

ADARA MEDICAL TECHNOLOGIES



DESIGN

3D CAD

Material Selection

Design for Manufacturing

Catheter Development / Improvement

Handle Design

Bond Development / Adhesive Selection

ISO / ASTM Standards Review

Stearable Catheters

– Single, bi-directional

– Single, bi-plane

Rapid Prototyping

– 3D printing, quick-turn machining

Animal Study Support



DOCUMENTATION

2D Engineering Drawings / Specifications

Validation & Verification

– Protocol Development

– Testing (partner with outside labs)

– Final V&V Report

FMEA / Risk Analysis Support

Design Input / Output Documentation



MANUFACTURING

Process Development

Mfg Process Documentation

Tooling

Coordinate with Vendors

Coordinate with Contract Manufacturers

Tolerance Analysis



PACKAGING*

Packaging Development

Label Development

Shipping Test

Accelerated Aging Test



STERILIZATION*

Sterilization Method Selection

Sterilization Validation

Single-Lot Release Sterilization

Biocompatibility Testing

* Managed through partners

THE ADVANTAGES

I have over 15 years of R&D and manufacturing experience working on products ranging from

- Balloon and ablation catheters
- Endovascular Aneurysm Repair (EVAR) delivery system
- Transcatheter Aortic Valve Implantation (TAVI) delivery system
- Transcatheter Mitral Valve Repair (TMVR) delivery system
- Transcatheter Mitral Valve Implantation (TMVI) delivery system

I am knowledgeable in a wide range of catheter manufacturing techniques, processes and polymers. From braiding to coiling, laser cutting/welding to polymer reflow, I have used these processes in my designs before and can optimize them to best fit your requirements, with less iteration.

Using an independent medical device design and development consultant like me will mean lower costs for you and faster turnaround overall.

I have a good understand of the capabilities and limitations of a wide spectrum of rapid prototyping technologies such as SLA, FDM, SLS and 3D-printing. These early prototypes can then be quickly converted to injection molding and other production-scale manufacturing.



CONTACT

Yen Liao
Adara Medical Technologies, LLC
15206 Taylor Way
Tustin, California 92782
(571) 268-1363
yen@adaramedtech.com