1. Chaw, Sook Hui, et al. "Anesthesia in anti-N-methyl-d-aspartate receptor encephalitis-is general anesthesia a requisite? A case report." *Revista Brasileira de Anestesiologia*67 (2017): 647-650.
2. Devenyi, Paul, and Mary Wilson. "Barbiturate abuse and addiction and their relationship to alcohol and alcoholism." *Canadian Medical Association Journal* 104.3 (1971): 215.
3. LEE, WOO CHOO. "Comparative depression of several short acting barbiturates and spiro-barbiturates." *The Japanese Journal of Pharmacology* 2.2 (1953): 123-126.
4. Swanson, Edward E., et al. "Pharmacology of Spiro-Barbituric and Spiro-Thiobarbituric Acids." *Anesthesia & Analgesia* 29.2 (1950): 89-96.
5. RAFTERY, STEPHEN, and DECLAN WARDE. "Oxygen saturation during inhalation induction with halothane and isoflurane in children: effect of premedication with rectal thiopentone." *BJA: British Journal of Anaesthesia* 64.2 (1990): 167-169.
6. Martínez-Amorós, Erika, et al. "Propofol and thiopental as anaesthetic agents in electroconvulsive therapy: A retrospective study in major depression." *Revista de Psiquiatría y Salud Mental (English Edition)* 7.1 (2014): 42-47.
7. <https://www.drugbank.ca/drugs/DB00599>
8. <https://www.ncbi.nlm.nih.gov/mesh/68018686>
9. <https://www.ncbi.nlm.nih.gov/mesh/68018757>
10. National Center for Biotechnology Information. "PubChem Annotation Record for Thiopental, Source: Hazardous Substances Data Bank (HSDB)" *PubChem*, https://pubchem.ncbi.nlm.nih.gov/source/hsdb/7791. Accessed 12 June, 2022.
11. National Center for Biotechnology Information. "PubChem Annotation Record for Thiopental, Source: Hazardous Substances Data Bank (HSDB)" *PubChem*, https://pubchem.ncbi.nlm.nih.gov/source/hsdb/7791. Accessed 12 June, 2022.
12. <https://ncithesaurus.nci.nih.gov/ncitbrowser/ConceptReport.jsp?dictionary=NCI_Thesaurus&ns=ncit&code=C66116>
13. <https://www.drugbank.ca/drugs/DB00474>
14. "Methohexital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 31 Mar. 2022. Web. 12 Jun. 2022.
15. "Methohexital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 31 Mar. 2022. Web. 12 Jun. 2022.
16. <https://www.drugbank.ca/drugs/DB01355>
17. <https://www.ebi.ac.uk/chebi/searchId.do?chebiId=CHEBI:5706>
18. "Hexobarbital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 18 May. 2022. Web. 12 Jun. 2022.
19. Gupta, Pawan K. *Fundamentals of toxicology: essential concepts and applications*. Academic Press, 2016.
20. Breimer, D. D., and M. A. C. M. Winten. "Pharmacokinetics and relative bioavailability of cyclobarbital calcium in man after oral administration." *European Journal of Clinical Pharmacology* 9.5 (1976): 443-450.
21. "Cyclobarbital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 5 Feb. 2022. Web. 12 Jun. 2022.
22. National Center for Biotechnology Information. "PubChem Compound Summary for CID 4737, Pentobarbital" *PubChem*, <https://pubchem.ncbi.nlm.nih.gov/compound/Pentobarbital>. Accessed 4 June, 2022.
23. <https://www.drugbank.ca/drugs/DB00312>
24. National Center for Biotechnology Information. "PubChem Annotation Record for Pentobarbital, Source: Hazardous Substances Data Bank (HSDB)" *PubChem*, https://pubchem.ncbi.nlm.nih.gov/source/hsdb/3151. Accessed 12 June, 2022.
25. Johnson AB, Sadiq NM. Pentobarbital. [Updated 2022 Feb 9]. In: StatPearls [Internet].
26. National Center for Biotechnology Information. "PubChem Compound Summary for CID 5193, Secobarbital" *PubChem*, <https://pubchem.ncbi.nlm.nih.gov/compound/Secobarbital>. Accessed 4 June, 2022.
27. <https://pubchem.ncbi.nlm.nih.gov/source/hsdb/3182>
28. "Secobarbital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 2 May. 2022. Web. 12 Jun. 2022.
29. National Center for Biotechnology Information. "PubChem Compound Summary for CID 2164, Amobarbital" *PubChem*, <https://pubchem.ncbi.nlm.nih.gov/compound/Amobarbital>. Accessed 4 June, 2022.
30. <https://www.drugbank.ca/drugs/DB01351>
31. "Amobarbital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 27 Feb. 2022. Web. 12 Jun. 2022.
32. National Center for Biotechnology Information. "PubChem Compound Summary for CID 6473, Butethal" *PubChem*, <https://pubchem.ncbi.nlm.nih.gov/compound/Butethal>. Accessed 4 June, 2022.
33. <https://www.drugbank.ca/drugs/DB01353>
34. Baldeo, W C et al. “A multi-dose study on the human metabolism of amylobarbitone.” *Xenobiotica; the fate of foreign compounds in biological systems* vol. 9,4 (1979): 205-8. doi:10.3109/00498257909038722
35. "Butobarbital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 6 Feb. 2022. Web. 12 Jun. 2022.
36. National Center for Biotechnology Information. "PubChem Compound Summary for CID 4763, Phenobarbital" *PubChem*, <https://pubchem.ncbi.nlm.nih.gov/compound/Phenobarbital>. Accessed 4 June, 2022.
37. <https://www.drugbank.ca/drugs/DB01174>
38. <https://pubchem.ncbi.nlm.nih.gov/source/hsdb/3157>
39. "Phenobarbital." *Wikipedia, The Free Encyclopedia*. Wikipedia, The Free Encyclopedia, 18 Mar. 2022. Web. 12 Jun. 2022.
40. Sokmen, Bahar Bilgin et al. “Antibacterial, antiurease, and antioxidant activities of some arylidene barbiturates.” *Applied biochemistry and biotechnology* vol. 171,8 (2013): 2030-9. doi:10.1007/s12010-013-0486-6
41. Khan, Khalid Mohammed, et al. "Molecular modeling-based antioxidant arylidene barbiturates as urease inhibitors." *Journal of Molecular Graphics and Modelling* 30 (2011): 153-156.
42. Yan, Qin et al. “Inhibitory effects of 5-benzylidene barbiturate derivatives on mushroom tyrosinase and their antibacterial activities.” *European journal of medicinal chemistry* vol. 44,10 (2009): 4235-43. doi:10.1016/j.ejmech.2009.05.023
43. Haldar, Manas K., et al. "Synthesis of barbiturate-based methionine aminopeptidase-1 inhibitors." *Bioorganic & medicinal chemistry letters* 18.7 (2008): 2373-2376.
44. Azoro, C. "Antibacterial activity of crude extract of Azadirachita indica on Salmonella typhi." *World Journal of Biotechnology* 3 (2000): 347-351.
45. Mahmood Qureshi, Ashfaq, et al. "Antimicrobial efficacy of metal-barbiturate conjugates against pathogenic strains of Escherichia coli and Staphylococcus aureus." *Letters in Drug Design & Discovery* 8.10 (2011): 980-987.
46. Berry, C.B.; Gillespie, T.; Hood, J.; Scott, N.B. Growth of microorganisms in solutions of intravenous anaesthetic agents. Anaesthesia, 1993, 48, 30-32.
47. Crowther, J.; Hrazdil, J.; Jolly, D.T.; Galbraith, J.C.; Greacen, M.; Grace, M. Growth of microorganisms in propofol, thiopental, and 1:1 mixture of propofol and thiopental. Anesth. Analg., 1996, 82, 475-478.
48. Idrees, M.; Mussarat, U.; Badshah, Y.; Qamar, R.; Bokhari, H. Virulence factors profile of drug- resistant Escherichia coli isolated from urinary tract infections in Punjab, Pakistan. Eur. J. Clin. Microbiol. Infect. Dis., 2010 (In press)
49. Rathee, P., et al. "Synthesis and application of thiobarbituric acid derivatives as antifungal agents." *Cell. Mol. Biol* 62.141.10 (2016): 4172.
50. Brown, D. J., A. R. Katritzky, and C. W. Rees. "Synthesis of heterocyclic compounds using carbon disulfide and their products." *Comprehensive Heterocyclic Chemistry* 3 (1984): 57.
51. Siddiqui, Nazish. "SINGLE-STEP SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL STUDIES OF NOVEL STEROIDAL 1', 2', 3'-THIADIAZOLES." *Journal of the Chilean Chemical Society* 58.3 (2013): 1934-1936.
52. Al Rasheed, Hessa, et al. "Barbiturate-and Thiobarbituarte-based s-Triazine hydrazone derivatives with promising antiproliferative activities." *ACS omega* 5.26 (2020): 15805-15811.
53. Wang, Jun, et al. "MMP inhibition by barbiturate homodimers." *Bioorganic & medicinal chemistry letters* 23.2 (2013): 444-447.
54. Khan, Khalid Mohammed, et al. "Xanthine oxidase inhibition by 5-aryledene N, N′-dimethylbarbituric acid derivatives." *J Chem Soc Pak* 35 (2013): 495-8.
55. Bai, Fang, et al. "Discovery of novel selective inhibitors for EGFR-T790M/L858R." *Bioorganic & medicinal chemistry letters* 22.3 (2012): 1365-1370.
56. Dhorajiya, Bhaveshkumar D., Bharatkumar Z. Dholakiya, and Nimisha Singh. "Anticancer, Antibacterial, Antifungal Activities for Hybrid Probes of Aromatic Amine and Barbituric Acid." *GSTF Journal of Chemical Sciences (JChem)* 1.2 (2014): 1-8.
57. Isac-García, J., Dobado, J. A., Calvo-Flores, F. G., & Martínez-García, H. (2015). *Experimental organic chemistry: laboratory manual*. Academic Press.
58. Abdel-Megid, M. (2021). Part–I: Utilities of active methylene compounds and heterocycles bearing active methyl or having an active methine in the formation of bioactive heteroarylpyrimidines and pyrimidopyrimidines. *Synthetic Communications*, *51*(2), 191-214.
59. <https://www.unodc.org/unodc/en/data-and-analysis/bulletin/bulletin_1957-01-01_1_page004.html>
60. Fox, J. J., & Shugar, D. (1952). Absorption spectra and structure of barbituric acid derivatives as a function of pH. *Bulletin des Sociétés Chimiques Belges*, *61*(1‐2), 44-63.
61. WOLFF, C. J., "Die Identifizierung der Barbitale ", *Acta Pharm. Intern., 2,*107 (1951)
62. Laties, V. G., & Weiss, B. (1958). A critical review of the efficacy of meprobamate (Miltown, Equanil) in the treatment of anxiety. *Journal of Chronic Diseases*, *7*(6), 500-519.
63. Conrad, M., & Guthzeit, M. (1882). Ueber Barbitursäurederivate. *Berichte der deutschen chemischen Gesellschaft*, *15*(2), 2844-2850.
64. Kidwai, Mazaahir, Ruby Thakur, and Richa Mohan. "Ecofriendly synthesis of novel antifungal (thio) barbituric acid derivatives." *Acta Chim. Slov* 52 (2005): 88-92.
65. T. S. Li, A. X. Li, J. Chem. Soc., Perkin Trans. 1 1998, 1913–1915
66. M. Kidwai, R. Venkataramanan, B. Dave, Green Chemistry 2001, 3, 278–279. (b) M. Kidwai, S. Rastogi, R. Venkataramanan, Bull. Chem. Soc. Jpn. 2003, 76, 203–204. (c) M. Kidwai, A. D. Mishra, J. Serb. Chem. Soc. 2004, 69, 247–254.
67. Montmorillonite K-10: K-Catalyst, 69866 Fluker, Surface; 200 ± 20 m2 /g.
68. Bram, Georges, et al. "Alkylation of potassium acetate in “dry media” thermal activation in commercial microwave ovens." *Tetrahedron* 46.15 (1990): 5167-5176.
69. Smith, Keith. *Solid supports and catalysts in organic synthesis*. Ellis Horwood, 1992.
70. Mohammadi Ziarani, Ghodsi et al. “Green Synthesis and Urease Inhibitory Activity of Spiro-Pyrimidinethiones/Spiro-Pyrimidinones-Barbituric Acid Derivatives.” *Iranian journal of pharmaceutical research : IJPR* vol. 14,4 (2015): 1105-14.
71. Alvim, Haline GO, et al. "Combined role of the asymmetric counteranion-directed catalysis (acdc) and ionic liquid effect for the enantioselective biginelli multicomponent reaction." *The Journal of organic chemistry* 83.19 (2018): 12143-12153.
72. Domínguez, María J., et al. "Design, synthesis, and biological evaluation of phosphoramide derivatives as urease inhibitors." *Journal of Agricultural and Food Chemistry* 56.10 (2008): 3721-3731.
73. Bondle, Giribala M., and Sandeep T. Atkore. "Synthesis and Biological Evaluation of Some Newly Synthesized Barbiturates and Their Derivatives by Using Task Specific Ionic Liquid [Bmim] OH." *Orbital: The Electronic Journal of Chemistry* (2019): 142-150.
74. M Bondle, Giribala, et al. "Synthesis of Hexahydro-Sym-Triazines Using PEG-400 as Superior Solvent." *Letters in Organic Chemistry* 14.1 (2017): 18-23.
75. Bauer, A. W. "Antibiotic susceptibility testing by a standardized single disc method." *Am J clin pathol* 45 (1966): 149-158.
76. Figueiredo, Joana, et al. "Trisubstituted barbiturates and thiobarbiturates: Synthesis and biological evaluation as xanthine oxidase inhibitors, antioxidants, antibacterial and anti-proliferative agents." *European journal of medicinal chemistry* 143 (2018): 829-842.
77. Zhao, Hong-Wu, et al. "Diastereoselective synthesis of dispirobarbiturates through et3n-catalyzed [3+ 2] cycloaddition of barbiturate-based olefins with 3-isothiocyanato oxindoles." *The Journal of Organic Chemistry* 80.20 (2015): 10380-10385.
78. Šmelcerović, Andrija, et al. "Xanthine oxidase inhibitors beyond allopurinol and febuxostat; an overview and selection of potential leads based on in silico calculated physico-chemical properties, predicted pharmacokinetics and toxicity." *European journal of medicinal chemistry* 135 (2017): 491-516.
79. Zhao, Mouming, et al. "In vitro and in vivo studies on adlay-derived seed extracts: phenolic profiles, antioxidant activities, serum uric acid suppression, and xanthine oxidase inhibitory effects." *Journal of agricultural and food chemistry* 62.31 (2014): 7771-7778.
80. Tacconelli, Evelina, et al. "Discovery, research, and development of new antibiotics: the WHO priority list of antibiotic-resistant bacteria and tuberculosis." *The Lancet Infectious Diseases* 18.3 (2018): 318-327.
81. Longone, Patrizia, et al. "Neurosteroids as neuromodulators in the treatment of anxiety disorders." *Frontiers in Endocrinology* 2 (2011): 55.
82. Dong, Erbo, et al. "Brain 5α-dihydroprogesterone and allopregnanolone synthesis in a mouse model of protracted social isolation." *Proceedings of the National Academy of Sciences* 98.5 (2001): 2849-2854.
83. Coppen, Alec. "The biochemistry of affective disorders." *The British Journal of Psychiatry* 113.504 (1967): 1237-1264.
84. Uzunov, D. P., et al. "Fluoxetine-elicited changes in brain neurosteroid content measured by negative ion mass fragmentography." *Proceedings of the National Academy of Sciences* 93.22 (1996): 12599-12604.
85. Grams, Frank, et al. "Pyrimidine-2, 4, 6-Triones: a new effective and selective class of matrix metalloproteinase inhibitors." (2001): 1277-1285.
86. Breyholz, Hans-Jörg, et al. "C-5-disubstituted barbiturates as potential molecular probes for noninvasive matrix metalloproteinase imaging." *Journal of medicinal chemistry* 48.9 (2005): 3400-3409.
87. Mondal, Subha, et al. "Matrix metalloproteinase-9 (MMP-9) and its inhibitors in cancer: A minireview." *European journal of medicinal chemistry* 194 (2020): 112260.
88. Deighton, Jordana Chanel. "Physician Assisted Dying (PAD): An Investigation into the Mechanistic Action of Opioid, Benzodiazepine, and Barbiturate Administration as an Alternative Measure to Forgoing Life Sustaining Treatment and Aggressive Palliation." (2022).