

Best of allergologie

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Nemolizumab : efficace dans la dermatite atopique

- Anti-récepteur A de l'IL 31
 - rôle dans prurit et inflammation
 - régulation de la barrière cutanée
- Essai de phase 3 en double aveugle sur 16 semaines
- DA et prurit modéré à sévère avec réponse insuffisante aux topiques
- Nemolizumab (60mg) vs placebo /4 semaines
- Critère laire : % moyen de changement de l'échelle de prurit (VAS score) entre S0 et S16
- Critères Ilaires : diminution du VAS entre S0-S4, diminution de l'EASI, du DLQI, score ISI<7, sécurité

Table 2. Primary and Secondary Efficacy End Points (Modified Intention-to-Treat Population).*

End Point	Nemolizumab (N = 143)	Placebo (N = 72)	Difference (95% CI) <i>percentage points</i>
Primary end point: percent change in pruritus VAS score from baseline to wk 16	-42.8±2.6	-21.4±3.6	-21.5 (-30.2 to -12.7) [†]
Secondary end points [‡] :			
Percent change in pruritus VAS score from baseline to day 29	-34.4±2.2	-15.3±3.0	-19.3 (-26.6 to -11.9)
Percent change in EASI score from baseline to wk 16	-45.9±3.3	-33.2±4.7	-12.6 (-24.0 to -1.3)
Percentage of patients with a DLQI score of ≤4 at wk 16 (no./total no.) [§]	40 (51/129)	22 (15/67)	17 (2 to 31)
Percentage of patients with a decrease of ≥4 points in the DLQI score from baseline to wk 16 (no./total no.) [¶]	67 (89/133)	50 (34/68)	17 (3 to 31)
Percentage of patients with an ISI score of ≤7 at wk 16 (no./total no.)	55 (59/108)	21 (12/56)	33 (17 to 48)

Conclusion

Nemolizumab efficace dans le prurit chez les patients atteints de dermatite atopique

Omalizumab et grossesse

- Etude EXPECT : observationnelle, prospective, évaluant critères périnataux chez femmes avec asthme modéré-sévère exposées au XOLAIR (max 375mg/2 semaines) pendant leur grossesse (2006)
- Obj : comparer résultats de l'étude EXPECT (n=250) à ceux d'un groupe contrôle (QECC : base de données québécoise, n=1153)

Conclusion :

Pas de preuve d'un risque augmenté de complication péri-natale chez les enfants de mères traitées par omalizumab pendant leur grossesse

TABLE IV. Pregnancy and infant outcomes (excluding congenital anomalies) in the EXPECT subcohort and the QECC

	EXPECT subcohort*	QECC†
Pregnancy outcomes	n = 230	n = 1153
Live births (% of pregnancies [95% CI])	99.1% (96.9% to 99.9%)	99.3% (92.9% to 100.0%)
Fetal death/stillbirths‡ (% of pregnancies [95% CI])	0.9% (0.1% to 3.1%)	0.9% (0.3% to 1.5%)†
Live-born infant outcomes§	n = 233	n = 1162
Birth weight (kg), mean ± SD		
All infants	3.2 ± 0.6	3.2 ± 0.6
Singletons	3.2 ± 0.6	3.2 ± 0.3
Twins	2.4 ± 0.4	2.0 ± 0.3
Low birth weight (% of infants [95% CI]) ¶		
All infants	13.7% (9.5% to 18.9%)	9.8% (7.9% to 11.8%)
All singletons, including premature births	11.6% (7.6% to 16.6%)	8.3% (6.5% to 10.2%)
All full-term infants	4.7% (2.2% to 8.8%)	2.9% (1.8% to 4.0%)
Full-term singletons	2.7% (0.9% to 6.1%)	2.9% (1.8% to 4.0%)
Oral corticosteroid use#		
Yes	18.2% (9.1% to 30.9%)	13.7% (8.8% to 18.6%)
No	12.3% (7.8% to 18.2%)	8.7% (6.6% to 10.8%)
SGA (% of infants [95% CI])**	9.7% (6.2% to 14.4%)	15.8% (13.3% to 18.4%)
Gestational age (wk), median (range)	39.0 (28.3 to 43.0)	39.0 (20.0 to 42.0)
Premature birth (% of infants [95% CI])††	15.0% (10.7% to 20.3%)	11.3% (9.2% to 13.5%)
Oral corticosteroid use		
Yes	32.7% (20.7% to 46.7%)	16.2% (10.9% to 21.4%)
No	9.6% (5.7% to 14.9%)	9.8% (7.5% to 12.1%)

% d'enfants avec anomalie congénitale majeure : 8.1% (EXPECT) vs 8.9% (QECC)

Topique au ruxolitinib dans la dermatite atopique

- Ruxolitinib : inhibiteur de JAK 1 et 2
- Essai de phase 2, randomisé, en double aveugle, sur 8 semaines
- 307 patients atteints de DA avec IGA 2-3 (léger à modéré) et surface atteinte 3-20%
- Ruxolitinib topique vs placebo
- Critère laire : amélioration du score EASI à S4

Résultats :

Ruxolitinib 1.5% 2 applications/J : effet bénéfique à S4

- Amélioration du score EASI à S4 (71.6% vs 15.5%; $P < .0001$)
- Amélioration de l'IGA à S4 (38.0% vs 7.7%; $P < .001$)
- vs triamcinolone acetonide à S4 : EASI score 71.6% vs 59.8%; IGA response 38.0% vs 25.5%
- Amélioration du prurit (EN) après 36h et jusqu'à 12 semaines (-1.8 vs -0.2 ; $P < .0001$)
- Bonne tolérance

Head/neck

Patient 1: Baseline



Patient 1: Week 4



Conclusion

Topique au ruxolitinib permet une réduction rapide et durable des symptômes de dermatite atopique

Anti IL 13 et œsophagite à éosinophile

- Oesophagite à éosinophile : Peu de traitement, aucun traitement ciblé
- IL13 (TH2) : rôle dans activation fibroblastes et PNE
- Fibrosténose : 1^{ère} complication, médiée par la transition épithélio-mésenchymateuse (EMT)
- Sous-étude d'un essai de phase 2, randomisé, en double aveugle, contre placebo
- N=69
- Ttt hebdomadaire par anti IL13 à 180mg (n=19) ou 360mg (n=26) vs placebo (n=24)
- Critère laire : % de modification de l'expression en IF de vimentine sur les cell épithéliales entre S0 et S16

Conclusion :

Les Ac anti IL13 diminuent les marqueurs de l'EMT et peuvent ainsi améliorer la fibrose chez les patients atteints d'oesophagite à éosinophiles

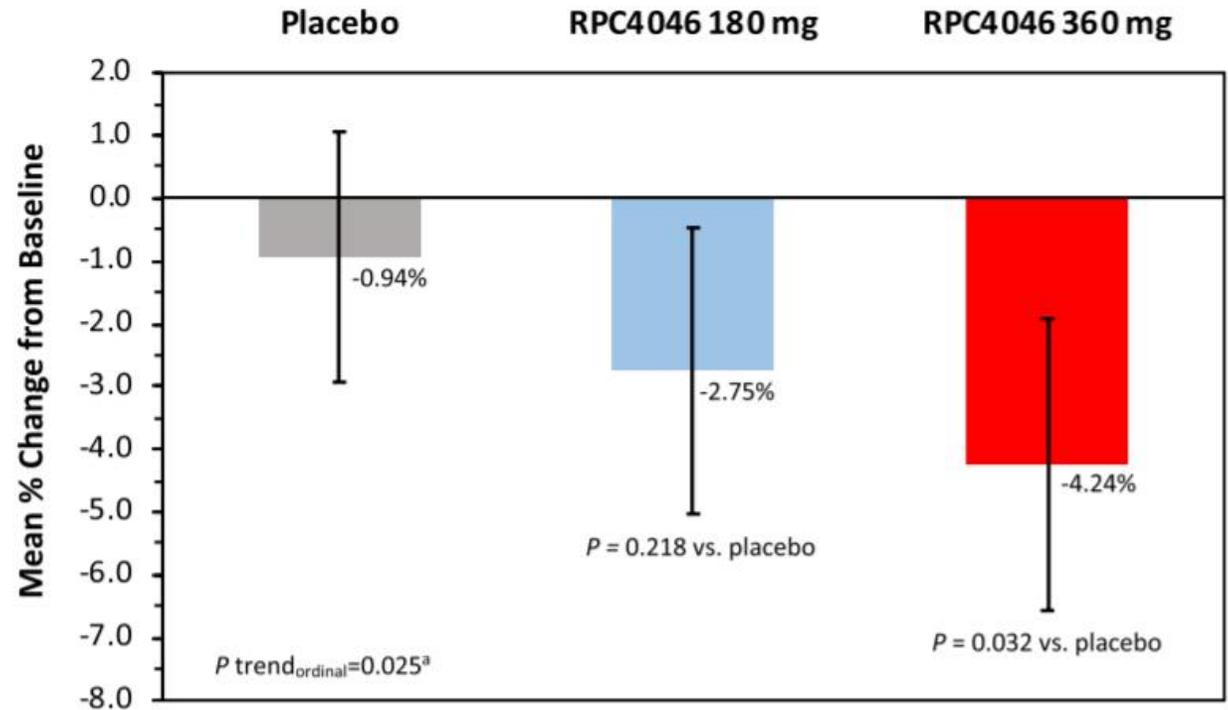


FIG 2. Mean change (95% CI) in the percentage of vimentin-positive epithelial cells from baseline to follow-up biopsy sample by treatment group. ^a $P_{\text{trend}_{\text{ordinal}}}$ is a test for linear trend in the regression model with dose level coded as (1,2,3). All P values are 2 sided.

Perioperative antibiotic prophylaxis and penicillin allergy

- Penicillin allergy label restricts perioperative use of beta-lactams
- Use of second-line antibiotics is associated with increased risk of surgical site infection
- Objective : to develop a streamlined approach to perioperative antibiotic selection for surgical patients with penicillin allergy label, to reduce the use of second-line antibiotics
- N=2296
- 22% received a cephalosporin before algorithm implementation, 80% after
- Results : Safe approach ++ : no serious adverse event

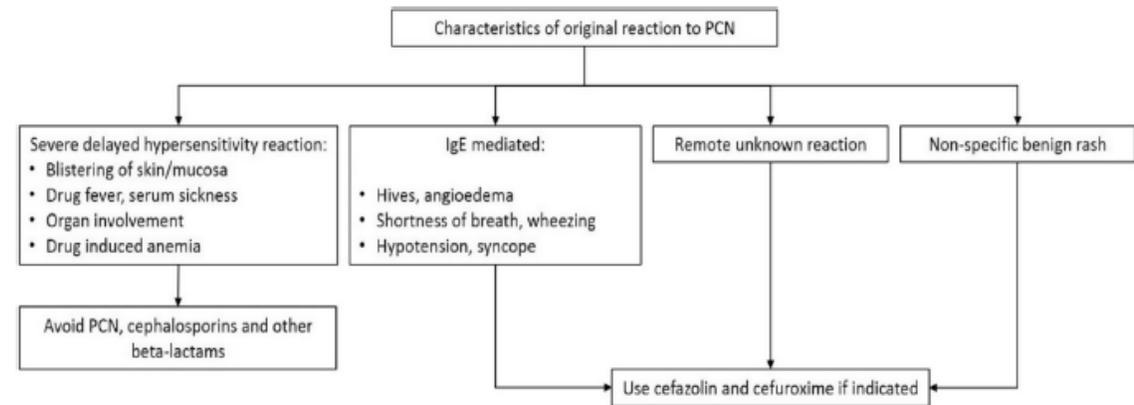


FIGURE 1. Perioperative penicillin allergy algorithm. Institutional algorithm for cefazolin/cefuroxime use in patients with reported allergy to penicillin. In the absence of a severe, delayed reaction, patients with a penicillin allergy can receive cefazolin and cefuroxime. PCN, Penicillin.

Conclusion :
The use of cefuroxime / cefazoline is possible in some patients labeled "allergic to penicillins" without skin testing

Penicillin Allergy Assessment
<ul style="list-style-type: none"> • Did you have a severe skin reaction involving blisters on your skin and shedding or detachment of your skin? (SJS/TEN) • Were you told you had Stevens -Johnson Syndrome (SJS) or Toxic Epidermal Necrolysis (TEN)? • Did you have liver injury or hepatitis caused by the medication? • Did you have kidney injury, nephritis or acute renal failure caused by the medication (acute interstitial nephritis)? • Were you told you had hemolytic anemia caused by the medication? (Low hemoglobin or hematocrit or "blood counts" counts caused by penicillin) • Did you have painful swollen joints caused by the medication (serum sickness)? • Were you diagnosed with "drug fever"? (A fever caused by the antibiotic that developed about a week after starting the medication and then went away when you stopped the antibiotic?) • Did you have a severe reaction involving the inside of your mouth, eye, or genital ulcers?

Merci pour votre
attention