

Treating Chronic Rhinosinusitis with Nasal Polyposis

Update on Severe Asthma 2026
March 16-17, 2026

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BRIGHAM HEALTH



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Disclosures

None

Discuss

- Case example
- Diagnosis of CRS
- Differentiate subtypes of CRS
- Treatment of CRS with nasal polyps

What is Chronic Rhinosinusitis?

Table I-2: Diagnostic criteria for diagnosis of CRS

Greater than or equal to 12 weeks of:

Two or more of the following symptoms:

Nasal discharge (rhinorrhea or post-nasal drip)

Nasal obstruction or congestion

Hyposmia

Facial pressure or pain

Cough (in Pediatric CRS)

AND

One or more of the following objective findings:

Evidence of inflammation on nasal endoscopy or computed tomography

Evidence of purulence coming from paranasal sinuses or ostiomeatal complex

AND

CRS is divided in to CRSsNP or CRSwNP based on the presence or absence of nasal polyps

ICAR 2020

Case Example

Patient A

- 41yof with sinus issues for the last 2 years
- Started with a cold that never went away
- FESS one year ago
- Persistent facial pressure, thick secretions, PND
- PMH: MS on Rituxan, MGUS, low IgM, prolactinoma

Patient Z

- 27yom with sinus issues for the last few years, worse in the last 6 months
- Feels it may be related to allergies
- Nasal obstruction, congestion, loss of smell
- PMH: seasonal allergies-dust

Patient A

- Cultures: Negative (after abx)
- Allergy testing: skin testing negative
- Asthma: none
- ASA/NSAID: no sensitivity
- SNOT22: 65

Patient Z

- Cultures: none
- Allergy testing: skin testing positive for aspergillus, ragweed, grass, dog, cat, penicillium, birch, oak, dust mites
- Asthma: none
- ASA/NSAID: no sensitivity
- SNOT22: 30

Patient A

- OC/OP: Significant yellow-green purulence along posterior pharyngeal wall, extending from nasopharynx
- Endoscopy exam:
 - Middle meatus w/ significant mucoid drainage
 - Scattered mucoid drainage throughout

Patient Z

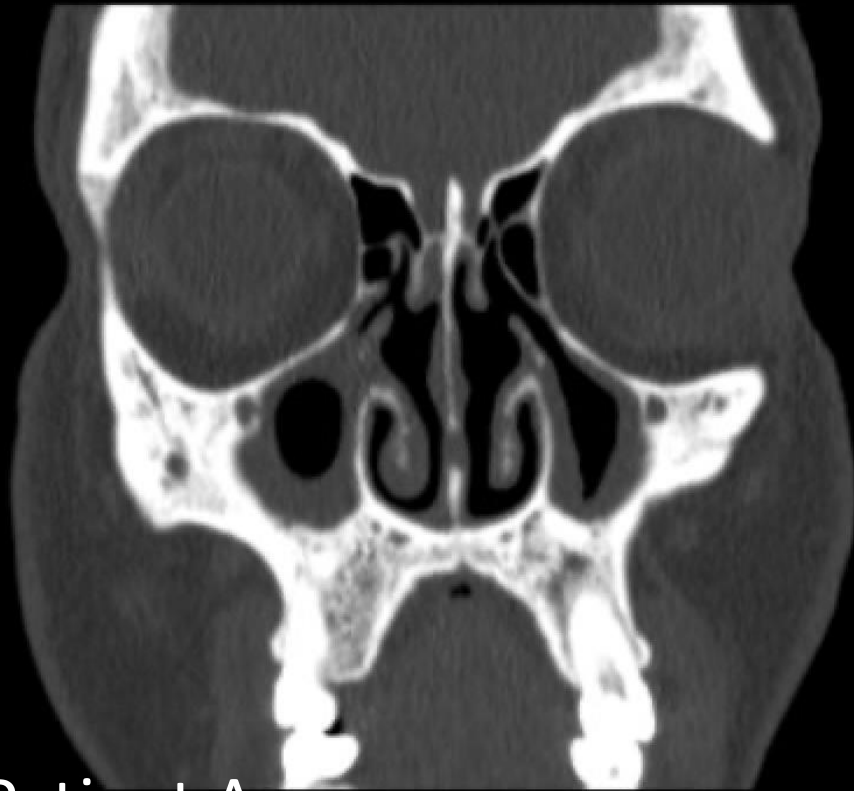
- Voice: hyponasal
- OC/OP: cobblestoning posterior pharynx
- Endoscopy exam:
 - Deviated septum
 - NP extending to floor medial to MT
 - NP full on left, but able to pass the scope

Patient A

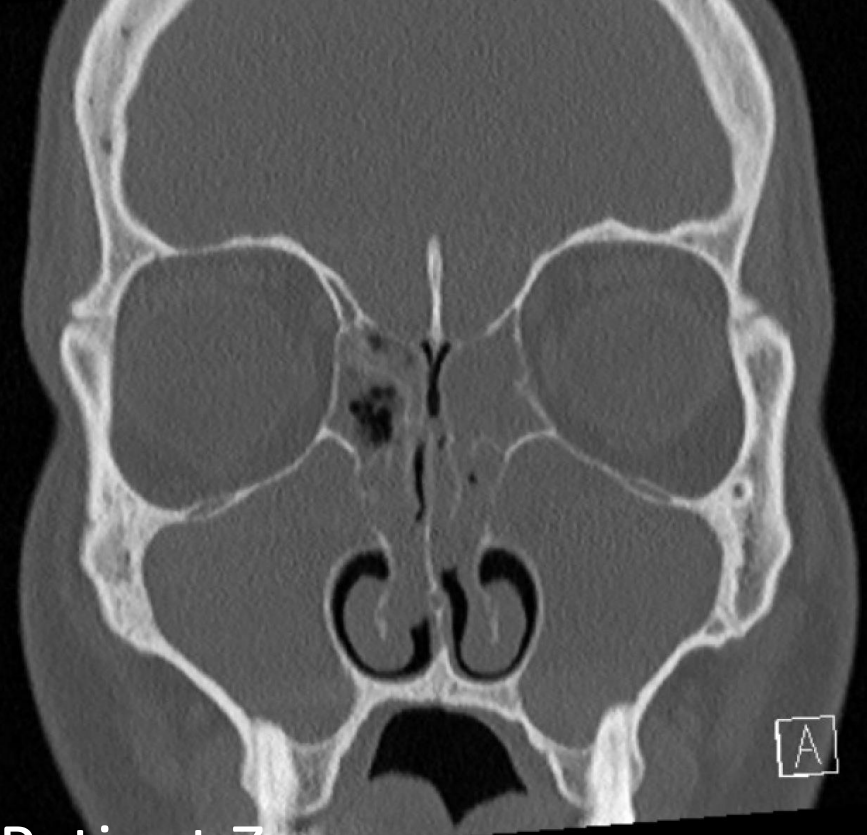
- Cultures:
Haemophilus influenzae
+Beta lactamase

Patient Z

- Cultures: None



Patient A



Patient Z

CT Imaging

Nasal Polyps on Endoscopy

Patient A

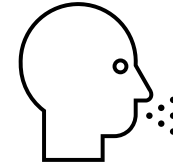
TABLE VII-11. The diagnostic criteria for CRSsNP

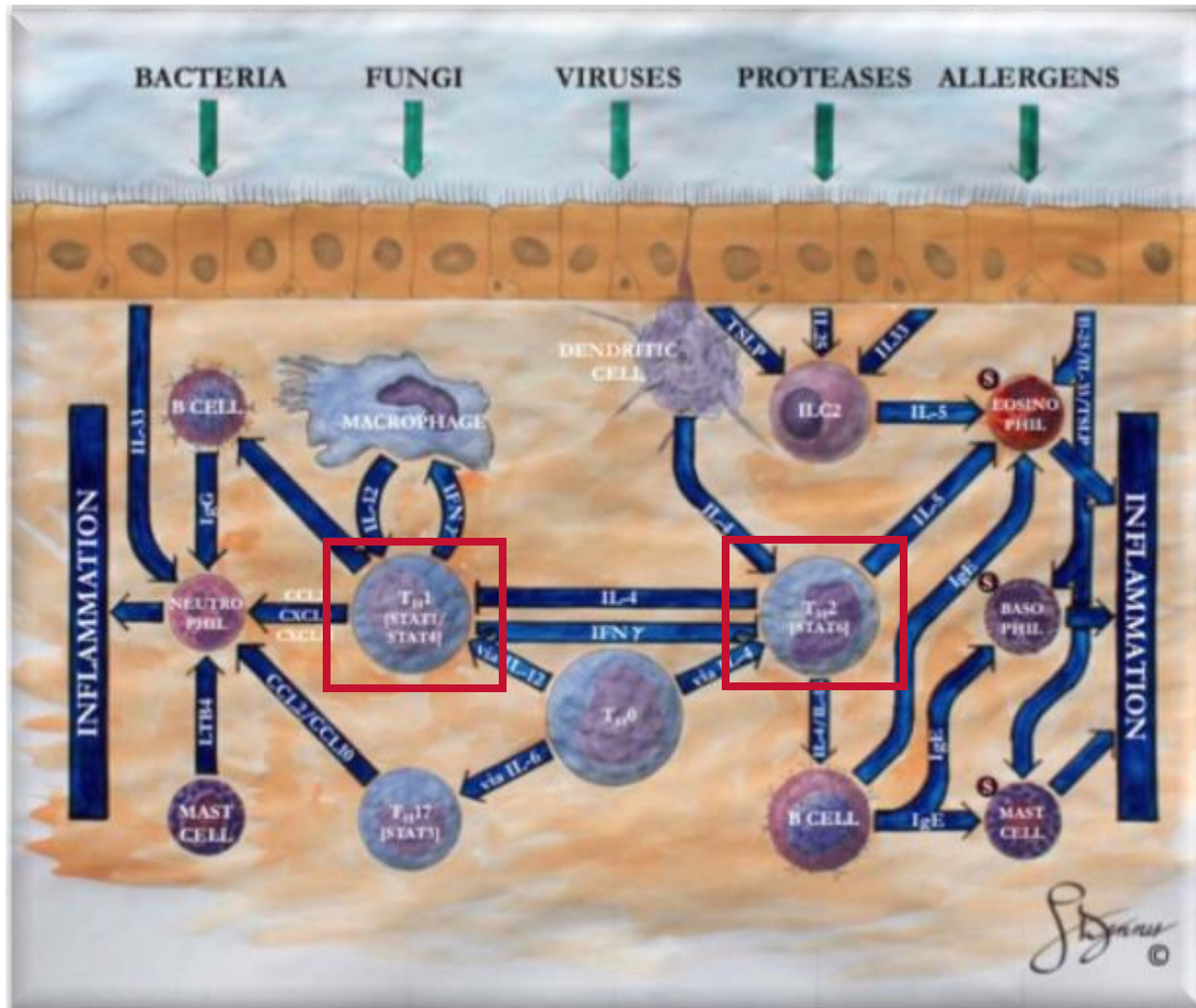
Greater than or equal to 12 weeks of:
<p>2 or more of the following symptoms:</p> <ul style="list-style-type: none"> Mucopurulent discharge (rhinorrhea or PND) Nasal obstruction and congestion Decreased or absent sense of smell Facial pressure or pain <p>AND</p> <p>1 or more of the following findings:</p> <ul style="list-style-type: none"> Evidence of inflammation on paranasal sinus examination or CT Evidence of purulence coming from paranasal sinuses or OMC <p>AND</p> <p>Lack of polyps</p>

Patient Z

TABLE VIII-6. The diagnostic criteria for CRSwNP

Greater than or equal to 12 weeks of:
<p>2 or more of the following symptoms:</p> <ul style="list-style-type: none"> Mucopurulent discharge (rhinorrhea or PND) Nasal obstruction and congestion Decreased or absent sense of smell Facial pressure or pain <p>AND</p> <p>1 or more of the following findings:</p> <ul style="list-style-type: none"> Evidence of inflammation on paranasal sinus examination or CT Evidence of purulence coming from paranasal sinuses or ostiomeatal complex <p>AND</p> <p>Presence of polyps</p>





Dennis et al. 2016.

Biologics and targets in CRSwNP

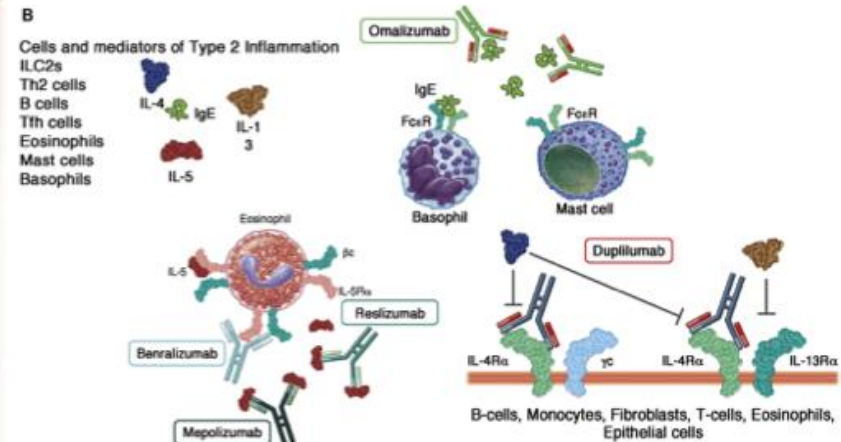
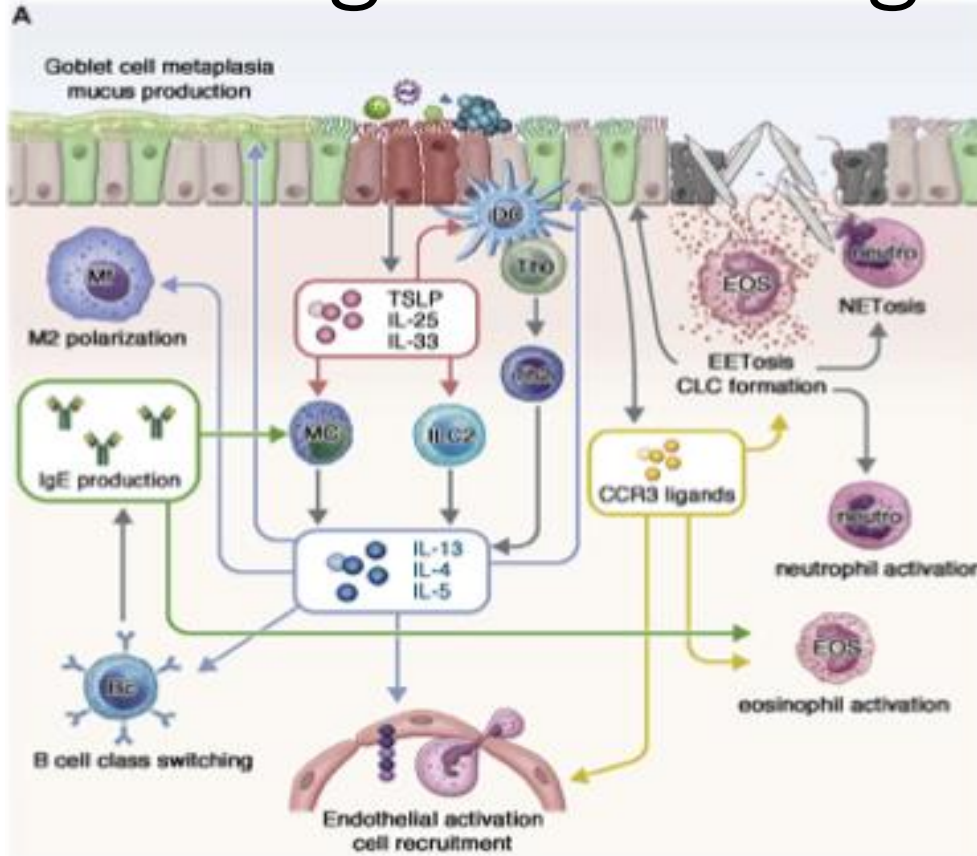
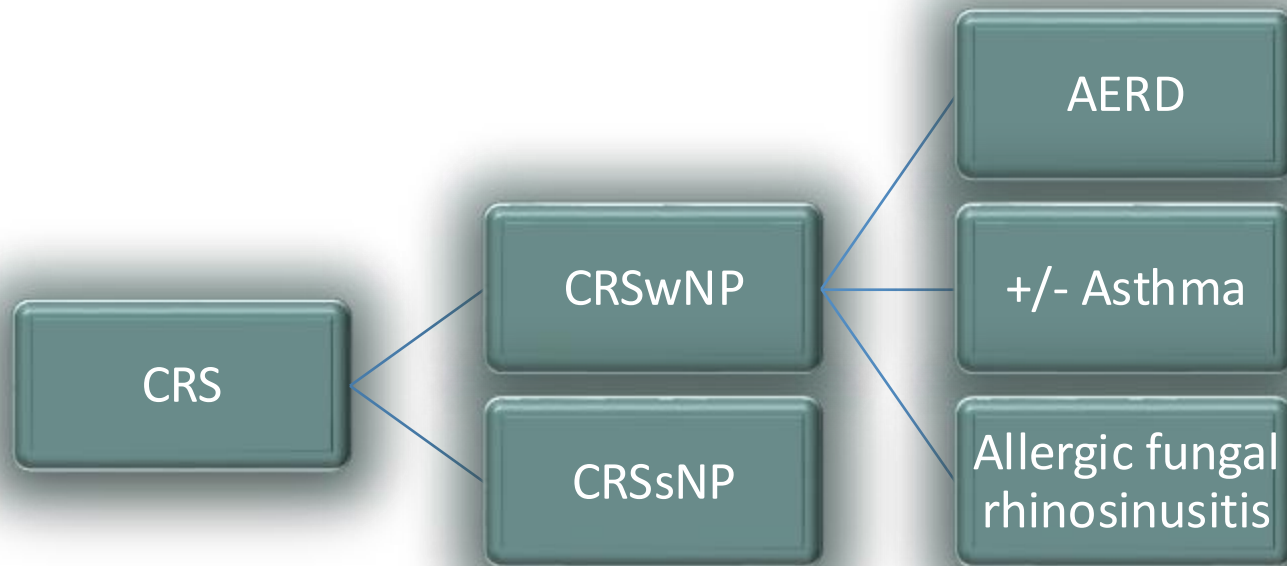


FIG 2. Continued.

FIG 2. Biologics and their targets in type 2 inflammation in CRSwNP. **A.** Target cytokines in type 2 immune reactions. **B.** Cells and mediators of type 2 inflammation and corresponding biologics. *CCR-3*, C-C motif chemokine receptor 3; *CLC*, Charcot-Layden-Crystal; *DC*, dendritic cell; *EOS*, eosinophils; *IL-4Rα*, IL-4 receptor alpha; *IL-13Rα*, IL-13 receptor alpha; *neutro*, neutrophils.

Bachert et al. 2020.

What is the difference between the phenotypes of CRS?



Periostin as a Biomarker for Nasal Polyps in Chronic Rhinosinusitis

Alice Z. Maxfield, MD^{1,2}, Lukas D. Landegger, MD^{2,3},
Christopher D. Brook, MD⁴, Ashton E. Lehmann, MD^{2,3},
Adam P. Campbell, MD^{2,3}, Regan W. Bergmark, MD^{2,3},
Konstantina M. Stankovic, MD, PhD^{2,3*}, and Ralph Metson, MD^{2,3*}



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SAGE

Periostin Level by Polyp and Asthma Status

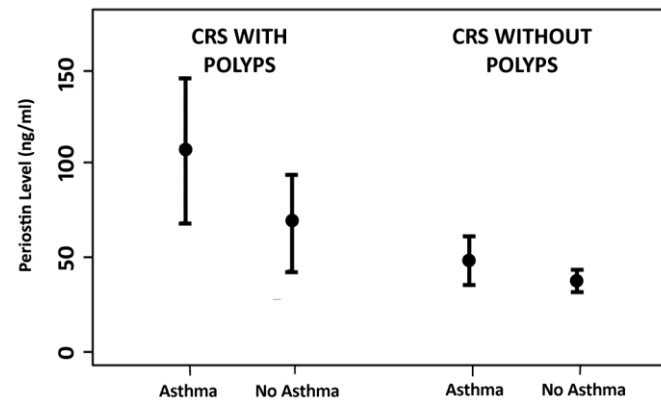


Figure 2. Periostin levels by nasal polyp and asthma status. Although mean serum periostin levels were higher for patients with asthma in both groups—chronic rhinosinusitis (CRS) with and without nasal polyps—this difference was not significant. Values are presented as means (95% CI).

Periostin as a Biomarker for Nasal Polyps in Chronic Rhinosinusitis

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SAGE

Periostin Level by Polyp Status

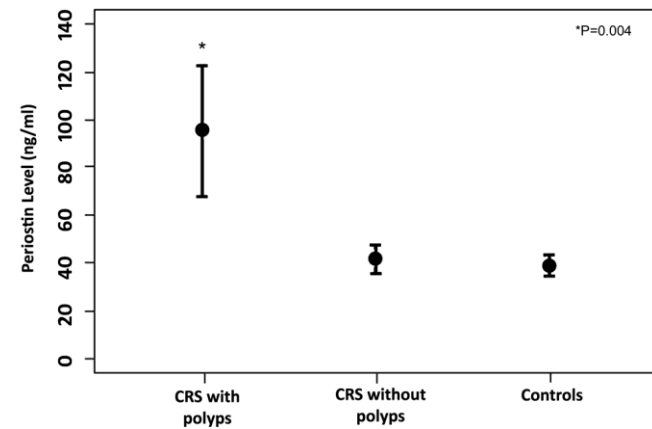


Figure 1. Periostin level by nasal polyp status. Serum periostin level was significantly higher in patients with chronic rhinosinusitis (CRS) and nasal polyps versus patients with CRS without nasal polyps and controls ($P = .004$). Values are presented as means (95% CI).

Goals

- Predict course of disease
- Predict response to treatment

Goals of treatment

- Increase quality of life
- Control disease progression

- Enhance mucociliary clearance
- Improving sinus drainage pathways
- Eradicate local infection/inflammation
- Improve access for delivery of topical medications

Challenges in Treatment of CRS

- Difficulty correlating patient symptoms with objective measures of inflammation
- Predicting long term response to medical therapy
- Relapses of symptoms and disease

ORIGINAL ARTICLE

International Consensus Statement on Allergy and Rhinology: Rhinosinusitis

CRSwNP Treatment

- Nasal saline irrigation
- Topical steroids
- Oral corticosteroids (A)
- Antibiotics
 - Oral
 - Irrigation (A) [CRSwNP and CRSsNP]
- ASA desensitization for AERD (A)
- Dupilumab (A)
- Endoscopic Sinus Surgery

CRSwNP Treatment

- Nasal saline irrigation (A)
- Topical steroids
 - Spray (A, strong recommendation)
 - Irrigation (ie budesonide) (A, strong recommendation)
- Oral corticosteroids (A)
- Antibiotics
 - Oral
 - Nonmacrolide <3 weeks (B)
 - Nonmacrolide >3 weeks (N/A)
 - Macrolide (B)
 - Irrigation (A) [CRSwNP and CRSsNP]
- ASA desensitization for AERD (A)
- Dupilumab (A)
- Endoscopic sinus surgery

Hopkins et al. 2015
Benninger et al 2016

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Nasal Saline Irrigation

- Isotonic saline irrigation
- Low positive pressure
- Used in combination with intranasal corticosteroid spray
- RCT showed improved symptom severity, symptom frequency, QOL
- Benefits:
 - Mucociliary clearance
 - Clear eosinophilic mucin
 - Decreased viscosity
 - Decreased edema
 - Mechanical lavage of debris
 - Decreased medication usage, specifically antibiotics

Topical Intranasal Corticosteroids (A, strong recommendation)

- Improvement:
 - sinonasal symptoms – nasal blockage, rhinorrhea, smell (not for facial pressure/pain)
 - polyp size and recurrence
 - QOL
 - olfaction
- Especially when used in combination with nasal saline irrigation.
- No difference in effectiveness between types of intranasal steroids.



Fokkens et al. 2012
Orlandi et al. 2016
Chong et al. 2016
Kalish et al. 2012

Oral Corticosteroids

(A, strong recommendation for short-term use)

- Short term improvement in sinonasal symptoms
- No long-term improvement
- Need to weigh risks and benefits/adverse effects

Oral Non-Macrolide Antibiotics

(B, recommendation against)

- Lack of good data regarding efficacy
- Some studies show benefit in patients with polyps
- Cochrane review – very little evidence that systemic antibiotics are effective in patients with CRS
- More studies needed in the subtypes of CRS
- Short course doxycycline appears to have some benefit in those with nasal polyp size reduction
- Long term macrolides have mixed results, no clear lasting benefit.

Barshak & Durand 2017

The Laryngoscope
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Rhinological and Otological Society, Inc.

General Antibiotic Exposure Is Associated With Increased Risk of Developing Chronic Rhinosinusitis

Alice Z. Maxfield, MD; Hakan Korkmaz, MD; Luciano L. Gregorio, MD; Nicolas Y. Busaba, MD;
Stacey T. Gray, MD; Eric H. Holbrook, MD; Rong Guo, MS; Benjamin S. Bleier, MD

Oral Macrolide Antibiotics

(B, option)

- Macrolide antibiotics have anti-inflammatory and immunomodulatory properties.
- There is an effect on the neutrophilic components of the inflammatory response, thereby targeting Th1-mediated non eosinophilic CRS.
- Potential adverse effects: Cardiovascular risk, prolonged QT interval, elevated LFTs, ototoxicity, GI side effects.

Barshak & Durand 2017

Topical Budesonide Irrigation

- ***Dilute irrigation:*** 240mL of saline
 - with 0.5mg/2mL respule of budesonide 1-2x daily
- ***Concentrated irrigation:*** 5mL of saline
 - 0.5mg/2mL respule of budesonide daily
- In AERD patients, significant improvement in SNOT22 and nasal polyp size
- Improved:
 - Symptoms
 - Radiographic scores
 - Endoscopy appearance
- No evidence of adrenal axis suppression



Talat et al. 2021

Topical Mometasone Irrigation

- Dilute irrigation: 240mL of saline
 - with 2mg of mometasone 1-2x daily
- Low concentration:
 - With 0.6 mg vs high concentration 2-4mg
- Superior pharmacokinetic profile, increased local efficacy, low systemic absorption
- Mometasone 2mg daily via nasal spray or large volume irrigation for 12 months
 - The irrigation group had larger improvement in nasal blockage, LM Score, and modified LK score.
 - Overall 12 month symptom VAS was better in the irrigation group.
- Corticosteroid irrigation is beneficial in long term maintenance in CRSwNP, and f/u longer than 3-6 months post ESS.
- In CRSwNP, no evidence of HPA axis suppression with mometasone irrigation (2mg twice daily).

Brown et al. 2021
Harvey et al. 2018
Talat et al. 2021

ASA Desensitization in AERD

(A, recommendation)

- Improvement in
 - HRQoL
 - Sinusitis symptoms
 - Smell
 - Rescue nasal polyp surgery
 - Nasal polyp size
- Lasting endoscopic and symptomatic improvement

Oykhman et al. 2021

Updated Treatment of Non-Steroidal Anti-Inflammatory Drug-Exacerbated Respiratory Disease: How to Decide on Aspirin Therapy After Desensitization or Biologics? When? How? An EAACI Task Force Report

Gülfem E. Çelik¹ | Joanna S. Makowska² | Maria Jose Torres^{3,4} | Cristobalina Mayorga^{5,6} | Tanya M. Laidlaw⁷ | Alessandra Vultaggio⁸ | Sanna Toppila-Salmi^{9,10,11} | Ludger Klimek¹² | Asli Gelincik¹³ | Annick Barbaud^{14,15} | Lene H. Garvey^{16,17} | Ömür Aydın¹⁸ | Thomas Eiwegger^{19,20,21,22} | Katharine M. Woessner²³

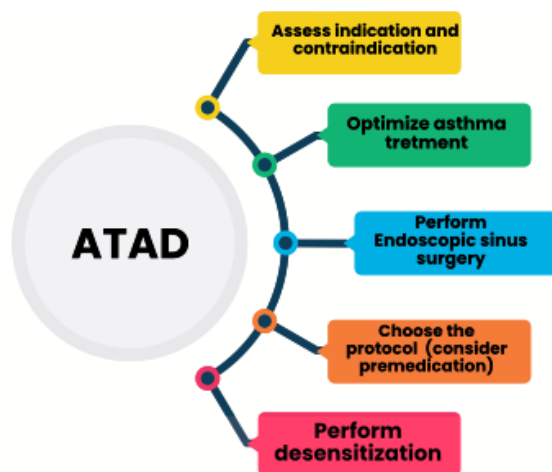


FIGURE 2 | Steps to be taken on ATAD.

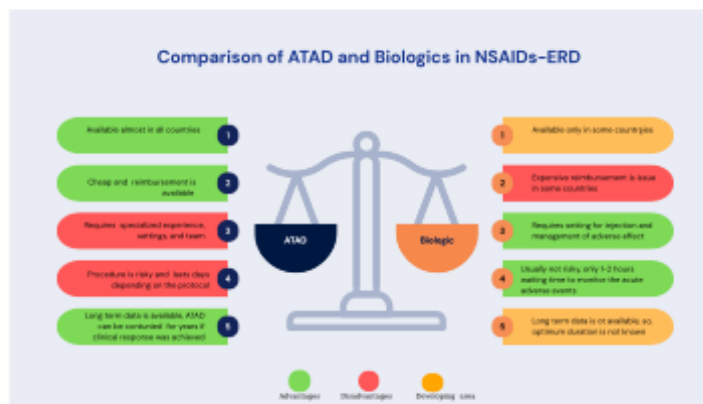


FIGURE 6 | Comparison of ATAD and Biological treatments in the management of NSAID-ERD.

Endoscopic Sinus Surgery



Mucosal preserving



Widen sinus drainage pathways



Allow better delivery of
medication



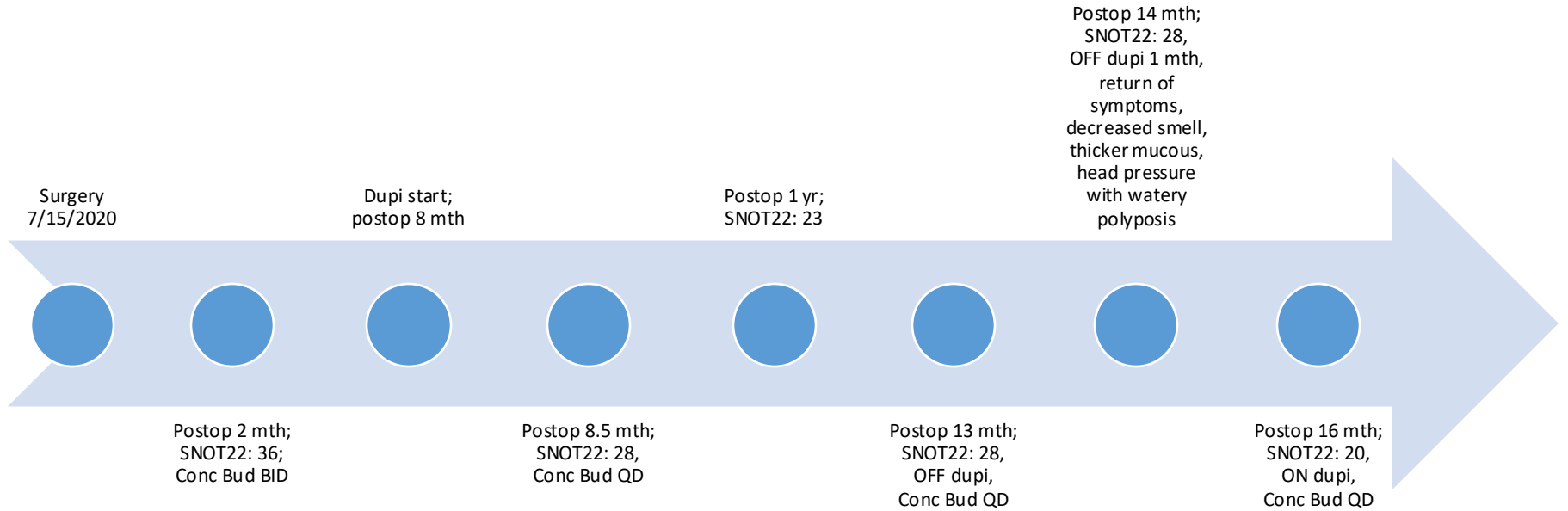
Establish nasal airway and sinus
outflow



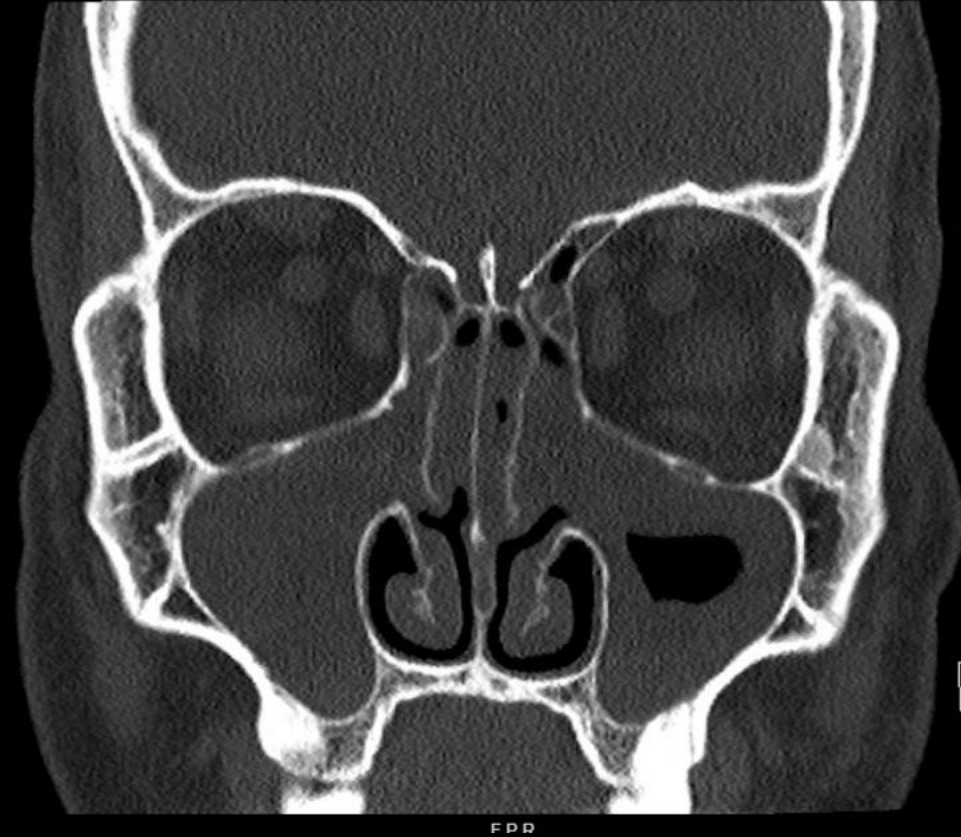
Decrease overall inflammatory
disease burden

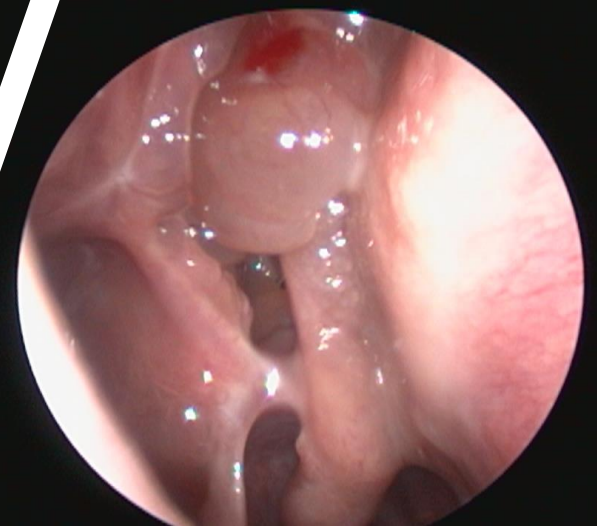
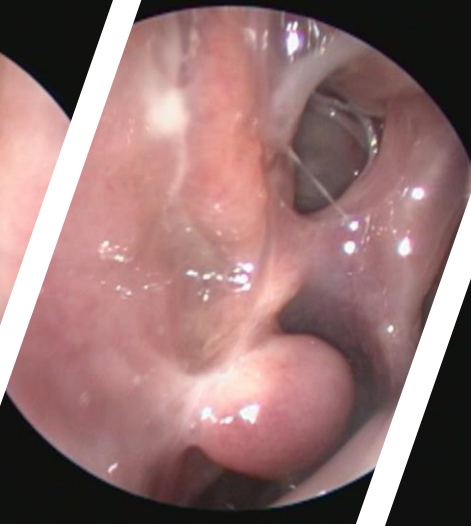
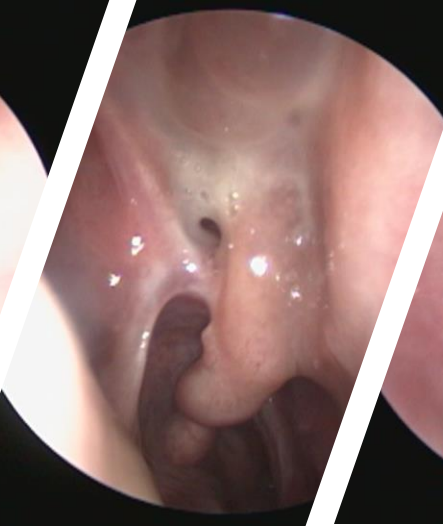
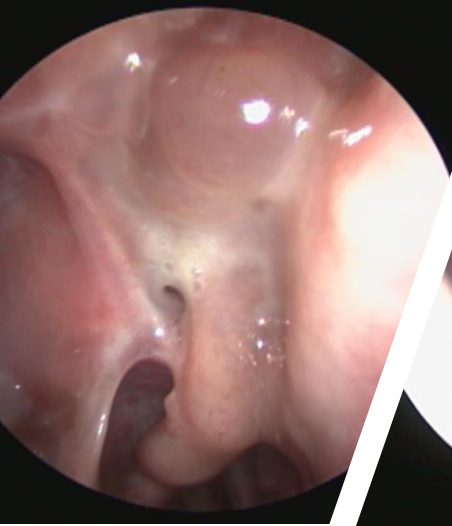
CRSwNP s/p surgery, budesonide dilute

Patient RR



Preoperative



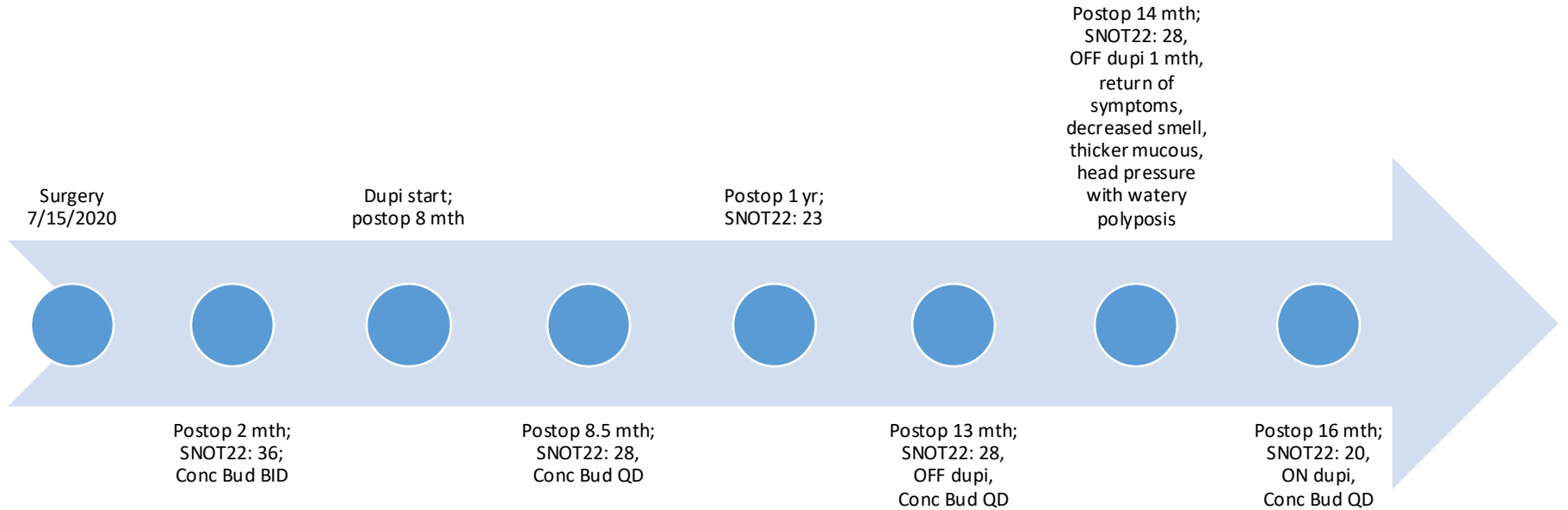


Postoperative 2 months
9/25/2020: SNOT22 39,
conc budesonide BID

RD
IN

ON dupilumab for 5 mths, OFF for 1 mth

Patient RR



Biologics



REVIEW ARTICLE

The role of biologics in chronic rhinosinusitis: a systematic review

Isma Z. Iqbal, PgCertMEd, FRCS(ORL-HNS)¹, Stephen Shih-Teng Kao, MBBS, MClInSc² and
Eng Hooi Ooi, PhD, FRACS³

Table 1 Table Describing Biologics Discussed Including: Name, Target, FDA Approvals, Mechanism, Dosing and Side Effects

Generic Name	Trade Name	Target	FDA Approvals	Dosing	Side Effects
Omalizumab	Xolair	Anti-IgE via Fc receptor blockade	CRSwNP; Allergic Asthma; Chronic Urticaria	Subcutaneous injection every 2–4 weeks	<ul style="list-style-type: none"> • Sinusitis • Headache • Pharyngitis • Injection site reaction • 0.2% risk of anaphylaxis
Mepolizumab	Nucala	Anti-IL5	Eosinophilic Asthma	Monthly subcutaneous injections	<ul style="list-style-type: none"> • Headache • Fatigue • Injection site reaction
Benralizumab	Fasenra	Anti-IL5 via IL5-R alpha receptor blockade		Monthly subcutaneous injections for 3 months then every other month	<ul style="list-style-type: none"> • Headache • Pharyngitis • Injection site reaction
Dupilumab	Dupixent	Anti-IL4 and IL-13 via IL-4Ra receptor blockade	CRSwNP; Atopic Dermatitis	Subcutaneous injection every other week	<ul style="list-style-type: none"> • Nasopharyngitis • Headache • Injection site reaction

Anti-IL33 Tezepelumab (Tezspire) - Anti-TSLP

Biologics for Nasal Polyposis

- Cost
 - Estimated cost per year >\$30,000 on average
 - Cost utility analysis of dupilumab vs ESS
 - Surgery cost \$50,346.99 with 9.80 QALYs vs. dupilumab cost \$536,420.22 with 8.95QALYs
 - Authors concluded that ESS was less costly and more effective than dupilumab.

(Scangas et al)

Which Is the Best Biologic for Nasal Polyps: Dupilumab, Omalizumab, or Mepolizumab? A Network Meta-Analysis

Qingwu Wu^{a, b} Yana Zhang^a Weifeng Kong^a Xinyue Wang^a Lianxiong Yuan^c
Rui Zheng^a Huijun Qiu^a Xuekun Huang^{a, b} Qintai Yang^{a, b}

^aDepartment of Otorhinolaryngology-Head and Neck Surgery, The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China; ^bDepartment of Allergy, The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China; ^cDepartment of Science and Research, The Third Affiliated Hospital of Sun Yat-Sen University, Guangzhou, China

Paul Oykhman, MD, MSc,^a Fernando Aleman Paramo, MD,^a Jean Bousquet, MD,^{d,e,f} David W. Kennedy, MD,^g
 Romina Brignardello-Petersen, PhD,^b and Derek K. Chu, MD, PhD^{a,b,c} *Hamilton, Ontario, Canada; Berlin, Germany;
 Montpellier, France; and Philadelphia, Pa*

GRAPHICAL ABSTRACT

 **Comparative efficacy and safety of monoclonal antibodies and aspirin desensitization for chronic rhinosinusitis with nasal polyps: a systematic review and network meta-analysis**

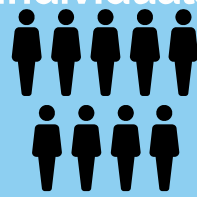
Chronic Sinusitis
With Nasal Polyps



29
Randomized Trials



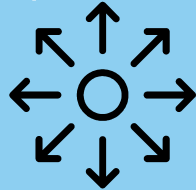
3461
Individuals



9
Treatments



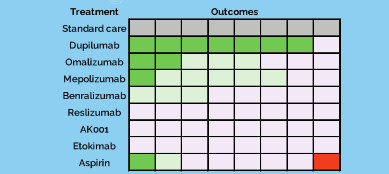
Network Meta-Analysis
Comparative Effects







Outcomes

Quality of life
Symptoms
Smell
Rescue surgery
Rescue systemic steroids
Nasal polyp size
Radiographic severity
Adverse events

Important Differences Among
Treatments and Outcomes



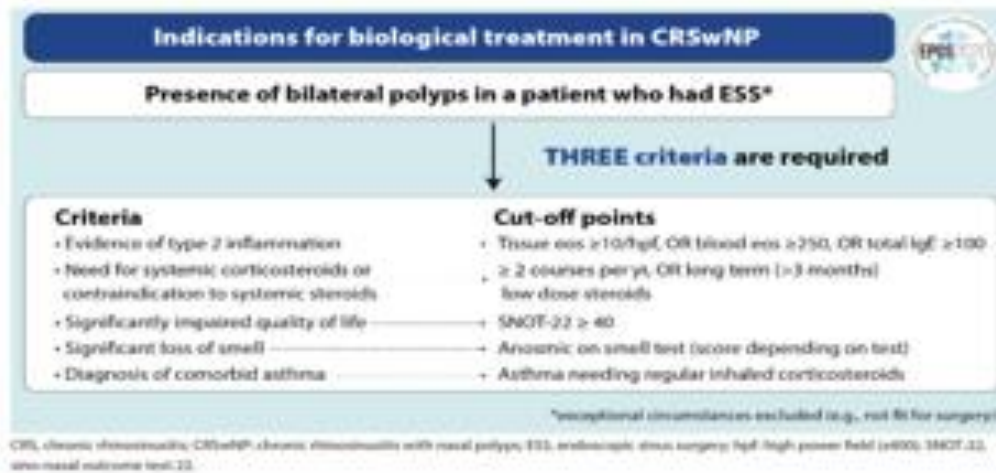
GRADE    

Among most beneficial Among intermediate beneficial Among least beneficial Among harmful



	Patient-important outcomes						Surrogate outcomes	
	HRQoL SNOT-22 (0-110) [‡]	Symptoms VAS (0-10 cm)	Smell UPSIT (0-40) [†]	Rescue OCS	Rescue polyp surgery	Adverse events	Nasal polyp size (0-8)	CT score LMK (0-24)
Standard care*	50.11	6.84	14.04	31.96%	21.05%	73.78%	5.94	18.35
Dupilumab	-19.91 (-22.50, -17.32)	-3.25 (-4.31, -2.18)	10.96 (9.75, 12.17)	-21.73 (-24.61, -18.22) RR 0.32 (0.23, 0.43)	-16.35 (-18.13, -13.48) RR 0.22 (0.14, 0.36)	0.13 (-8.12, 9.88) RR 1.00 (0.88, 1.13)	-2.04 (-2.73, -1.35)	-7.51 (-10.13, -4.89)
Omalizumab	-16.09 (-19.88, -12.30)	-2.09 (-3.15, -1.03)	3.75 (2.14, 5.35)	-12.46 (-23.65, 12.78) RR 0.61 (0.26, 1.40)	-7.40 (-11.04, -2.43) RR 0.65 (0.48, 0.88)	-2.60 (-15.58, 13.28) RR 0.96 (0.79, 1.18)	-1.09 (-1.70, -0.49)	-2.66 (-5.70, 0.37)
Mepolizumab	-12.89 (-16.58, -9.19)	-1.82 (-3.13, -0.50)	6.13 (4.07, 8.19)	-10.23 (-15.98, -2.88) RR 0.68 (0.50, 0.91)	-12.33 (-15.56, -7.22) RR 0.41 (0.26, 0.66)	-3.07 (-13.44, 9.07) RR 0.96 (0.82, 1.12)	-1.06 (-1.79, -0.34)	
Benralizumab	-7.68 (-12.09, -3.27)	-1.15 (-2.47, 0.17)	2.95 (1.02, 4.88)	-9.91 (-16.30, -0.96) RR 0.69 (0.49, 0.97)	-2.53 (-9.05, 7.16) RR 0.88 (0.57, 1.34)	-1.48 (-13.28, 12.54) RR 0.98 (0.82, 1.17)	-0.64 (-1.39, 0.12)	-1.00 (-3.83, 1.83)
Reslizumab					-18.82 (-20.93, 20.56) RR 0.11 (0.01, 1.98)	-2.55 (-19.49, 19.18) RR 0.97 (0.74, 1.26)		
AK001						2.54 (-27.11, 51.03) RR 1.03 (0.63, 1.69)	-0.20 (-1.61, 1.21)	
Etokimab	-1.30 (-8.99 to 6.40)					188.14 (-59.76, 4879.1) RR 3.55 (0.19, 67.13)	-0.33 (-1.58, 0.92)	
ASA Desensitization	-10.61 (-14.51, -6.71)	-2.74 (-3.92, -1.57)	2.72 (-1.17, 6.61)		-16.00 (-19.79, 0.21) RR 0.24 (0.06, 1.01)	209.21 (8.30, 901.87) RR 3.84 (1.11, 13.22)	-0.95 (-2.44, 0.55)	-0.31 (-3.50, 2.88)
Classification of intervention (colour)²⁴						Certainty (shading)^{24, 29}		
Among most beneficial		Among intermediate beneficial		Among least beneficial/not		No data	High/moderate (solid)	
Among most harmful		Among intermediate harmful		clearly different from placebo		(blank)	Low/very low (shaded)	

EPOS2020 criteria



EPOS/EUFOREA 2023 criteria



Figure 1. Adjustments in EPOS/EUFOREA criteria. The only change is the reduction of blood eosinophils to 150 cells/ μL .

Unanswered questions

- Which type of patient?
 - Refractory disease
- Timing of biologic?
- Is there a clear advantage of biologic over surgery?
 - Durability of surgery is improved compared to dupilumab.
- Is there advantage between biologics?
 - Current FDA approval and trial data suggests dupilumab is most efficacious choice in Caucasian populations with CRSwNP.
- Long term results?
- Long term side effects?

Morse, Miller, Senior. 2021

Maximal Medical Therapy?

- There is no standardized medical therapy regimen for CRS.
- Lal et al. treated with minimum 4 weeks -
oral antibiotics, oral steroids, topical nasal steroids, topical nasal decongestant rotation, saline irrigation
 - 51% successfully treated
 - 17% partial improvement
 - 31% underwent surgery

Lal et al. 2014.



Mucosal preserving



Widen sinus drainage pathways



Allow better delivery of medication



Establish nasal airway and sinus outflow

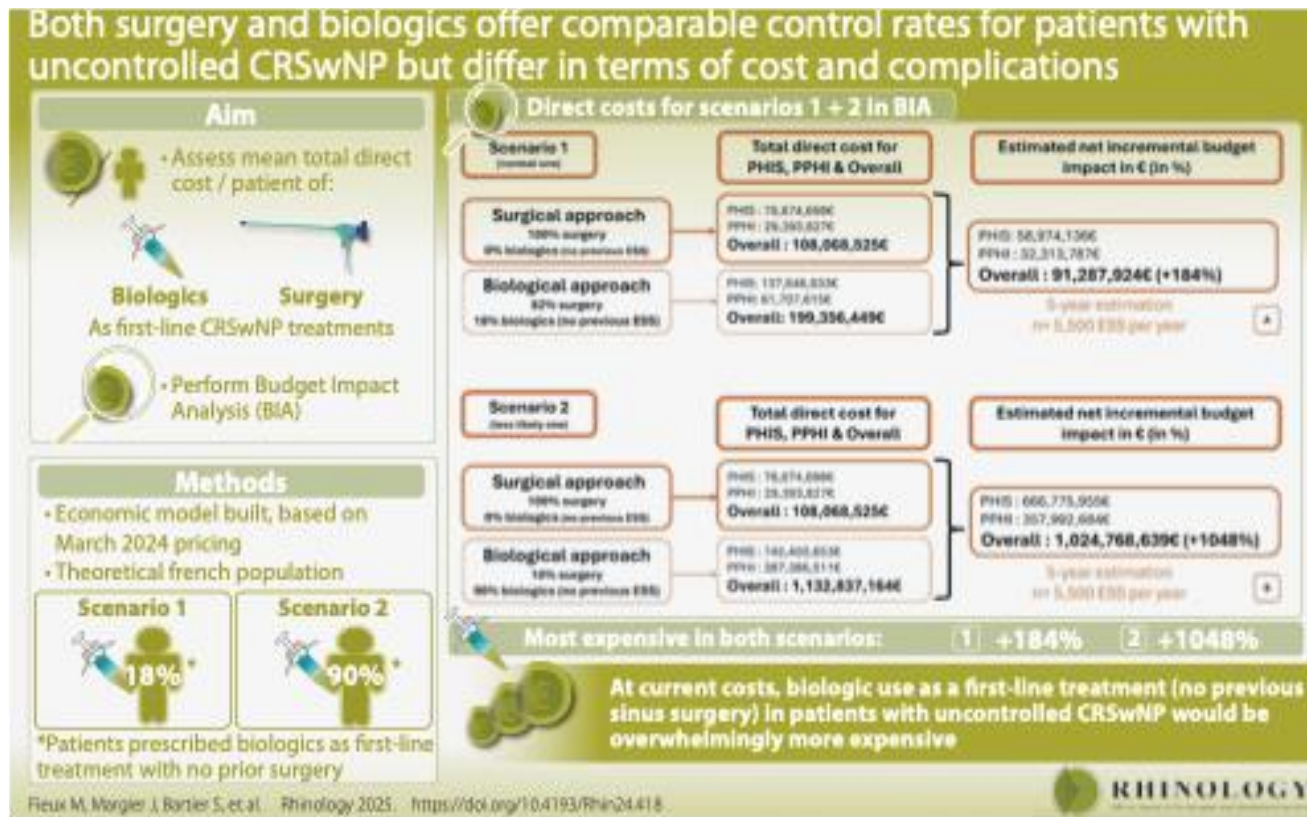


Decrease overall inflammatory disease burden

The extra cost of biologics as first-line treatment in uncontrolled chronic rhinosinusitis with nasal polyps with no previous sinus surgery is overwhelming: a budget impact analysis



Maxime Fieux^{1,2*}, Jennifer Margier^{3*}, Sophie Bartier⁴, Michael Chang⁵, Florent Carsuzaa⁶, Peter H. Hwang⁵, Zara M. Patel⁵, Stéphane Tringali^{1,2}, Valentin Favier⁷, Thibault Savary¹ *Rhinology* 63: 4, 495 - 504, 2025 <https://doi.org/10.4193/Rhin24.418>



Fieux M, Margier J, Bartier S, et al. *Rhinology* 2025. <https://doi.org/10.4193/Rhin24.418>

Endotyping

- CRS currently classified by phenotype.
- 38-51% of CRS patients fail to respond to recommended medical therapies.
- This highlights the limitations of the current treatments of CRS.
- There is heterogeneity within cellular and molecular pathways that lead to these subtypes.
- Thus, defining molecular biomarkers to further endotype these subtypes is crucial in determining targeted therapies.

Lal et al. 2016.
Baguley et al. 2014

Summary

- CRSwNP is a type II mediated inflammatory process.
- Asthma and CRS are highly associated and consideration of both is necessary for optimizing treatment.
- Nasal saline irrigation with corticosteroid spray is the first line and has been found to be useful.
- Topical corticosteroids are recommended for CRSwNP, with consideration for twice daily dosing.

Summary

- It is important to delineate the subtypes of CRSwNP to determine best treatment.
- INCS/topical steroids, nasal saline irrigation, endoscopic sinus surgery, AERD management, and biologics can be used in combination to optimize treatment.
- Patient symptomatology, characteristics, adherence, healthcare access should all be considered when making treatment plans with a multidisciplinary team.



Thank you!