

14718 COMPETITIVE PROBLEMS IN THE DRUG INDUSTRY

using human volunteers conducted by a group of researchers at the Vanderbilt Medical School. In the first experiment, four healthy males between the ages of 25 and 33, who had no previous history of amphetamine psychoses or schizophrenia, and were described by the investigators as having "warm, boyish personality traits" were administered hourly doses of 10 mg dextro-amphetamine, unless some significant or potentially dangerous physiological changes were noted. Two of the patients were able to tolerate "relatively large" amounts of amphetamine for 24 hours, at which point they both developed severe psychoses. The other two patients were given amphetamine at a much slower rate, because they showed either slight hypertension or fever very early in the experiment. Since their dosages were low and infrequent, they were both able to withstand the psychosis-producing effects of amphetamine for five days. However, after 170 hours these two subjects also began to exhibit "unequivocal" and "florid" psychotic symptoms, whose onset was "abrupt" and which included "paranoid ideation which was fairly well organized." Soon afterwards the same group of investigators repeated almost exactly the same clinical experiment, observing the reactions of six male volunteers, aged 25 to 27, who had been judged by an independent psychiatrist to be of normal intelligence and normal (non-schizoid and non-paranoid) personality. Furthermore none showed any signs of brain damage or mental abnormalities as judged by clinical examinations, clinical tests, and psychological examinations. The same procedure was followed as in the earlier experiment, except that doses ranged from 5 to 10 mg per hour. Because two subjects had experienced a previous amphetamine psychosis, extra precautions were taken, and they were each limited to a total of 110 mg per day. One of these two subjects was the only one of the six who did not develop a severe amphetamine psychosis. The total cumulative doses for the other five ranged from 120 mg (one day)