxicillin-clavulanate vs. Moxifloxacin<sup>1</sup>

- ▶ Similar clinical success rate (93.4%) in the moxifloxacin group to that in the amoxicillin/clavulanate group (92.7%) at test-of-cure visit (95% CI, -3.93% to 5.36%)
- ▶ Similar documented bacteriological eradication plus presumed eradication rates in the moxifloxacin (96.5%) and the amoxicillin/clavulanate (96.7%) (95% CI, -3.30% to 7.49%).



Five hundred seventy-five patients from Latin American countries were randomized to receive oral moxifloxacin 400 mg once daily for 7 days, or oral amoxicillin/clavulanate 500/125 mg 3 times daily for 10 days, in a prospective, open study

### Clinical and bacteriological response equivalent to moxifloxacin in acute bacterial sinusitis patients

1. Arrieta JR, Galgano AS, Sakano E, *et al*. Moxifloxacin vs amoxicillin/clavulanate in the treatment of acute sinusitis. *Am J Otolaryngol*. 2007 Mar-Apr;28(2):78-82.



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Amoxicillin as trihydrate 875 mg

Clavulanic Acid as potassium salt 125 mg

### MAIN SAFETY DATA

- ▶ Well established safety profile following many years of clinical usage in the treatment of bacterial infections
- ▶ Contraindicated in patients with known hypersensitivity to beta-lactam antibiotics (penicillins and cephalosporins). Before initiating therapy with amoxicillin-clavulanate, careful enquiry should be made concerning previous hypersensitivity reactions to antibiotics.
- ▶ The most commonly reported adverse drug reactions are diarrhoea, nausea and vomiting. Nausea is more often associated with higher oral doses. If gastrointestinal reactions are evident, they may be reduced by taking Augmentin at the start of a meal.

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### MAIN SAFETY DATA

- ▶ Antibiotic-associated colitis has been reported with nearly all antibacterial agents including amoxicillin and may range in severity from mild to life threatening. Therefore, it is important to consider this diagnosis in patients with diarrhoea during or after any antibiotic. Should antibiotic-associated colitis occur, Augmentin should immediately be discontinued, a physician be consulted and an appropriate therapy initiated.
- ▶ Prolonged use may result in overgrowth of Candida and other non-susceptible organisms
- ▶ Should be used with caution in patients with evidence of hepatic impairment. Hepatic events have been reported predominantly in males and elderly patients and may be associated with prolonged treatment. These events have been very rarely reported in children. Signs and

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### MAIN SAFETY DATA

- ▶ Should be used with caution in patients with evidence of hepatic impairment. Hepatic events have been reported predominantly in males and elderly patients and may be associated with prolonged treatment. These events have been very rarely reported in children. Signs and symptoms usually occur during or shortly after treatment but in some cases may not become apparent until several weeks after treatment has ceased. These are usually reversible. Hepatic events may be severe and have almost always occurred in patients with serious underlying disease or taking concomitant medications known to have the potential for hepatic effects
- ▶ Should be avoided in patients known or suspected to be suffering from infectious mononucleosis as use of the amoxicillin component has been associated with the occurrence of a morbilliform rash

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### MAIN SAFETY DATA

events may be severe and have almost always occurred in patients with serious underlying disease or taking concomitant medications known to have the potential for hepatic effects

- ▶ Should be avoided in patients known or suspected to be suffering from infectious mononucleosis as use of the amoxicillin component has been associated with the occurrence of a morbilliform rash
- ▶ In patients with renal impairment the dosage may need to be adjusted
- ▶ Consideration should be given to local susceptibility data (where available) and official guidance on the appropriate use of antibacterial agents

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**Adverse events reporting service:** [il.safety@gsk.com](mailto:il.safety@gsk.com) , Tel: 03-9297100

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*Date of preparation: August 2016*

ל-PI המלא נא ללחוץ כאן



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