**General Statistics of the 10 abstracts**

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| --- | --- | --- | --- | --- | --- |
| Abstract # | Title | Month, Year of Publication | Word Count | #Words (Verified by WordNet) | #Medical Words  (Verified by Bioportal / BioNLP)  All (Gene/Species/etc) |
| 1 | Comparison of the efficacy and mechanisms of intranasal budesonide, montelukast, and their combination in treatment of patients with seasonal allergic rhinitis | Aug, 2018 | 235 | 63 | 22 |
| 2 | Efficacy of montelukast as prophylactic treatment for seasonal allergic rhinitis. | Jul, 2018 | 251 | 75 | 27 |
| 3 | Oral allergy syndrome | Jan, 2018 | 205 | 69 | 25 |
| 4 | Pharmacologic Treatment of Seasonal Allergic Rhinitis: Synopsis of Guidance From the 2017 Joint Task Force on Practice Parameters | Dec, 2017 | 256 | 80 | 32 |
| 5 | Assessment of Different Cetirizine Dosing Strategies on Seasonal Allergic Rhinitis Symptoms: Findings of Two Randomized Trials | Jun, 2018 | 406 | 126 | 35 |
| 6 | Prevention and Control of Seasonal Influenza with Vaccines | Aug, 2018 | 425 | 132 | 21 |
| 7 | Endotyping of non-allergic, allergic and mixed rhinitis patients using a broad panel of biomarkers in nasal secretions. | Jul, 2018 | 248 | 86 | 22 |
| 8 | Seasonal ocular allergy and pollen counts | 2018 | 170 | 63 | 18 |
| 9 | Conjunctival provocation tests: prediction of seasonal allergy | 2018 | 188 | 67 | 18 |
| 10 | Effects of double-dose antihistamine or combined therapy in allergic rhinitis | Jan, 2018 | 262 | 79 | 20 |

**Abstract 1**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 48 | efficacy , nasal, spray, therapy, allergy, prevention |
| PoS:Verb | 22 | aimed, compare, use, show,  react, rate, treatment, undergo |
| Medical Words: Gene | 9 | Eosinophil, cationic, protein |
| Medical Words: Species | 6 | Budesonide, montelukast, |

**Abstract 2**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 52 | Cypress, need, pollen, season, weeks, allergy |
| PoS:Verb | 20 | Was, started, conclude ,show,  Induced, alleviating |
| Medical Words: Gene | 5 | prophylaxis, antileukotriene, inflammation, |
| Medical Words: Species | 8 | Patients, men, species, women |

**Abstract 3**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 32 | Grass, cylery, allergy, tomatoes, pollen, banana |
| PoS:Verb | 14 | Have, be, taken, is |
| Medical Words: Gene | 5 | Symptoms, allergy, response |
| Medical Words: Species | 6 | Zucchini. Cucumber, banana |

**Abstract 4**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 24 | American, college, treatment, years |
| PoS:Verb | 12 | Provided, is , comprises |
| Medical Words: Gene | 6 | Patients, allergy, immunology, inflammation, pharmacology |
| Medical Words: Species | 4 | Asthma, evidence, species |

**Abstract 5**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 28 | Symptoms, seasonal, allergy |
| PoS:Verb | 13 | Was, been, to, have |
| Medical Words: Gene | 5 | Cetirizine, rhinitis |
| Medical Words: Species | 8 | Symptoms, allergic, variations |

**Abstract 6**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 61 | Report, season, vaccine, Michigan, lineage |
| PoS:Verb | 28 | Reommended, used, inactivated, been, updated |
| Medical Words: Gene | 15 | Immunization, trivalent, vaccine, influenza |
| Medical Words: Species | 18 | Fluarix, influenza, periodical, rhinits |

**Abstract 7**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 47 | Subgroup, marker, panel, mediators |
| PoS:Verb | 21 | Has, identify, proven, resulted, taken |
| Medical Words: Gene | 12 | Endotyping, chronic, patient, complication |
| Medical Words: Species | 14 | Rhinitis, seasonal, allergy |

**Abstract 8**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 37 | Patient, symptoms, exposure, grain, severe |
| PoS:Verb | 17 | Was, reach, to, define, conclude ,show, induce |
| Medical Words: Gene | 11 | allergen, sensitization, pollen, plateaus |
| Medical Words: Species | 16 | allergic, genetic, combination, studies |

**Abstract 9**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 32 | Natural, RCT, CPT, patient, allergy |
| PoS:Verb | 17 | Can, used, to is, be, suggested, occuring |
| Medical Words: Gene | 9 | Reactive, season, ocular |
| Medical Words: Species | 7 | Allergy, treatment, consensus |

**Abstract 10**

|  |  |  |
| --- | --- | --- |
| Type | Count | Examples |
| PoS: Noun | 39 | Efficacy, therapy, dose, study, parallel |
| PoS:Verb | 20 | Combined, randomized, comparing, grouping |
| Medical Words: Gene | 6 | intranasal, antihistamine, rhinoconjunctivitis |
| Medical Words: Species | 8 | corticosteroid, oral, rescue, dosage |