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Let k be a hyperbolic knot in S^3 . Suppose that the manifold obtained by r -Dehn surgery on k , r an integer, contains a separating incompressible torus T . Let t be the hitting number of T , that is, the minimal number of intersections between T and the core of the attached solid torus. If $t = 2$, then it is possible to give a general description of all knots with such a surgery. The first examples of knots with a toroidal surgery with $t = 4$ were given by M. Eudave-Muñoz; more examples have been given recently by M. Teragaito. Both sets of examples were given via tangles and double branched covers. In this talk we give an explicit construction of hyperbolic knots with a toroidal surgery of hitting number 4, and give a general description of many knots with that kind of surgery. (Received April 13, 2010)