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JOURNAL ARTICLE

# A "miniacrosome" sperm defect causing infertility in two brothers

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A sperm defect causing infertility in two brothers is described. The malformation, named the "miniacrosome sperm defect," occurs in the total sperm population. It involves both the nuclei, which have a roundish apex, and the acrosomes, which are small, located in an apical position on the top of the nucleus, and sometimes ring-shaped. The midpiece and tail segments are normal, and the sperm are perfectly motile but fail to fertilize zona-free hamster ova in vitro. In spermatids, the absence of a microtubular manchette and reduction of the Golgi complex are evident.

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B. Baccetti, S. Capitani, G. Collodel, G.D. Cairano, L. Gambera, E. Moretti, and P. Piomboni

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Hum. Reprod., July 1, 2001; 16(7): 1365 - 1371.

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K.-S. Kim, M. C. Cha, and G. L. Gerton

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Biol Reprod, January 1, 2001; 64(1): 36 - 43.

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K.-S. Kim, J. A. Foster, and G. L. Gerton

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Biol Reprod, January 1, 2001; 64(1): 148 - 156.

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and R. Hermes

Acephalic spermatozoa and abnormal development of the head-neck  
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