

1990

1989-1991

The [Guglielmi Detachable Coil](#) is a block of platinum [coil](#) commonly used in intracranial non-invasive surgery for the occlusion of [intracranial aneurysms](#). It was invented by Italian interventional neuroradiologist Dr. Guido Guglielmi in [1990](#) and was gradually introduced in the later 1990s as an alternative to surgical clipping, which requires invasive surgery. In September [1995](#), the Guglielmi Detachable Coil (GDC) system received formal approval from the Food and Drug Administration (FDA) for the treatment of surgically high-risk intracranial aneurysms

In 1990, Macdonald et al. defined the criteria for evaluating response to treatment and disease progression. They suggested that variations in the tumor-enhancing area, neurological function, and steroid dosage should be considered in the assessment of tumor response ¹⁾. Although these criteria have since been the cornerstone in response evaluation in many [phase II](#) clinical trials, some doubts have been expressed regarding the evaluation of disease progression in patients treated with TMZ concomitant with radiotherapy.

In [1990](#), [Parviz Kambin](#) described a triangular safe zone bordered by the exiting root anteriorly, the traversing root medially, and the superior endplate of the lower lumbar vertebra inferiorly ²⁾. The anatomical description of this safe zone allowed the field of endoscopic spine surgery to outgrow the technique of percutaneous [nucleotomy](#), which was limited by the use of small needlelike instruments. [Kambin's triangle](#) was a working corridor that allowed larger instruments and working channels to be introduced in even closer proximity to foraminal pathology without injuring the exiting nerve.

¹⁾

Macdonald DR, Cascino TL, Schold SC Jr, Cairncross JG. Response criteria for phase II studies of [supratentorial malignant glioma](#). J Clin Oncol. 1990 Jul;8(7):1277-80. PubMed PMID: 2358840.

²⁾

Kambin P: Arthroscopic Microdiscectomy: Minimal Intervention Spinal Surgery Baltimore, MD, Urban & Schwarzenberg, 1990

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