

Pediatric Congenital Heart Disease (CHD)  
Sector Deep Dive & Market Landscape Mapping  
Prepared for: Daniel Gottlieb, Broadview Ventures

Osprey Intel LLC



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## Study Overview

- **Topic:** Pediatric Congenital Heart Disease
- **Scenario:** VC or large multinational considering opportunities to develop (or fund) technologies to treat CHD in pediatric patients
- **Analysis:** Landscape of various types of CHD in pediatrics (different diseases, # patients), current standard of care for each type of CHD, technologies in development to treat each type of disease

## Analytical Structure for Sector Deep Dives and Market Landscape Mapping

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### EACH SECTOR ANALYSIS FOLLOWS A STANDARDIZED, INSIGHT-ORIENTED APPROACH:

#### 1. Market Sizing & Forecasts

- Define TAM/SAM/SOM: TAM = global pediatric CHD incidence & lifetime interventions; SAM = device-treatable cases in US/EU/Israel; SOM = subsegments (e.g., valves, occluders, stents, shunts, monitoring)
- Growth & Pricing: 5–10 yr CAGR by device class (e.g., surgical vs. transcatheter), pediatric ASPs vs. adult adaptations; regional penetration vs. specialist center density.
- Triangulation: Cross-source market sizing using BCC Research, IBISWorld, Technavio with epidemiology baselines (CDC/WHO/NIH).

#### 2. Technology & IP Landscape

- Breakthroughs: Growth-accommodating valves/conduits, bioresorbable stents/patches, tissue-engineered grafts, miniaturized catheter systems, patient-specific 3D tools.
- R&D clusters: Leading pediatric cardiac innovation hubs and consortia; diffusion via publication networks.
- Sources: ScienceDirect, Scopus, Web of Science; patent scan (USPTO/EPO/WIPO) to assess novelty/FTO.

#### 3. Competitive Landscape

- Segment 10–20 companies into direct pediatric players, adult-to-pediatric adapters, and emerging startups (incl. remote monitoring).
- Comparatives: 2×2s (Innovation vs. Clinical Validation; Growth-Accommodation vs. Re-intervention Burden), feature matrices, and top-10 SWOTs.



- Sources: PitchBook, Orbis, PrivCo, D&B Hoovers, verified against FDA PMA/HDE/510(k) and CE status.

#### 4. Investor & Deal Activity

- Investor map: Active VCs/strategics in pediatric & structural heart; stage focus, check sizes, co-investor proximity.
- Deal benchmarks: Recent rounds, valuation ranges, exit multiples and timelines tied to evidence milestones.
- Sources: PitchBook, Preqin, Refinitiv, WSJ Pro VC/PE.

#### 5. Regulatory & Policy Context

- US: FDA HDE/HUD, PMA/510(k) pathways; Pediatric Device Consortia; payer-relevant endpoints.
- EU/Israel: MDR pediatric provisions, CE processes, registries/ethics frameworks affecting trial design and access.
- Sources: EIU Viewpoint, World Factbook, IMF IFS for country context and capacity.

#### 6. Strategic Positioning & White Space

- Gaps: Growth-capable implants to reduce re-operations; miniaturized transcatheter solutions for smaller infants; longitudinal remote monitoring tailored to CHD pathways.
- Broadview angles: Lead/co-lead where re-intervention burden is high and evidence plans align with reimbursement; syndicate with cardio-device specialists.
- Sources: McKinsey Quarterly, HBR, ImpactAlpha + analyst synthesis to frame value-creation theses.



## Data Source Matrix

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### PEDIATRIC CONGENITAL HEART DISEASE (CHD)

#### 1. Market Sizing & Forecasts

- BCC Research; IBISWorld; Technavio; MarketLine Advantage (supplement with CDC/WHO/NIH for epidemiology)
- **Notes:** Build TAM/SAM/SOM from incidence × intervention rates × device ASPs; split by device class (surgical vs. transcatheter) and region (US/EU/Israel); triangulate across market reports per Osprey method

#### 2. Technology/Patent Landscape

- Sources: ScienceDirect; Scopus; Web of Science; **PubMed**; **ClinicalTrials.gov**; USPTO/EPO/WIPO.
- Notes: Track breakthroughs (growth-accommodating valves, bioresorbables, tissue-engineered grafts, miniaturized cath systems); map innovation vectors and active trials; assess novelty and FTOs.

#### 3. Company Financials / Business Models

- Sources: SEC.gov, PitchBook; Orbis; PrivCo; S&P Capital IQ; D&B Hoovers
- Notes: Indication fit, regulatory stage, revenue model, runway/M&A history

#### 4. VC & PE Investment Trends

- Sources: PitchBook, Preqin, WSJ Pro VC/PE
- Notes: Map active investors in pediatric/structural heart, track round sizes/valuations and syndicates; extract exit analogs to calibrate device value-creation timelines.

#### 5. Regulatory & Pediatric Pathways

- Sources: FDA (PMA/510(k)/HDE databases), EMA/EUDAMED; Pediatric Device Consortia; EIU Viewpoint; World Factbook; IMF IFS
- Notes: Document pediatric routes (HDE/HUD), MDR pediatric provisions, labeling requirements, and reimbursement context

#### 6. News, PR & Thought Leadership

- Sources: FT.com, WSJ.com, McKinsey Quarterly, Bloomberg.com, Factiva
- Notes: Review trial readouts, regulatory shifts, and strategic moves; harvest quotes/data points for exec summaries and “why now” framing



## Methods and Next Steps

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### DATA STRATEGY OVERVIEW:

- To ensure robust and defensible market sizing, we triangulate estimates using IBISWorld, Technavio, and BCC Research, all of which are fully supported within the Osprey data ecosystem.
  - For technical and patent trend analysis in both desalination and biomaterials, ScienceDirect and Web of Science provide comprehensive access to peer-reviewed research and citation networks.
  - When benchmarking exit multiples and evaluating potential investment outcomes, PitchBook and Preqin offer the most reliable and granular data on private market transactions.
  - For tracking regulatory shifts and sustainability-oriented capital flows, EIU Viewpoint, the Financial Times, and WSJ Pro VC/PE deliver highly relevant policy and investor intelligence.
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### PRELIMINARY FORMAT OPTIONS & PROPOSAL FOR DELIVERABLE ALIGNMENT

Proposal: For this engagement, we recommend starting with a blended format for the Pediatric Congenital Heart Disease (CHD) Sector Deep Dive & Market Landscape Mapping, then revisiting the other two case potential projects ( Vulnerable Plaque in Coronary Arteries and Robotic Technologies to Address Ischemic Stroke ) based on Broadview Ventures' preferences in structure, tone, and decision utility.

#### **Deliverables:**

##### **1. Executive Brief (2–3 pages)**

- Content: Opportunity Landscape of various types of CHD in pediatrics (different diseases, # patients), current standard of care for each type of CHD, technologies in development to treat each type of disease

##### **2. Core Deck (15–25 pages)**

- Content: Osprey Sector Deep Dive & Market Landscape Mapping standard report (Market sizing, competitive map, investor/exit benchmarks, platform-fit commentary)