

Supplementary Table 1: Brief details of various gynecological applicators

Era	Applicator name	Loading type		Application type	Clinical usage	Design
		Manual	Remote			
1900-1952	Wickham applicator	Yes	No	IC	Cervix, endometrium	T-R
	Stockholm applicator	Yes	No	IC	Cervix, endometrium	T-B
	Paris applicator	Yes	No	IC	Cervix, endometrium	T-O
	Manchester applicator	Yes	Yes*	IC	Cervix, endometrium	T-O
1953-2004	Fletcher	Yes	Yes*	IC	Cervix, endometrium	T-O with shield
	Fletcher-Suit	Yes	Yes*	IC	Cervix, endometrium	T-O with shield
	Fletcher Suit delclos	Yes	Yes*	IC	Cervix, endometrium	T-O with shield
	Henschke applicator	No	Yes	IC	Cervix, endometrium	T-O
	Tandem-ring applicator	No	Yes	IC	Cervix, endometrium	T-R
	Mold applicator	No	Yes	IC	Cervix, endometrium, vagina	T-M
	Amersham applicator	No	Yes	IC	Cervix, endometrium	T-O
	MUPIT	No	Yes	IC + IS	Cervix, endometrium, vagina, distal parametrium	T-C + TE with needle
	Syed-Neblett applicator	No	Yes	IC + IS	Cervix, endometrium, vagina, distal parametrium	T-C + TE with needle
	Fletcher-shielded applicator	No	Yes	IC	Cervix, endometrium	T-O + S
	2005 onwards (hybrid applicators)	Vienna applicator	No	Yes	IC + IS	Cervix, endometrium
Vienna II applicator		No	Yes	IC + IS	Cervix, endometrium, distal parametrium	T-R + oblique needles
Utrecht applicator		No	Yes	IC + IS	Cervix, endometrium	T-O + needle
Split ring applicator		No	Yes	IC + IS	Cervix, endometrium	T-R + needle
MAC applicator		No	Yes	IC + IS	Cervix, endometrium, vagina, distal parametrium	T-C + TE with needle
Venezia applicator		No	Yes	IC + IS	Cervix, endometrium, vagina, distal parametrium	T-R + TE with needle
Geneva applicator		No	Yes	IC + IS	Cervix, endometrium, distal parametrium	T-O + TE with needle
Tulip applicator		No	Yes	IC + IS	Cervix, endometrium, distal parametrium	T + 3D print TE with needle

*Indicate modern design of applicator. IC: Intracavitary, IS: Interstitial, T-O: Tandem and ovoid, T-B: Tandem and box, T-R: Tandem and ring, T-M: Tandem and mold, T-C: Tandem and cylinder, TE: Template for needle insertion, T-O+S: Tandem and shielded ovoid, MUPIT: Martinez Universal Perineal Interstitial Template