

OPTION	Sperm Banking (Masturbation)	Sperm Banking (Alternative Collection Methods)	Radiation Shielding of Gonads	Testicular Tissue Freezing	Testicular Sperm Extraction	Donor Sperm	Adoption
MEDICAL STATUS	Standard	Experimental	Standard	Experimental	Standard	Standard	Standard
DEFINITION	Sperm is obtained through masturbation, then frozen	Sperm obtained through testicular extraction or electroejaculation under sedation	Use of shielding to reduce the dose of radiation delivered to the testes	Tissue obtained through biopsy and frozen for future use	Use of biopsy to obtain individual sperm from testicular tissue	Sperm donated by a man for artificial insemination or IVF	Process that creates a legal parent-child relationship
PUBERTAL STATUS	After puberty	After puberty	Before and after puberty	Before and after puberty	After puberty	After puberty	After puberty
TIME REQUIREMENT	Outpatient procedure	Outpatient procedures	In conjunction with radiation treatments	Outpatient procedure	Outpatient procedure	Readily available for purchase	Varies depending on the type of adoption
SUCCESS RATES	Generally high The most established technique for men	If sperm is obtained, similar to standard sperm banking	Possible with select radiation fields and anatomy	No available human success rates	30-70% in post-pubescent patients	50-80%	N/A
COST	Approx. \$1,500 for 3 samples; storage fees average \$500/year	Varies greatly based on collection method	Generally included in the cost of radiation treatments	\$500-\$2,500 for surgery; \$300-\$1,000 for freezing; \$500/year for storage	\$4,000-\$16,000 (in addition to costs for IVF)	\$200-\$500 per vial (in addition to costs for IUI or IVF)	\$2,500-\$35,000
TIMING	Before treatment	Before treatment	During treatment	Before treatment	Before or after treatment	After treatment	After treatment
SPECIAL CONSIDERATIONS	Deposits can be made every 24 hours	Can be considered if male cannot ejaculate	Expertise required; does not protect against effects of chemotherapy	May be only option for pre-pubescent boys	Center should be able to freeze sperm found at time of biopsy	Can choose donor based on wide range of characteristics	Medical history often a factor