Digital Medicine Innovation Cycle Checklist

Partial Date: _____ Solution Name: Not Done Completed Overall Regulatory IML Clinical **Business** Technology Description Insights into Needs screening & Unmet need statement unmet medical selection Regulatory State-of-the-Art Summary 1. Need needs and Disease state Familiarization Existing solutions available characterization characterization solutions Idea screening and Workflow Scenario Competitive landscape Medical device selection Potential solution determination Envisioned Value Updated need statement to unmet need System and module Proposition Comparables 2. Idea Envisioned benefit described. requirement specification identified Key stakeholders identified evaluated, and statement Interface mock-upsl selected Feedback from 5+ Reimbursement Institutional IP disclosure familiarization clinical stakeholders Preliminary system & Preliminary Feedback from clinical Competing solutions software architecture regulatory stakeholders in 5+ characterization classification and Key component settinas Key module PoC prototypes Preliminary value pathway 3. Proof of concepts Updated need proposition Demonstration results validated in Concept Preliminary statement and (PoC) models and value Path-to-Payment plan Updated institutional IP indications for use workflow scenario proposition tested disclosure Stakeholder map Preliminary risk and Target outcomes Key in-sourcing requirements hazard analysis Business protection model Product Requirement Document Draft essential Feedback from 5+ Feedback from clinical (PRD economic buyers requirements checklist stakeholders in 20+ Feasibility of Software & hardware architecture settings Preliminary business Draft product claims whole solution model Updated need statement "Works Like" prototypes Draft instructions for demonstrated in and Use Case scenario/ 4. Proof of Development plan use Essential experiment results models and in workflow Feasibility feedback from Key relationships Institutional approval Risk mitigation & interoperability (PoF) Updated target stakeholders identified request(s) plan outcomes Business advisory board Cyber security plan Provisional IP filing & initial FTO review Submission pathway Secure Access to Core IP defined Key in-sourcing plans

5. Proof of Value (POV)	The potential of the solution to work and create value for stakeholders is demonstrated	Feedback from 100+ users Feedback from 5+ KOLs Medical advisory board Clinical pilot	Incorporation & Founder's agreement Key management team committed Investor ready business plan Feedback from 10+	Essential requirements checklist Application to regulatory authority submitted Clinical Investigation approval(s)	"Works Like, Looks Like" prototypes Essential technical experiments results Interoperability validation IP search report Key in-sourcing requirements
		Clinical trial endpoints	economic buyers Initial seed investment Key relationships formalized	Protected Health Information (ePHI) plans GDPR/HIPAA	committed cGMP compliant pilot medical software & production enviroment(s)
6. Initial Clinical Trials	Regulated production of prototypes and collection of clinical and economic data	Endpoints achieved in Feasibility clinical trials Demo feedback from 20+ users Peer reviewed publication(s) submitted	Value quantification Feedback from 20+ economic buyers 1st Institutional Investment	GDPR/HIPAA compliance Security and vulnerability certifications Data requirements confirmation Pre-submission sent	Updated specification & experimental validation All in-sourcing requirements achieved Full IP application
7. Validtion of Solution (VoS)	The solution is shown to be effective and its value to all stakeholders is validated	Endpoints achieved in pivotal clinical trials Peer reviewed publication(s) accepted	Purchasing intent from 10+ buyers Second round of institutional investment	Submission of technical file to regulatory body	Quality assured process validation (cGMP) Updated specification & experimental validation
8. Approval & Launch (A&L)	Institutional and regulatory approval received and sales launch	Training materials & Support established Specialty medical groups review in place	Initial sales Regionalization plans	Registration and listing CMS/Public Coverage and CPT/DRG code determination	Finalized cGMP production environment Regionalization requirements
9. Clinical Use (Use)	The solution is used successfully in day-to-day clinical practice	Included in local practice guidelines Peer reviewed publications	Profitable sales New markets launched	Monitoring/ inspections	Regionalization implemented Improvement plan
10. Standard of Care (SoC)	The solution is recognized as the standard of care	Recommended practice by medical specialty	Dominant market share Health economics study	Product Obsolescence Plan	Component Obsolescence Plan