

# Pneumonie communautaire

## RÉFÉRENTIEL MÉDICAL

Le référentiel médical TREKK est une collection des meilleures ressources et évidences sur divers sujets. La collection est constituée par une équipe de synthèse des connaissances à l'*Alberta Research Centre for Health Evidence* ([ARCHE](#)) et par une équipe de spécialistes qui contribuent au contenu médical TREKK.

L'équipe de synthèse utilise un cadre hiérarchique des données probantes en forme de pyramide « 4S » (voir le modèle "[4S](#)" *Hierarchy of evidence*), pour répondre aux besoins des parties prenantes. Pour ce faire, l'équipe effectue à priori une recherche de la littérature à partir des bases de données scientifiques (Cochrane Library, PubMed, TRIP Database) et des moteurs de recherche internet (Google, Google Scholar). Les résultats sont organisés en 5 volets de présentation :

- (1) Recommandations de base
- (2) Lignes directrices sur la pratique clinique et algorithmes
- (3) Survols et résumés des revues systématiques
- (4) Revues systématiques
- (5) Études clés
- (6) Ressources pour parents et familles, si applicable

En collaboration avec l'équipe de synthèse des connaissances, les spécialistes qui contribuent au contenu TREKK sélectionnent les items pertinents, présentés ci-dessous. Le référentiel médical TREKK n'est pas conçu comme liste exhaustive du sujet, mais plutôt comme liste sélectionnée par un consensus d'experts : c'est une liste de ressources fondées sur des données probantes à date, pertinentes, et utilisables au Service général des urgences médicales. Les ressources à libre accès sont privilégiées (c'est-à-dire, disponibles à tous, gratuites, et sans abonnement nécessaire).

Pour en savoir plus sur l'élaboration de nos référentiels, cliquez [ici](#).

## ÉQUIPE DE DÉVELOPPEMENT (ÉLABORATION DU CONTENU)

Un grand merci aux spécialistes cliniques et à l'Équipe de synthèse des connaissances qui ont dirigé le développement de ce référentiel médical.

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Voir [TREKK.ca](#) pour plus de ressources sur les soins d'urgence pédiatrique

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[Cliquez ici](#) pour voir les ressources TREKK élaborées pour professionnels de la santé, parents, et familles.

## Lignes directrices sur la pratique clinique et algorithmes

1. National Institute for Health and Care Excellence (NICE). [Pneumonia \(community-acquired\): antimicrobial prescribing](#). 2019.
2. New South Wales Government. [Infants and children: Acute management of community acquired pneumonia](#). 2018.
3. Le Saux N, Robinson JL. [Uncomplicated pneumonia in healthy Canadian children and youth: Practice points for management](#). *Paediatr Child Health*. 2015;20(8):441-50.
4. World Health Organization (WHO). [Revised WHO classification and treatment of childhood pneumonia at health facilities: evidence summaries](#). 2014.
5. Harris M, Clark J, Coote N, et al. [British Thoracic Society guidelines for the management of community acquired pneumonia in children: update 2011](#). *Thorax*. 2011;66 Suppl 2:ii1-23.
6. Bradley JS, Byington CL, Shah SS, et al. [The management of community-acquired pneumonia in infants and children older than 3 months of age: clinical practice guidelines by the Pediatric Infectious Diseases Society and the Infectious Diseases Society of America](#). *Clin Infect Dis*. 2011;53(7):e25-76.

## Survols et résumés des revues systématiques

1. Ojuawo O, Ojuawo A, Aladesanmi A, et al. [Childhood pneumonia diagnostics: a narrative review](#). *Expert Rev Respir Med*. 2022;16(7):775-85.
2. Cooper-Sood J, Wallihan R, Naprawa J, et al. [Points & Pearls: Pediatric community-acquired pneumonia: diagnosis and management in the emergency department](#). *Pediatr Emerg Med Pract*. 2019;16(4):e1-e2.
3. Mathur S, Fuchs A, Bielicki J, et al. [Antibiotic use for community-acquired pneumonia in neonates and children: WHO evidence review](#). *Paediatr Int Child Health*. 2018;38(sup1):S66-s75.
4. Kredo T, Bernhardsson S, Machingaidze S, et al. [Guide to clinical practice guidelines: the current state of play](#). *Int J Qual Health Care*. 2016;28(1):122-8.

## Revue systématique

1. Gao Y, Liu M, Yang K, et al. Shorter Versus Longer-term Antibiotic Treatments for Community-Acquired Pneumonia in Children: A Meta-analysis. *Pediatrics*. 2023;151(6):e2022060097
2. Pratt MTG, Tasnim PC, Richmond HC, et al. [Prevalence of respiratory viruses in community-acquired pneumonia in children: a systematic review and meta-analysis](#). *Lancet Child Adolesc Health*. 2022;6:555-70.
3. Kuitunen JJ, Korppi M, Renko M. [Antibiotic treatment duration for community acquired pneumonia in outpatient children in high-income countries - a systematic review and meta-analysis](#). *Clin Infect Dis*. 2022 May 17:ciac374.
4. Chee E, Huang K, Haggie S, et al. [Systematic review of clinical practice guidelines on the management of community acquired pneumonia in children](#). *Paediatr Respir Rev*. 2022;42:59-68.

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5. Weragama K, Mudgil P, Whitehall J. [Paediatric antimicrobial stewardship for respiratory infections in the emergency setting: A systematic review](#). *Antibiotics (Basel)*. 2021;10(11).
6. Lassi ZS, Padhani ZA, Das JK, et al. [Antibiotic therapy versus no antibiotic therapy for children aged 2 to 59 months with WHO-defined non-severe pneumonia and wheeze](#). *Cochrane Database Syst Rev*. 2021;1(1):Cd009576.
7. Wang L, Song W, Wang Y, et al. [Lung ultrasonography versus chest radiography for the diagnosis of pediatric community acquired pneumonia in emergency department: a meta-analysis](#). *J Thorac Dis*. 2019;11(12):5107-14.
8. Shah SN, Bachur RG, Simel DL, et al. [Does this child have pneumonia? The rational clinical examination systematic review](#). *JAMA*. 2017;318(5):462-71.
9. Wang K, Gill P, Perera R, Thomson A, Mant D, Harnden A. [Clinical symptoms and signs for the diagnosis of Mycoplasma pneumoniae in children and adolescents with community-acquired pneumonia](#). *Cochrane Database Syst Rev*. 2012(10).

### Études clés - Diagnostic

1. Kessler D, Dessie A, Kanjanapattom P, et al. [Lack of association between a quantified lung ultrasound score and illness severity in pediatric emergency department patients with acute lower respiratory infections](#). *J Ultrasound Med*. 2022;41(12):3013-22.
2. Kaiser SV, Rodean J, Coon ER, et al. [Common diagnoses and costs in pediatric hospitalization in the US](#). *JAMA Pediatr*. 2022;176(3):316-8.
3. Sartori LF, Zhu Y, Grijalva CG, et al. [Pneumonia severity in children: Utility of procalcitonin in risk stratification](#). *Hosp Pediatr*. 2021;11(3):215-22.
4. Lipsett SC, Monuteaux MC, Bachur RG, et al. [Negative Chest Radiography and Risk of Pneumonia](#). *Pediatrics*. 2018 Sep;142(3):e20180236.
5. Shah VP, Tunik MG, Tsung JW. [Prospective evaluation of point-of-care ultrasonography for the diagnosis of pneumonia in children and young adults](#). *JAMA Pediatr*. 2013;167(2):119-25.
6. Schuh S, Lalani A, Allen U. [Evaluation of the utility of radiography in acute bronchiolitis](#). *J Pediatr*. 2007 Apr;150(4):429-33.
7. Swingle GH, Hussey GD, Zwarenstein M. [Randomised controlled trial of clinical outcome after chest radiograph in ambulatory acute lower-respiratory infection in children](#). *Lancet*. 1998;351(9100):404-408.

### Études clés - Prognostic

1. Ramgopal S, Lorenz D, Navanandan N, et al. [Validation of prediction models for pneumonia among children in the emergency department](#). *Pediatrics*. 2022;150(1).
2. Ramgopal S, Cotter JM, Navanandan N, et al. [Disease severity of community-acquired pneumonia among children with medical complexity](#). *Pediatr Pulmonol*. 2022.
3. Ramgopal S, Ambroggio L, Lorenz D, et al. [A prediction model for pediatric radiographic pneumonia](#). *Pediatrics*. 2022;149(1).
4. Lipsett SC, Hirsch AW, Monuteaux MC, Bachur RG, Neuman MI. [Development of the novel pneumonia risk score to predict radiographic pneumonia in children](#). *Pediatr Infect Dis J*. 2022;41(1):24-30.

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5. Gao HM, Ambroggio L, Shah SS, et al. [Predictive value of clinician "gestalt" in pediatric community-acquired pneumonia](#). *Pediatrics*. 2021;147(5): e2020041582.
6. Florin TA, Ambroggio L, Lorenz D, et al. [Development and internal validation of a prediction model to risk stratify children with suspected community-acquired pneumonia](#). *Clin Infect Dis*. 2021;73(9):e2713-e21.
7. Florin TA, Ambroggio L, Brokamp C, et al. [Biomarkers and disease severity in children with community-acquired pneumonia](#). *Pediatrics*. 2020;145(6).
8. Florin TA, Brokamp C, Mantyla R, et al. [Validation of the Pediatric Infectious Diseases Society of America severity criteria in children with community-acquired pneumonia](#). *Clin Infect Dis*. 2018;67(1):112-9.
9. Williams DJ, Zhu Y, Grijalva CG, et al. [Predicting severe pneumonia outcomes in children](#). *Pediatrics*. 2016;138(4).
10. Jain S, Williams DJ, Arnold SR, et al. [Community-acquired pneumonia requiring hospitalization among U.S. children](#). *N Engl J Med*. 2015;372(9):835-45.
11. Neuman MI, Monuteaux MC, Scully KJ, et al. [Prediction of pneumonia in a pediatric emergency department](#). *Pediatrics*. 2011;128(2):246-53.

### Key Studies - Traitement

1. Williams DJ, Creech CB, Walter EB, et al. [Short- vs standard-course outpatient antibiotic therapy for community-acquired pneumonia in children: The scout-cap randomized clinical trial](#). *JAMA Pediatr*. 2022;176(3):253-61.
2. Same RG, Amoah J, Hsu AJ, et al. [The association of antibiotic duration with successful treatment of community-acquired pneumonia in children](#). *J Pediatric Infect Dis Soc*. 2021;10(3):267-73.
3. Pernica JM, Harman S, Kam AJ, et al. [Short-course antimicrobial therapy for pediatric community-acquired pneumonia: The SAFER randomized clinical trial](#). *JAMA Pediatr*. 2021;175(5):475-82.
4. Bielicki JA, Stöhr W, Barratt S, et al. [Effect of amoxicillin dose and treatment duration on the need for antibiotic re-treatment in children with community-acquired pneumonia: The cap-it randomized clinical trial](#). *JAMA*. 2021;326(17):1713-24.
5. Barratt S, Bielicki JA, Dunn D, et al. [Amoxicillin duration and dose for community-acquired pneumonia in children: the CAP-IT factorial non-inferiority RCT](#). *Health Technol Assess*. 2021;25(60):1-72.
6. Lipshaw MJ, Eckerle M, Florin TA, et al. [Antibiotic use and outcomes in children in the emergency department with suspected pneumonia](#). *Pediatrics*. 2020;145(4).
7. Nascimento-Carvalho CM, Xavier-Souza G, Vilas-Boas AL, et al. [Evolution of acute infection with atypical bacteria in a prospective cohort of children with community-acquired pneumonia receiving amoxicillin](#). *J Antimicrob Chemother*. 2017;72(8):2378-84.
8. Greenberg D, Givon-Lavi N, Sadaka Y, et al. [Short-course antibiotic treatment for community-acquired alveolar pneumonia in ambulatory children: a double-blind, randomized, placebo-controlled trial](#). *Pediatr Infect Dis J*. 2014;33(2):136-42.

### Key Studies - Admission

1. Gill PJ, Thavam T, Anwar MR, et al. [Prevalence, cost, and variation in cost of pediatric hospitalizations in Ontario, Canada](#). *JAMA Netw Open*. 2022;5(2):e2147447.

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2. Gill PJ, Anwar MR, Thavam T, et al. [Identifying Conditions with High Prevalence, Cost, and Variation in Cost in US Children's Hospitals](#). JAMA Netw Open. 2021;4(7):e2117816. Published 2021 Jul 1.

## Autre

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