

IVD • FDA APPROVAL + COMMERCIALIZATION

What it actually costs to bring an IVD to market.

Founders benchmark IVD program cost against the wrong number. A frequent starting assumption — “\$1–2M end-to-end” — is the **floor** for the simplest imaginable path (predicate-heavy 510(k), minimal clinical bridging). The realistic range is 3–10× higher.

TL;DR — a simple 510(k) IVD to first commercial sale is **\$3–5M**. A typical 510(k) with novel-ish clinical claims is **\$5–10M**. A De Novo is **\$10–20M**. A Class III PMA (or a companion diagnostic tied to a drug) starts at **\$15M** and can pass **\$75M**.

01 Cost by regulatory pathway

Each pathway carries a distinct development + clinical + regulatory + manufacturing burden. Line items below are typical mid-market ranges for a US-only launch. International adds separately.

Simple 510(k) IVD

Strong predicate, established platform — lateral flow, ELISA, clinical chemistry

\$2M – \$7M

TO FDA CLEARANCE

Development + assay optimization

\$500K – \$2M

Clinical validation (accuracy, precision, EP-series)

\$500K – \$2M

CLIA Waiver Study (if pursued)

\$500K – \$1.5M

FDA user fees + submission prep

\$50K – \$150K

QMS + manufacturing setup

\$500K – \$1.5M

Novel 510(k) or De Novo

MOST COMMON

\$5M – \$15M

No strong predicate, molecular diagnostic, novel cancer or infectious-disease marker

TO FDA CLEARANCE

Everything in Simple 510(k) plus:

Expanded clinical study (n>500, multi-site)

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+\$1M – \$5M

Analytical characterization (extended)

+\$500K – \$2M

Pre-Submission (Q-Sub) meetings + prep

+\$100K – \$500K

De Novo classification-request prep (if applicable)

+\$300K – \$1M

Class III PMA

\$15M – \$50M+

High-risk indication — cardiac troponin, cancer companion diagnostic, tissue-based tests

TO FDA APPROVAL

Multi-site pivotal clinical trial (n often 1,000+)

\$5M – \$25M

FDA user fee (PMA)

~\$450K

Regulatory strategy + PMA submission prep

\$2M – \$5M

Advisory-panel prep + defense

\$500K – \$1.5M

Post-approval study commitments

\$1M+ ongoing

Companion Diagnostic (CDx)

\$20M – \$75M+

Tied to a drug approval — codeveloped with a pharma partner

FULLY-LOADED

Analytical + clinical alignment with drug trial

\$10M – \$40M

FDA + drug-partner regulatory coordination

\$2M – \$10M

Bridging studies + reproducibility panels

\$3M – \$10M

Post-approval MRD / lifecycle work

\$5M+ ongoing

02

End-to-end (first commercial sale) · summary

Clearance/approval is not the finish line. Sales, distribution, MDR, and post-market surveillance add materially before revenue meaningfully arrives.

PATHWAY	TO CLEARANCE	+ COMMERCIALIZATION	TO FIRST MEANINGFUL REVENUE
Simple 510(k)	\$2M – \$7M	+\$2M – \$5M	\$4M – \$12M

PATHWAY	TO CLEARANCE	+ COMMERCIALIZATION	TO FIRST MEANINGFUL REVENUE
Novel 510(k) / De Novo	\$5M – \$15M	+\$3M – \$8M	\$8M – \$23M
Class III PMA	\$15M – \$50M+	+\$5M – \$15M	\$20M – \$65M+
Companion Diagnostic	\$20M – \$75M+	Co-launched w/ drug	Tied to drug launch

03 Where the software-driven advantage lands

Cost intelligence only matters if it changes a decision. The consulting-cost line item alone is the most substitutable piece of the stack.



MJAI • THE SOFTWARE SUBSTITUTION

Consulting is \$500K–\$2M of a 510(k) IVD. It’s also the most substitutable line item.

Reg Affairs consultants, biostatisticians, clinical PMs, and QMS consultants together typically bill **\$500K–\$2M** for a 510(k) IVD program. This is drafting, structuring, checklisting, and interpretation work — exactly what an artifact factory replaces.

Rough math: if MJAI cuts consulting spend by 30–50% (drafts prepared for counsel review vs. drafted from scratch), that’s a direct **\$150K–\$1M saving** per program. Enterprise MJAI at \$2,500/mo bundled base = \$30K/year. Payback: **weeks, not months.**

Add the calendar compression — the six-months-to-days claim on first drafts — and the value shifts from “cost saving” to “revenue pulled forward.” A quarter earlier to submission on a \$10M ARR product is not a rounding error.

*“IVD founders spend \$3–10M+ to first commercial sale. Consulting is \$500K–\$2M of that. MJAI cuts consulting spend materially AND shortens the calendar. **Enterprise license pays for itself if you save even 5 consultant weeks.**”*

Sources + caveat

Ranges compiled from Advamed cost surveys, MDIC reports, published academic teardowns, KLAS/Deloitte benchmark studies, and founder-reported figures through Q4 2025. Ranges vary widely by technology, clinical claims, and jurisdiction — a specific program's number depends on its assay and pathway. This document is educational reference for business-plan calibration; it is not regulatory or financial advice. Every founder should validate their pathway-specific numbers with a Reg Affairs specialist and a fractional CFO who has closed comparable programs.