When used after the combined procedure, the child typically initiated walking, independently, immediately after she was restrained for crawling. When restraint alone was in effect, therefore, walking was primed, albeit by the child herself. Thus, after both restraint and priming are used in combination, restraint-alone appears sufficient.

When training was discontinued, some permanent improvement was noted for all four children. For the two children with only moderate impairment of walking, crawling remained at a level normal for children of that age. For the two children with severe impairment of walking, a degree of crawling returned that was unacceptable, even though substantially lower than before training. That the improvement was not sufficient for them suggests that the greater the degree of walking impairment, the more time need be devoted to training. Restraint was, therefore, reintroduced and the children walked rather than crawled. Even though restraint was discontinued after a few months, the children were walking almost exclusively 1.5 yr after training.

## REFERENCES

- Ayllon, T. and Azrin, N. H. Reinforcer sampling: a technique for increasing the behavior of mental patients. Journal of Applied Behavior Analysis, 1968, 1, 21-34.
- Azrin, N. H. and Holz, W. C. Punishment. In W. K. Honig, (Ed.), Operant behavior: areas of research and application. New York: Appleton-Century-Crofts, 1966. Pp. 380-448.
- Azrin, N. H. and Powell, J. A method of improving self-administration of prescribed drugs by response priming. Journal of Applied Behavior Analysis, 1969, 2, 39-43.

- Bensberg, Gerald J. Helping the retarded grow and learn. In G. Bensberg (Ed.), Teaching the mentally retarded, Atlanta, Georgia: Southern Regional Education Board, 1965, Pp. 19.39.
- Berkson, G. Psychophysiological studies in mental deficiency. In Norman R. Ellis (Ed.), Handbook of mental deficiency, New York: McGraw Hill, 1963. Pp. 556-573.
- Catania, A. C. Concurrent operants. In W. K. Honig (Ed.), Operant behavior: areas of research and application. New York: Appleton-Century-Crofts, 1966. Pp. 213-271.
- Harris, F. R., Johnston, M. K., Kelley, C. S., and Wolf, M. Effects of positive social reinforcement on regressed crawling of a nursery school child. Journal of Educational Psychology, 1964, 55, 35-11.
- Herman, R. L. and Azrin, N. H. Punishment by noise in an alternative response situation. Journal of the Experimental Analysis of Behavior. 1964, 7, 207-209.
- Holz, W. C., Azrin, N. H., and Ayllon, T. Elimination of behavior of mental patients by response-produced extinction. Journal of the Experimental Analysis of Behavior, 1963, 6, 407-412.
- Loynd, J. and Barclay, A. A case study in developing ambulation in a profoundly retarded child. Behavior Research and Therapy, 1970, 8, 207.
- Malpass, L. F. Motor skills in mental deficiency. In Norman R. Ellis (Ed.), Handbook of mental deficiency. New York: McGraw Hill, 1963. Pp.
- Meyerson, L., Kerr, N., and Michael, J. L. Behavior modification in rehabilitation. In S. W. Bijou and D. M. Baer (Eds.), Child development: readings in experimental analysis. New York: Appleton-Century-Crofts, 1967. Pp. 214-239.
- O'Brien, F., Azrin, N.H., and Henson, K. Increased communication of chronic mental patients by reinforcement and by response priming. Journal of Applied Behavior Analysis, 1969, 2, 23-31.
- O'Brien, F., Bugle, C., and Azrin, N. H. Training and maintaining a retarded child's proper eating. Journal of Applied Behavior Analysis, 1972, 5, 67-2.

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