

Nagpal N, Bajaj J, Saini G, Kaur L, Sharma K, Arora M. Mucoadhesion: A new polymeric approach. *Bull. Pharm. Res.* 2016;6(3):74-82.

### References (42):

1. Ahuja A, Khar RK, Ali J. Mucoadhesive drug delivery systems. *Drug Dev. Ind. Pharm.* 1997;23(5):489-515.  
<http://www.tandfonline.com/doi/abs/10.3109/03639049709148498>
2. Alexander A, Ajazuddin, Tripathi DK, Verma T, Swarna, Maurya J, Patel S. Mechanism responsible for mucoadhesion of mucoadhesive drug delivery system: A review. *Int. J. Appl. Biol. Pharm. Tech.* 2011;2(1):434-45.  
[http://www.ijabpt.com/pdf/50072-ii-amit%20alexander\[1\].pdf](http://www.ijabpt.com/pdf/50072-ii-amit%20alexander[1].pdf)
3. Alur HH, Pather SI, Mitra AK, Johnston TP. Transmucosal sustained-delivery of chlorpheniramine maleate in rabbits using a novel, natural mucoadhesive gum as an excipient in buccal tablets. *Int. J. Pharm.* 1999;188(1):1-10.  
<https://www.ncbi.nlm.nih.gov/pubmed/10528077>
4. Andrews GP, Laverty TP, Jones DS. Mucoadhesive polymeric platforms for controlled drug delivery. *Eur. J. Pharm. Biopharm.* 2009;71(3):505-18.  
<https://www.ncbi.nlm.nih.gov/pubmed/18984051>
5. Asane GS. Mucoadhesive gastro intestinal drug delivery system: An overview. *Pharmainfo.net.* 2007;5:1-5.
6. Basu B, Garala K, Thimmasetty J. Formulation and evaluation of pimozone buccal mucoadhesive patches. *Int. J. Pharm. Sci. Nanotechnol.* 2010;2(4):739-47.
7. Bhalodia R, Basu B, Garala K, Joshi B, Mehta K. Buccoadhesive drug delivery systems: A review. *Int. J. Pharm. Bio Sci.* 2010;1(2):1-32.  
<http://ijpbs.net/issue-2/30.pdf>
8. Bobade NN, Atram SC, Wankhade VP, Pande SD, Tapar KK. A review on buccal drug delivery system. *Int. J. Pharm. Pharm. Sci. Res.* 2013;3(1):35-40.  
[https://urpjournals.com/tocjnls/24\\_13v3i1\\_6.pdf](https://urpjournals.com/tocjnls/24_13v3i1_6.pdf)
9. Boddupalli BM, Mohammed ZNK, Nath RA, Banji D. Mucoadhesive drug delivery system: An overview. *J. Adv. Pharm. Technol. Res.* 2010;1(4):381-7.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3255397/>
10. Carvalho FC, Bruschi ML, Evangelista RC, Gremião MPD. Mucoadhesive drug delivery systems. *Braz. J. Pharm. Sci.* 2010;46(1):1-17.  
<http://www.scielo.br/pdf/bjps/v46n1/02.pdf>

11. Chowdary KPR, Srinivas L. Mucoadhesive drug delivery systems: A review of current status. *Indian Drugs* 2000;37(9):400-6.  
[https://www.researchgate.net/publication/287482269\\_Mucoadhesive\\_drug\\_delivery\\_systems\\_A\\_review\\_of\\_current\\_status](https://www.researchgate.net/publication/287482269_Mucoadhesive_drug_delivery_systems_A_review_of_current_status)
12. Clark MA, Hirst BH, Jepson MA. Lectin-mediated mucosal delivery of drugs and microparticles. *Adv. Drug Deliv. Rev.* 2000;43(2-3):207-23.  
<https://www.ncbi.nlm.nih.gov/pubmed/10967227>
13. Dharmendra S, Surendra JK, Sujata M, Ashish P, Shweta S. Mucoadhesive drug delivery system: A review. *Int. J. Pharm. Biol. Arch.* 2012;3(6):1287-91.  
<http://www.ijpba.info/ijpba/index.php/ijpba/article/viewFile/887/601>
14. Dutta PK, Dutta J, Tripathi VS. Chitin and chitosan: Chemistry, properties and applications. *J. Sci. Ind. Res.* 2004;63:20-31.  
[http://nopr.niscair.res.in/bitstream/123456789/5397/1/JSIR%2063\(1\)%2020-31.pdf](http://nopr.niscair.res.in/bitstream/123456789/5397/1/JSIR%2063(1)%2020-31.pdf)
15. Efentakis M, Peponaki C. Formulation study and evaluation of matrix and three-layer tablet sustained drug delivery systems based on carbopol with isosorbite mononitrate. *AAPS PharmSciTech* 2008;9(3):917-23.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2977044>
16. Eouani C, Piccerelle Ph, Prinderre P, Bourret E, Joachim J. In-vitro comparative study of buccal mucoadhesive performance of different polymeric films. *Eur. J. Pharm. Biopharm.* 2001;52(1):45-55.  
<http://www.sciencedirect.com/science/article/pii/S0939641101001461>
17. Fan H, Dash AK. Effect of cross-linking on the in vitro release kinetics of doxorubicin from gelatin implants. *Int. J. Pharm.* 2001;213(1-2):103-16.  
<https://www.ncbi.nlm.nih.gov/pubmed/11165098>
18. Fattahi A, Petrini P, Munarin F, Shokoohinia Y, Golozar MA, Varshosaz J, Tanzi MC. Polysaccharides derived from tragacanth as biocompatible polymers and gels. *J. Appl. Poly. Sci.* 2013;129(4):2092-2102.  
<http://onlinelibrary.wiley.com/doi/10.1002/app.38931/abstract>
19. Fikentscher H, Herrle K. Polyvinylpyrrolidone. *Modern plastics* 1945;23:157.
20. Gandhi RE, Robinson JR. Bioadhesion in drug delivery. *Ind. J. Pharm. Sci.* 1988;50(3):145-52.
21. Gibson J, Halliday JA, Ewert K, Robertson S. A controlled release pilocarpine buccal insert in the treatment of Sjogren's syndrome. *Br. Dent. J.* 2007;202(7):E17.  
<https://www.ncbi.nlm.nih.gov/pubmed/17273177>
22. Hogerstrom H, Edsman K, Stromme M. Low-frequency dielectric spectroscopy as a tool for studying the compatibility between pharmaceutical gels and mucous tissue. *J. Pharm. Sci.* 2003;92(9):1869-81.

23. Ishida M, Nambu N, Nagai T. Highly viscous gel ointment containing carbopol for application to the oral mucosa. *Chem. Pharm. Bull. (Tokyo)* 1983;31(12):4561-4.  
<https://www.ncbi.nlm.nih.gov/pubmed/6671259>
24. Khan S, Verma M, Aggarwal G, Kumar SLH. Mucoadhesive drug delivery system: a review. *World J. Pharm. Pharm. Sci.* 2016;5(5):392-405.  
[www.wjpps.com/download/article/1461928511.pdf](http://www.wjpps.com/download/article/1461928511.pdf)
25. Krupashree KG, Parthiban S, Senthil Kumar GP, Tamizmani T. Approaches to mucoadhesive drug delivery system in oral cavity-a detailed review. *Int. J. Res. Pharm. Nano Sci.* 2014;3(4): 257-65.  
<http://www.ijrpns.com/article/APPROACHES%20TO%20MUCOADHESIVE%20DRUG%20DELIVERY%20SYSTEM%20IN%20ORAL%20CAVITY-A%20DETAILED%20REVIEW.pdf>
26. Majithiya RJ, Ghosh PK, Umrethia ML, Murthy RS. Thermoreversible-mucoadhesive gel for nasal delivery of sumatriptan. *AAPS PharmSciTech* 2006;7(3):67.  
<https://www.ncbi.nlm.nih.gov/pubmed/17025248>
27. Morimoto K, Morisaka K, Kamada A. Enhancement of nasal absorption of insulin and calcitonin using polyacrylic acid gel. *J. Pharm. Pharmacol.* 1985;37(2):134-6.  
<https://www.ncbi.nlm.nih.gov/pubmed/2858549>
28. Mythri GKK, Kumar MR, Singh SJ. Novel mucoadhesive polymers - A review. *J. Appl. Pharm. Sci.* 2011;1(8):37-42.  
[http://japsonline.com/admin/php/uploads/209\\_pdf.pdf](http://japsonline.com/admin/php/uploads/209_pdf.pdf)
29. Muthukumar M, Dhachinamoorthi D, Chandra Sekhar KB, Sriram N. A Review on polymers used in mucoadhesive drug delivery system. *Int. J. Pharm Ind. Res.* 2011;1(2): 122-7.  
<http://docplayer.net/32277729-A-review-on-polymers-used-in-mucoadhesive-drug-delivery-system.html>
30. Nielsen LS, Schubert L, Hansen J. Bioadhesive drug delivery system. I. Characterization of mucoadhesive properties of systems based on glyceryl mono-oleate and glycerylmono linoleate. *Eur. J. Pharm. Sci.* 1998;6(3):231-9.  
<https://www.ncbi.nlm.nih.gov/pubmed/9795071>
31. Oza KP, Frank SG. Microcrystalline cellulose stabilized emulsion. *J. Disper Sci. Technol.* 1986;7(5):543-61.
32. Phaechamud T, Ritthidej GC. Formulation variables influencing drug release from layered matrix system comprising chitosan and xanthan gum. *AAPS PharmSciTech* 2008;9(3):870-7.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2977021>
33. Raghavendra Rao NG, Shravani B, Reddy MS. Overview on Buccal Drug Delivery Systems. *J. Pharm. Sci. Res.* 2013;5(4):80-8.  
<http://www.jpsr.pharmainfo.in/Documents/Volumes/vol5issue04/jpsr05041301.pdf>

34. Remuñán-López C, Portero A, Vila-Jato JL, Alonso MJ. Design and evaluation of chitosan/ethylcellulose mucoadhesive bilayered devices for buccal drug delivery. *J. Control. Release* 1998;55(2-3):143-52.  
<https://www.ncbi.nlm.nih.gov/pubmed/9795035>
35. Singh S, Singh S, Bothara SB, Patel R. Pharmaceutical characterization of some natural excipient as potential mucoadhesive agent. *T. Ph. Res.* 2010;4:91-104.  
[https://www.researchgate.net/publication/247158307\\_Pharmaceutical\\_characterization\\_of\\_some\\_natural\\_excipient\\_as\\_potential\\_mucoadhesives\\_agent](https://www.researchgate.net/publication/247158307_Pharmaceutical_characterization_of_some_natural_excipient_as_potential_mucoadhesives_agent)
36. Saraswathi B, Balaji A, Umashankar MS. Polymers in mucoadhesive drug delivery system-latest updates. *Int. J. Pharm. Pharm. Sci.* 2013;5(3):423-30.  
<http://www.ijppsjournal.com/Vol5Suppl3/7359.pdf>
37. Satoh K, Takayama K, Machida Y, Suzuki Y, Nakagaki M, Nagai T. Factors affecting the bioadhesive property of tablets consisting of hydroxypropyl cellulose and carboxyvinyl polymer. *Chem. Pharm. Bull. (Tokyo)* 1989;37(5):1366-8.  
<https://www.ncbi.nlm.nih.gov/pubmed/2630103>
38. Shah D, Gaud RS, Misra AN, Parikh R. Formulation of a water soluble mucoadhesive film of lycopene for treatment of leukoplakia. *Int. J. Pharm. Sci. Rev. Res.* 2010;2(1):6-10.  
<http://www.globalresearchonline.net/journalcontents/volume2issue1/Article%20002.pdf>
39. Suchaoin W, Pereira de Sousa I, Netsomboon K, Rohrer J, Hoffmann Abad P, Laffleur F, Matuszczak B, Bernkop-Schnürch A. Mucoadhesive polymers: Synthesis and in vitro characterization of thiolated poly(vinyl alcohol). *Int. J. Pharm.* 2016;503(1-2):141-9.  
<https://www.ncbi.nlm.nih.gov/pubmed/26965199>
40. Surana AS, Kotecha RK. An overview on various approaches to oral controlled drug delivery system via gastroretention. *Int. J. Pharm. Sci. Rev. Res.* 2010;2(2):68-72.  
<http://www.globalresearchonline.net/journalcontents/volume2issue2/Article%20014.pdf>
41. Tonnesen HH, Karlsen J. Alginate in drug delivery systems. *Drug. Dev. Ind. Pharm.* 2002;28(6):621-30.  
<https://www.ncbi.nlm.nih.gov/pubmed/12149954>
42. Woertz C, Preis M, Breitzkreutz J, Kleinebudde P. Assessment of test methods evaluating mucoadhesive polymers and dosage forms: An overview. *Eur. J. Pharm. Biopharm.* 2013;85(3 Pt B):843-53.  
<https://www.ncbi.nlm.nih.gov/pubmed/23851076>