

Annexure 4- Activation filters reviews resulted 120 published articles.

1: Stearns TP, Shad MU, Guzman GC. Glabellar Botulinum Toxin Injections in Major Depressive Disorder: A Critical Review. *Prim Care Companion CNS Disord*. 2018 Oct 4;20(5). pii: 18r02298. doi: 10.4088/PCC.18r02298. Review. PubMed PMID: 30326186.

2: Chen H, Pan W, Zhang J, Cheng H, Tan Q. The application of W-plasty combined Botox-A injection in treating sunk scar on the face. *Medicine (Baltimore)*. 2018 Jul;97(30):e11427. doi: 10.1097/MD.00000000000011427. PubMed PMID: 30045264; PubMed Central PMCID: PMC6078721.

3: Chegini A. Therapeutic Plasma Exchange in a rare case myasthenic crisis after Botox injection. *Atheroscler Suppl*. 2017 Nov;30:283-285. doi: 10.1016/j.atherosclerosis.2017.05.016. Epub 2017 May 31. PubMed PMID: 29096852.

4: Jones DH, Kerscher M, Geister T, Hast MA, Weissenberger P. Efficacy of IncobotulinumtoxinA for the Treatment of Glabellar Frown Lines in Male Subjects: Post-Hoc Analyses From Randomized, Double-Blind Pivotal Studies. *Dermatol Surg*. 2017 Nov;43 Suppl 2:S235-S241. doi: 10.1097/DSS.0000000000001295. PubMed PMID: 29064991.

5: Wongrattanakamon P, Nimmanpipug P, Sirithunyalug B, Jiranusornkul S. Molecular modeling elucidates the cellular mechanism of synaptotagmin-SNARE inhibition: a novel plausible route to anti-wrinkle activity of botox-like cosmetic active molecules. *Mol Cell Biochem*. 2018 May;442(1-2):97-109. doi: 10.1007/s11010-017-3196-5. Epub 2017 Oct 10. PubMed PMID: 29019108.

6: Le Louarn C. [Botulinum toxin: An important complement for facial rejuvenation surgery]. *Ann Chir Plast Esthet*. 2017 Oct;62(5):495-519. doi: 10.1016/j.anplas.2017.07.007. Epub 2017 Sep 19. French. PubMed PMID: 28935476.

7: Ali YH. Two years' outcome of thread lifting with absorbable barbed PDO threads: Innovative score for objective and subjective assessment. *J Cosmet Laser Ther*. 2018 Feb;20(1):41-49. doi: 10.1080/14764172.2017.1368562. Epub 2017 Dec 4. PubMed PMID: 28863268.

8: Hsu AK, Frankel AS. Modification of Chin Projection and Aesthetics With OnabotulinumtoxinA Injection. *JAMA Facial Plast Surg*. 2017 Dec 1;19(6):522-527. doi: 10.1001/jamafacial.2017.0606. PubMed PMID: 28750118; PubMed Central PMCID: PMC5710479.

- 9: Snider CC, Amalfi AN, Hutchinson LE, Sommer NZ. New Insights into the Anatomy of the Midface Musculature and its Implications on the Nasolabial Fold. *Aesthetic Plast Surg.* 2017 Oct;41(5):1083-1090. doi: 10.1007/s00266-017-0889-9. Epub 2017 May 15. PubMed PMID: 28508263.
- 10: de Almeida ART, Romiti A, Carruthers JDA. The Facial Platysma and Its Underappreciated Role in Lower Face Dynamics and Contour. *Dermatol Surg.* 2017 Aug;43(8):1042-1049. doi: 10.1097/DSS.0000000000001135. PubMed PMID: 28394862.
- 11: Nestor M, Ablon G, Pickett A. Key Parameters for the Use of AbobotulinumtoxinA in Aesthetics: Onset and Duration. *Aesthet Surg J.* 2017 May 1;37(suppl_1):S20-S31. doi: 10.1093/asj/sjw282. Review. PubMed PMID: 28388717; PubMed Central PMCID: PMC5434495.
- 12: Prager W, Nogueira Teixeira D, Leventhal PS. IncobotulinumtoxinA for Aesthetic Indications: A Systematic Review of Prospective Comparative Trials. *Dermatol Surg.* 2017 Jul;43(7):959-966. doi: 10.1097/DSS.0000000000001076. Review. PubMed PMID: 28375973.
- 13: Zhou R, Pan B, Wang C, Wang D. Mandibular Rim Trilogry with Botulinum Toxin Injection: Reduction, Projection, and Lift. *Facial Plast Surg.* 2017 Feb;33(1):102-108. doi: 10.1055/s-0037-1600525. Epub 2017 Feb 22. PubMed PMID: 28226378.
- 14: Anand C. Facial Contouring With Fillers, Neuromodulators, and Lipolysis to Achieve a Natural Look in Patients With Facial Fullness. *J Drugs Dermatol.* 2016 Dec 1;15(12):1536-1542. PubMed PMID: 28095576.
- 15: Wanitphakdeedecha R, Ungaksornpairote C, Kaewkes A, Sathaworawong A, Lektrakul N, Manuskiatti W. The efficacy of two formulations of botulinum toxin type A for masseter reduction: a split-face comparison study. *J Dermatolog Treat.* 2017 Aug;28(5):443-446. doi: 10.1080/09546634.2016.1263382. Epub 2016 Dec 6. PubMed PMID: 27884065.
- 16: Wanitphakdeedecha R, Ungaksornpairote C, Kaewkes A, Rojanavanich V, Phothonng W, Manuskiatti W. The comparison between intradermal injection of abobotulinumtoxinA and normal saline for face-lifting: a split-face randomized controlled trial. *J Cosmet Dermatol.* 2016 Dec;15(4):452-457. doi: 10.1111/jocd.12289. Epub 2016 Sep 19. PubMed PMID: 27647769.
- 17: Berwick S, Humble Á. Older women's negative psychological and physical experiences with injectable cosmetic treatments to the face. *J Women Aging.* 2017

Jan-Feb;29(1):51-62. doi: 10.1080/08952841.2015.1063954. Epub 2016 Aug 11. PubMed PMID: 27715903.

18: Sharova AA. Comparison of different consensuses of BTXA in different countries. *J Cosmet Dermatol*. 2016 Dec;15(4):540-548. doi: 10.1111/jocd.12287. Epub 2016 Oct 3. Review. PubMed PMID: 27699964.

19: Kordestani R, Small KH, Rohrich RJ. Advancements and Refinement in Facial Neuromodulators. *Plast Reconstr Surg*. 2016 Oct;138(4):803-6. doi: 10.1097/PRS.0000000000002569. PubMed PMID: 27673516.

20: Bertossi D, Mortellaro C, Nocini P. New Clinical Analysis and Device for Botox Injections. *J Craniofac Surg*. 2016 Sep;27(6):1554-7. doi: 10.1097/SCS.0000000000002758. PubMed PMID: 27526233.

21: Warren D, Woody M, Vickers J. Facial Blanching After Cosmetic Botulinum Toxin Injection: Case Series. *Skinmed*. 2016 Jun 1;14(3):239-40. eCollection 2016. PubMed PMID: 27502269.

22: Qaqish C. Botulinum Toxin Use in the Upper Face. *Atlas Oral Maxillofac Surg Clin North Am*. 2016 Sep;24(2):95-103. doi: 10.1016/j.cxom.2016.05.006. Review. PubMed PMID: 27499468.

23: Carruthers A, Carruthers J, Fagien S, Lei X, Kolodziejczyk J, Brin MF. Repeated OnabotulinumtoxinA Treatment of Glabellar Lines at Rest Over Three Treatment Cycles. *Dermatol Surg*. 2016 Sep;42(9):1094-101. doi: 10.1097/DSS.0000000000000704. PubMed PMID: 27427996; PubMed Central PMCID: PMC5414762.

24: Russo A, Silvestro M, Tessitore A, Tedeschi G. The "Ram's Horns Sign": A Case Report of an Unusual Side Effect of OnabotulinumtoxinA in a Chronic Migraine Patient. *Headache*. 2016 Nov;56(10):1656-1658. doi: 10.1111/head.12883. Epub 2016 Jul 9. PubMed PMID: 27393616.

25: Lorenc ZP. Statistical Analysis of "A Prospective, Split-Face, Randomized, Double-Blind Study Comparing OnabotulinumtoxinA to IncobotulinumtoxinA for Upper Face Wrinkles". *Plast Reconstr Surg*. 2016 Oct;138(4):759e-60e. doi: 10.1097/PRS.0000000000002572. PubMed PMID: 27307332.

26: Yeilding RH, Fezza JP. Reply: A Prospective, Split-Face, Randomized, Double-Blind Study Comparing OnabotulinumtoxinA to IncobotulinumtoxinA for Upper

Face Wrinkles. *Plast Reconstr Surg*. 2016 Oct;138(4):760e-2e. doi: 10.1097/PRS.0000000000002574. PubMed PMID: 27307326.

27: Mandrini S, Comelli M, Dall'angelo A, Togni R, Cecini M, Pavese C, Dalla Toffola E. Long-term facial improvement after repeated BoNT-A injections and mirror biofeedback exercises for chronic facial synkinesis: a case-series study. *Eur J Phys Rehabil Med*. 2016 Dec;52(6):810-818. Epub 2016 May 10. PubMed PMID: 27164539.

28: Bratbak DF, Nordgård S, Stovner LJ, Linde M, Dodick DW, Aschehoug I, Folvik M, Tronvik E. Pilot study of sphenopalatine injection of onabotulinumtoxinA for the treatment of intractable chronic migraine. *Cephalalgia*. 2017 Apr;37(4):356-364. doi: 10.1177/0333102416648328. Epub 2016 May 6. PubMed PMID: 27154997; PubMed Central PMCID: PMC5394468.

29: Baumeister JC, Papa G, Foroni F. Deeper than skin deep - The effect of botulinum toxin-A on emotion processing. *Toxicon*. 2016 Aug;118:86-90. doi: 10.1016/j.toxicon.2016.04.044. Epub 2016 Apr 26. PubMed PMID: 27130038.

30: Narurkar VA, Cohen JL, Dayan S, Kaminer MS, Rivkin A, Shamban A, Sykes JM, Teller CF, Weinkle SH, Werschler WP, Drinkwater A, Pucci ML, Gallagher CJ. A Comprehensive Approach to Multimodal Facial Aesthetic Treatment: Injection Techniques and Treatment Characteristics From the HARMONY Study. *Dermatol Surg*. 2016 May;42 Suppl 2:S177-91. doi: 10.1097/DSS.0000000000000743. Erratum in: *Dermatol Surg*. 2016 Nov;42(11):1311. PubMed PMID: 27128246.

31: Wilson AJ, Chang B, Taglienti AJ, Chin BC, Chang CS, Folsom N, Percec I. A Quantitative Analysis of OnabotulinumtoxinA, AbobotulinumtoxinA, and IncobotulinumtoxinA: A Randomized, Double-Blind, Prospective Clinical Trial of Comparative Dynamic Strain Reduction. *Plast Reconstr Surg*. 2016 May;137(5):1424-33. doi: 10.1097/PRS.0000000000002076. PubMed PMID: 27119918.

32: Baumann L, Dayan S, Connolly S, Silverberg N, Lei X, Drinkwater A, Gallagher CJ. Duration of Clinical Efficacy of OnabotulinumtoxinA in Crow's Feet Lines: Results from Two Multicenter, Randomized, Controlled Trials. *Dermatol Surg*. 2016 May;42(5):598-607. doi: 10.1097/DSS.0000000000000757. PubMed PMID: 27110893; PubMed Central PMCID: PMC5414775.

33: Boneti C, Anakwenze CP, de la Torre J, Weaver TL, Collawn SS. Two-Year Follow-Up of Autologous Fat Grafting With Laser-Assisted Facelifts. *Ann Plast Surg*. 2016 Jun;76 Suppl 4:S260-3. doi: 10.1097/SAP.0000000000000773. PubMed PMID: 27070682.

- 34: Miller J, Clarkson E. Botulinum Toxin Type A: Review and Its Role in the Dental Office. *Dent Clin North Am.* 2016 Apr;60(2):509-21. doi: 10.1016/j.cden.2015.11.007. Review. PubMed PMID: 27040299.
- 35: Lebares C, Swanstrom LL. Per-Oral Pyloromyotomy (POP): An Emerging Application of Submucosal Tunneling for the Treatment of Refractory Gastroparesis. *Gastrointest Endosc Clin N Am.* 2016 Apr;26(2):257-270. doi: 10.1016/j.giec.2015.12.012. Review. PubMed PMID: 27036896.
- 36: Pinar Y, Govsa F, Ozer MA, Ertam I. Anatomocosmetic implication rules of the corrugator supercilii muscle for youthful eye appearance. *Surg Radiol Anat.* 2016 Nov;38(9):1045-1051. Epub 2016 Mar 28. PubMed PMID: 27021220.
- 37: Hosp C, Naumann MK, Hamm H. Botulinum Toxin Treatment of Autonomic Disorders: Focal Hyperhidrosis and Sialorrhea. *Semin Neurol.* 2016 Feb;36(1):20-8. doi: 10.1055/s-0035-1571214. Epub 2016 Feb 11. Review. PubMed PMID: 26866492.
- 38: Solish N, Rivers JK, Humphrey S, Muhn C, Somogyi C, Lei X, Bhogal M, Caulkins C. Efficacy and Safety of OnabotulinumtoxinA Treatment of Forehead Lines: A Multicenter, Randomized, Dose-Ranging Controlled Trial. *Dermatol Surg.* 2016 Mar;42(3):410-9. doi: 10.1097/DSS.0000000000000626. PubMed PMID: 26863598.
- 39: Chang BL, Wilson AJ, Taglienti AJ, Chang CS, Folsom N, Percec I. Patient Perceived Benefit in Facial Aesthetic Procedures: FACE-Q as a Tool to Study Botulinum Toxin Injection Outcomes. *Aesthet Surg J.* 2016 Jul;36(7):810-20. doi: 10.1093/asj/sjv244. Epub 2016 Jan 17. PubMed PMID: 26780945.
- 40: Humphrey S. Commentary on: Randomized Split-Face Study to Assess the Efficacy and Safety of AbobotulinumtoxinA Versus OnabotulinumtoxinA in the Treatment of Melomental Folds (Depressor Anguli Oris). *Dermatol Surg.* 2015 Nov;41(11):1326-7. doi: 10.1097/DSS.0000000000000462. PubMed PMID: 26509944.
- 41: Kane MA, Gold MH, Coleman WP 3rd, Jones DH, Tanghetti EA, Alster TS, Rohrer TE, Burgess CM, Shamban AT, Finn E. A Randomized, Double-Blind Trial to Investigate the Equivalence of IncobotulinumtoxinA and OnabotulinumtoxinA for Glabellar Frown Lines. *Dermatol Surg.* 2015 Nov;41(11):1310-9. doi: 10.1097/DSS.0000000000000531. PubMed PMID: 26509943.
- 42: Fabi SG, Massaki AN, Guiha I, Goldman MP. Randomized Split-Face Study to Assess the Efficacy and Safety of AbobotulinumtoxinA Versus OnabotulinumtoxinA in the Treatment of Melomental Folds (Depressor Anguli Oris). *Dermatol Surg.* 2015

Nov;41(11):1323-5. doi: 10.1097/DSS.0000000000000501. PubMed PMID: 26506065.

43: Wu WT. Microbotox of the Lower Face and Neck: Evolution of a Personal Technique and Its Clinical Effects. *Plast Reconstr Surg*. 2015 Nov;136(5 Suppl):92S-100S. doi: 10.1097/PRS.0000000000001827. Review. PubMed PMID: 26441119.

44: Wu DC, Fabi SG, Goldman MP. Neurotoxins: Current Concepts in Cosmetic Use on the Face and Neck--Lower Face. *Plast Reconstr Surg*. 2015 Nov;136(5 Suppl):76S-79S. doi: 10.1097/PRS.0000000000001750. Review. PubMed PMID: 26441116.

45: Hsin-Ti L, Wen-Sheng L, Yi-Chia W, Ya-Wei L, Wen ZH, David WH, Su-Shin L. The Effect in Topical Use of Lycogen(TM) via Sonophoresis for Anti-aging on Facial Skin. *Curr Pharm Biotechnol*. 2015;16(12):1063-9. PubMed PMID: 26238679.

46: Rivers JK, Bertucci V, McGillivray W, Muhn C, Rosen N, Solish N, Weichman BM, Wheeler S, Daniels SR, Gallagher CJ. Subject satisfaction with onabotulinumtoxinA treatment of glabellar and lateral canthal lines using a new patient-reported outcome measure. *Dermatol Surg*. 2015 Aug;41(8):950-9. doi: 10.1097/DSS.0000000000000424. PubMed PMID: 26218728.

47: Grimes KL, Inoue H, Onimaru M, Ikeda H, Tansawet A, Bechara R, Tanaka S. Double-scope per oral endoscopic myotomy (POEM): a prospective randomized controlled trial. *Surg Endosc*. 2016 Apr;30(4):1344-51. doi: 10.1007/s00464-015-4396-2. Epub 2015 Jul 15. PubMed PMID: 26173548.

48: Sinno S, Barr J, Wilson S, Smith BD, Tanna N, Saadeh PB. Public Perceptions of Plastic Surgery: Analysis and Implications. *J Craniofac Surg*. 2015 Jun;26(4):1238-41. doi: 10.1097/SCS.0000000000001756. PubMed PMID: 26080165.

49: Carruthers J, Rivkin A, Donofrio L, Bertucci V, Somogyi C, Lei X, Davis PG, Campo A, Beddingfield FC. A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Repeated OnabotulinumtoxinA Treatments in Subjects With Crow's Feet Lines and Glabellar Lines. *Dermatol Surg*. 2015 Jun;41(6):702-11. doi: 10.1097/DSS.0000000000000357. PubMed PMID: 25993609.

50: Carruthers A, Sadick N, Brandt F, Trindade de Almeida AR, Fagien S, Goodman GJ, Raspaldo H, Smith K, Darmody S, Gallagher CJ, Street J, Romagnano L. Evolution of Facial Aesthetic Treatment Over Five or More Years: A Retrospective Cross-sectional Analysis of Continuous OnabotulinumtoxinA Treatment. *Dermatol Surg*. 2015 Jun;41(6):693-701. doi: 10.1097/DSS.0000000000000340. PubMed PMID:

25973559.

51: Erickson BP, Lee WW, Cohen J, Grunebaum LD. The role of neurotoxins in the periorbital and midfacial areas. *Facial Plast Surg Clin North Am.* 2015 May;23(2):243-55. doi: 10.1016/j.fsc.2015.01.010. Review. PubMed PMID: 25921574.

52: Wilson AJ, Chin BC, Hsu VM, Mirzabeigi MN, Percec I. Digital image correlation: a novel dynamic three-dimensional imaging technique for precise quantification of the dynamic rhytid and botulinum toxin type a efficacy. *Plast Reconstr Surg.* 2015 May;135(5):869e-876e. doi: 10.1097/PRS.0000000000001224. PubMed PMID: 25919269.

53: Yeilding RH, Fezza JP. A Prospective, Split-Face, Randomized, Double-Blind Study Comparing OnabotulinumtoxinA to IncobotulinumtoxinA for Upper Face Wrinkles. *Plast Reconstr Surg.* 2015 May;135(5):1328-35. doi: 10.1097/PRS.0000000000001255. PubMed PMID: 25919246.

54: Chundury RV, D'Angelo AS, Couch SM, Holds JB. Subjective and Objective Measures in the Treatment of Hemifacial Spasm With OnabotulinumtoxinA. *Ophthalmic Plast Reconstr Surg.* 2016 Mar-Apr;32(2):133-7. doi: 10.1097/IOP.0000000000000443. PubMed PMID: 25811161.

55: Kim JE, Song EJ, Choi GS, Lew BL, Sim WY, Kang H. The efficacy and safety of liquid-type botulinum toxin type A for the management of moderate to severe glabellar frown lines. *Plast Reconstr Surg.* 2015 Mar;135(3):732-41. doi: 10.1097/PRS.0000000000001032. PubMed PMID: 25719692.

56: Dayan S, Coleman WP 3rd, Dover JS, De Boulle K, Street J, Romagnano L, Daniels S, Kowalski JW, Lei X, Lee E. Effects of OnabotulinumtoxinA treatment for crow's feet lines on patient-reported outcomes. *Dermatol Surg.* 2015 Jan;41 Suppl 1:S67-74. doi: 10.1097/DSS.000000000000146. PubMed PMID: 25548848.

57: Rivkin A, Binder WJ. Long-term effects of onabotulinumtoxinA on facial lines: a 19-year experience of identical twins. *Dermatol Surg.* 2015 Jan;41 Suppl 1:S64-6. doi: 10.1097/DSS.000000000000193. PubMed PMID: 25548847.

58: Muti G, Harrington L. A prospective rater- and subject-blinded study comparing the efficacy of incobotulinumtoxinA and onabotulinumtoxinA to treat crow's feet: a clinical crossover evaluation. *Dermatol Surg.* 2015 Jan;41 Suppl 1:S39-46. doi: 10.1097/DSS.000000000000262. PubMed PMID: 25548844.

59: Trindade de Almeida A, Carruthers J, Cox SE, Goldman MP, Wheeler S, Gallagher CJ. Patient satisfaction and safety with aesthetic onabotulinumtoxinA after at least 5 years: a retrospective cross-sectional analysis of 4,402 glabellar treatments. *Dermatol Surg.* 2015 Jan;41 Suppl 1:S19-28. doi: 10.1097/DSS.0000000000000275. PubMed PMID: 25548841.

60: Moers-Carpi M, Carruthers J, Fagien S, Lupo M, Delmar H, Jones D, Somogyi C, Lee E, Lei X, MacKinnon S, Davis PG, Yalamanchili R, Campo A, Beddingfield FC 3rd. Efficacy and safety of onabotulinumtoxinA for treating crow's feet lines alone or in combination with glabellar lines: a multicenter, randomized, controlled trial. *Dermatol Surg.* 2015 Jan;41(1):102-12. doi: 10.1097/DSS.0000000000000220. PubMed PMID: 25485803.

61: Won CH, Kim HK, Kim BJ, Kang H, Hong JP, Lee SY, Kim CS. Comparative trial of a novel botulinum neurotoxin type A versus onabotulinumtoxinA in the treatment of glabellar lines: a multicenter, randomized, double-blind, active-controlled study. *Int J Dermatol.* 2015 Feb;54(2):227-34. doi: 10.1111/ijd.12627. Epub 2014 Oct 14. PubMed PMID: 25311357.

62: Orenstein SB, Raigani S, Wu YV, Pauli EM, Phillips MS, Ponsky JL, Marks JM. Peroral endoscopic myotomy (POEM) leads to similar results in patients with and without prior endoscopic or surgical therapy. *Surg Endosc.* 2015 May;29(5):1064-70. doi: 10.1007/s00464-014-3782-5. Epub 2014 Sep 24. PubMed PMID: 25249143.

63: Steinsapir KD, Rootman D, Wulc A, Hwang C. Cosmetic Microdroplet Botulinum Toxin A Forehead Lift: A New Treatment Paradigm. *Ophthalmic Plast Reconstr Surg.* 2015 Jul-Aug;31(4):263-8. doi: 10.1097/IOP.0000000000000282. PubMed PMID: 25216199.