



Analgesic Effect of ketamine Gel on Human and Lab Animals

By Amer A. Taqa

LAP Lambert Academic Publishing Jan 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - The aim of the present study was extract pure ketamine powder from ketamine hydrochloride solution; ketamine gel in different concentrations was prepared to detect the therapeutic effectiveness of it as analgesic in the form of a topical application in both human and laboratory animals. The results demonstrated that the purified ketamine was pure according to IR, UV, CHN analysis and melting point. Ketamine gel also is safe to be used topically and not irritant according to the skin irritation test, because the mean value of skin irritation index (SII) for erythema and edema was found to be zero after applied of ketamine gel in different concentrations. A significant analgesic effect of ketamine gel in humans was induced by the test formulation containing 0.5% ketamine gel and the percentages of non, mild, moderate and severe pain were (46.4, 32.1, 17.9 and 3.6)%, respectively. It was concluded from this study that a pure ketamine powder can be prepared and could be of value when used as gel through topical application in relieving pain. 92 pp. Englisch.



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