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Hypnosis is the most effective way of giving up smoking, according to the largest ever scientific comparison of ways of breaking the habit. Willpower, it turns out, counts for very little.

Smokers are coming under increasing pressure to quit.

Earlier this month the Institute of Actuaries published the results of a study it commissioned which showed that the mortality rate for smokers is twice as high as for non-smokers, and that on average, a smoker dies 6 years earlier than a non-smoker. Surveys suggest that three in four smokers would like to give up, according to the anti-smoking campaign Action on Smoking and Health (ASH).

To find the most effective way to give up smoking, Frank Schmidt and research student Chockalingam Viswesvaran of the University of Iowa carried out a meta-analysis, statistically combining the results of more than 600 studies covering almost 72 000 people from North America, Scandinavia and elsewhere in Europe.

By combining the results from so many separate studies, the meta-analysis enables the real effectiveness of each technique to be picked out from the statistical 'noise' that often blights studies involving smaller numbers of subjects.

The results, published in the current issue of the *Journal of Applied Psychology*, show that the average success rate for all methods was 25 per cent: that is, only about two in five smokers is likely to succeed using methods covered by the study. Patients told that they had serious cardiac disorders, and so a clear incentive to stop immediately, had the highest quitting rate, at 36 per cent. But for most smokers the most effective technique was hypnosis, in which smokers visited a Hypnotherapist & listened to suggestive tapes. The analysis of treatment by hypnosis, which included 48 studies covering over 6000 smokers, gave an average success rate of 80 per cent for this method.

'Combination' techniques, combining, for example, exercise and breathing therapy came second with a success rate of 29 per cent. Smoke aversion, in which smokers have their own warm, stale cigarette smoke blown back into their faces, achieved a 25 per cent success rate, followed by acupuncture at 24 per cent.

The least successful method turned out to be advice from GPs, which appears to convince virtually no one to give up. Sheer willpower proved little better, with a success rate of only 6 per cent. Self-help, in the form of books or mail-order advice, achieved modest success - around 9 per cent, while nicotine gum was a little better at 10 per cent.

'We found that involvement of physicians did not have as big an impact as we expected,' said Schmidt 'We speculate that the reason is that it is the content of the treatment that matters, and not the status of the person giving it.' David Pollock, director of ASH, said he was surprised by the success of hypnosis, which anecdotal evidence had suggested was not very effective. One organization not surprised by the results is the British Society of Medical & Dental Hypnosis. Christopher Pattinson, the society's academic chairman, said that current hypnosis techniques are a far cry from their popular image of music-hall tricks involving swinging fob watches. The latest relaxation techniques achieve success rates of up to 80 per cent from a single session, he said.

Richard Doll, the epidemiologist who carried out the pioneering studies of the risk of smoking, said that the apparent success of hypnosis and the high quitting rate of patients with heart disease backed his own observations. He added, however, that he was somewhat surprised by the low success rate of those who resorted to willpower alone: 'The majority of people find it too difficult to give up,' he said. 'The only way to succeed is to want to do it enough.'