

Portable MRI Research Report @ RayPlus

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Overview: What have we done?

- **Database** Construction (Academic Papers + Competitive Products)
- **Research Report** on the Technological Development of PMRI
- **Interview** with a Research Team from University of Minnesota



1. Database

55

Research Papers

5

Competitive Products

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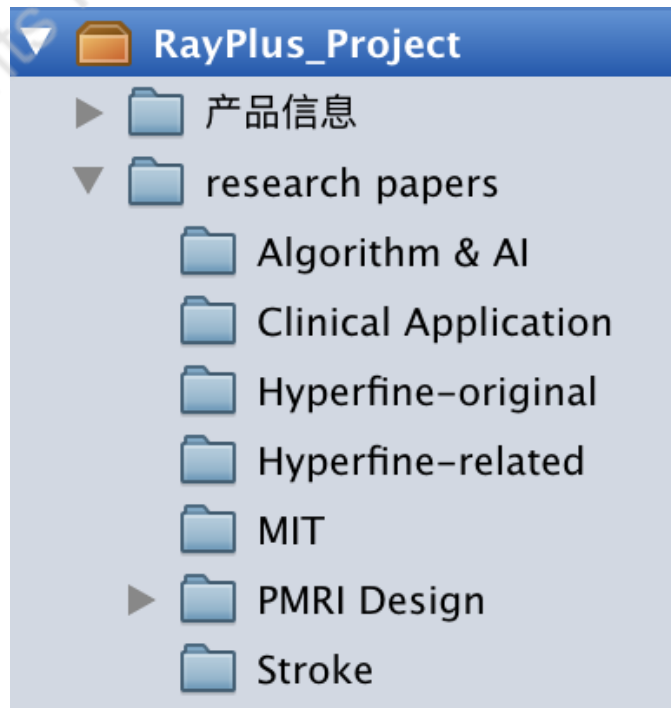
1. Database - Research Paper

Total:

- 55 research paper (with summary + labels)

Main Category:

- Hyperfine
- Technical development:
(Algorithm/Magnet Design/Shielding)
- Clinical application



1. Database - Competing Products

Company	Content
Hyperfine	<ul style="list-style-type: none">● Introduction of the Company● Features and Parameters of the products.● Advantages & Disadvantages● Current Clinical Application Status● Future Development● Related Websites & Research Paper
Promaxo	
Embrace	
Synaptive Medical	
Siemens Healthineers	

2. Research Report

Catalogue:

- Current Technology of PRMI
- Clinical Report of PRMI
- Current PRMI Products and its Application
- Analysis of Future Technical Development
- Portable Process of Relevant Technology
- Appendix

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附录一：Hyperfine 部分销售情况

附录二：Hyperfine 专利



2. Research Report

Catalogue:

- **Current Technology** of PRMI
 - Magnet and Coil Design
 - Magnet design: material, design algorithm, structure
 - Shim magnet theory
 - Gradient coil design
 - Algorithm and AI
 - Deep learning image reconstruction and optimization
 - Deep learning image analysis
 - Shielding Technology
- **Clinical Report** of PRMI
 - Hyperfine
 - Non-Hyperfine
 - Interview
- **Current PRMI Products** and its Application
 - Competing Products



2. Research Report

Catalogue:

- Analysis of **Future Technical Development**
 - AI
 - Magnet Design
- Portable Process of **Relevant Technology**
 - Portable CT
 - Portable Ultrasound
- **Appendix**
 - Portion of Sales Condition of PMRI
 - Hyperfine Patent

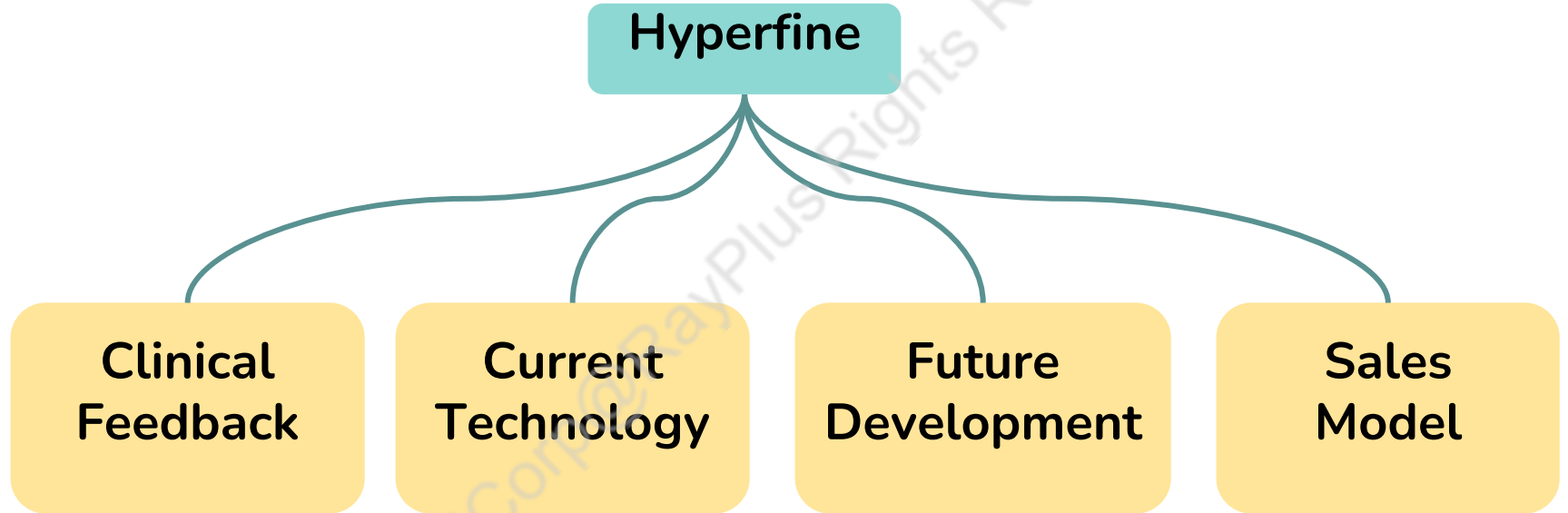
3. Interview

- **Subject:** Hyperfine and Portable PRI
- **Time:** May 4th
- **Platform:** Zoom
- **Duration:** 45min
- **Interviewee:** Mr. Efraín Torres

PhD Candidate at University of Minnesota;
MRI developer on one portable MRI project;
Monitor Hyperfine very closely;



3. Interview





3. Interview

- **Clinical Feedback**
 - The place that Hyperfine's products apply
 - Convenience
 - User Interface (UI) and User Experience (UX)
 - Customer Feedback
 - Diagnostic value of images
- **Future Development**
 - Personal ideas
 - Technological development
- **Current Technology**
 - Image processing and analysis
 - Shielding technology
- **Sales Model**
 - Price
 - Profit model

Thank you!

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