

# Rynm

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Berkeley Method Innovation: Final Presentation



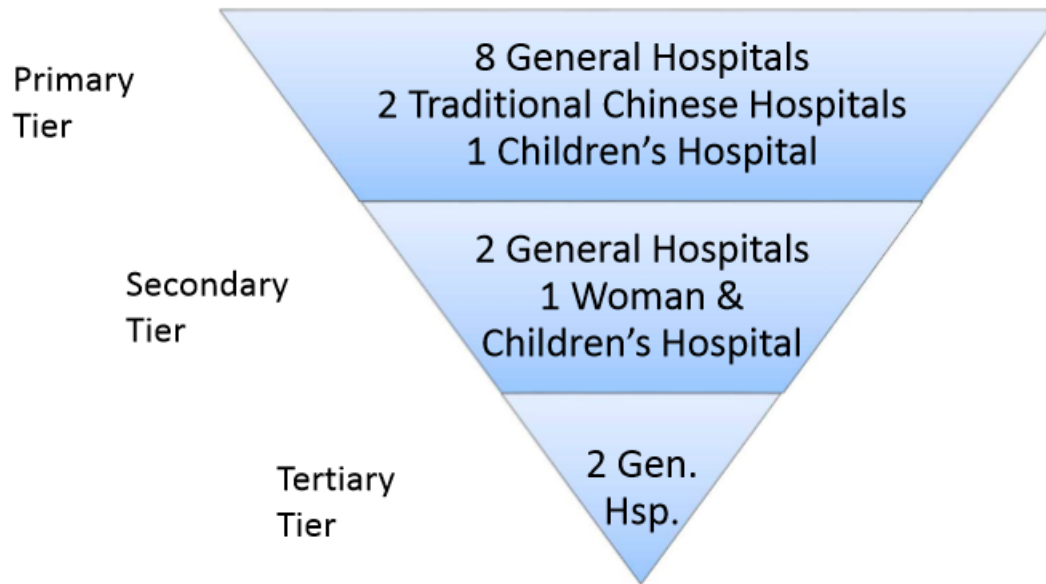
Rynm (rynm.com) is building a data-centered disease management tool to help patients in developing countries like China



Overview-User Study- Testing- Other Developments

# User Study (Settings)

Patients, Family Members, Doctors, Administrators from 16 hospitals



Overview-User Study- Testing- Other Developments

# User Study (Trust)

- Primary Tier vs Other Tier Hospitals
- Trust level of the physicians
- Friends' recommendations
- Medical decisions



Overview-User Study- Testing- Other Developments

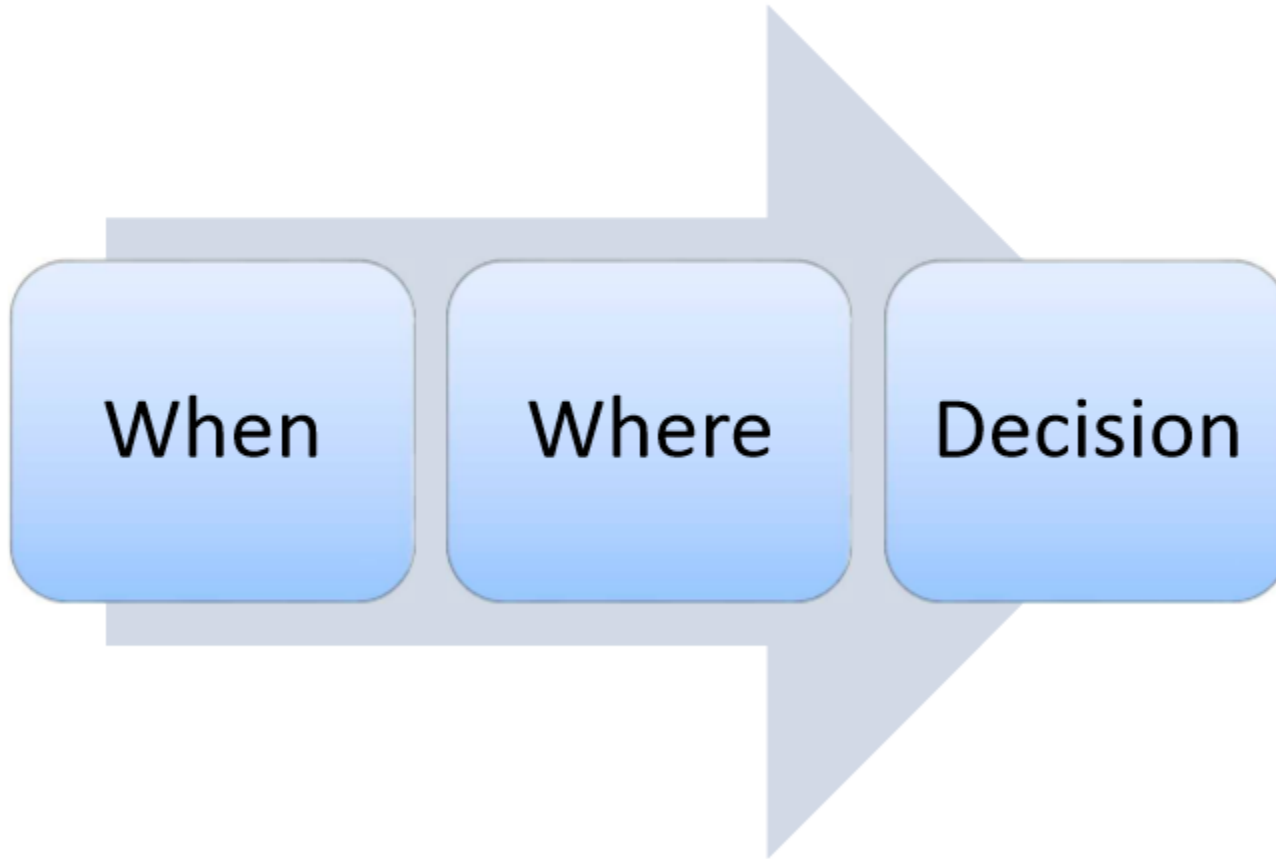
# User Study (Skepticism)

- Interest Alignment
- Commission/Performance Bonus from Prescription
- Physicians' skills



Overview-User Study- Testing- Other Developments

# User Study (Flows)



Overview-User Study- Testing- Other Developments

# User Study (Data)

- Personal Medical History
- Redundant Diagnoses
- Cursive handwritten reports
- Data platform



[Overview](#)-[User Study](#)- [Testing](#)- [Other Developments](#)



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# Lessons



Overview-User Study- Testing- Other Developments

**Berkeley**  
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# Rynm Progress

- Developed drug-drug interaction checker (basic)
- Translated and developed US and Chinese medical guideline checkers (hypertension, diabetes, AF, etc.)



Overview-User Study- Testing- Other Developments

# Testing & Validation

- Case 1: Developmental Dysplasia of the Hip
- Case 2: Atrial Fibrillation
- Case 3: Hypertension + Atherosclerosis



Overview-User Study- Testing- Other Developments

# Testing & Validation (DDH)

- 4-month old pediatric patient diagnosed with Developmental Dysplasia of the Hip (DDH)
- Failure of initial treatment (Pavlik Harness)
- 2 doctors gave diverging opinions for the next step
- Guideline and concerns
- Our role in helping patients seek out 3<sup>rd</sup> opinion



Overview-User Study- Testing- Other Developments

# Testing & Validation (A-fib 1)

- 55-year old patient with previous ischemic strokes diagnosed with Atrial Fibrillation in a hospital visit
- Guidelines call for chronic anticoagulation (Grade 1A)
- The patient was told to take 100mg aspirin instead
- We identified the error and advised patient to seek 2<sup>nd</sup> opinion on anticoagulation such as the NOACs



Overview-User Study- Testing- Other Developments



Overview-User Study- Testing- Other Developments

# Testing & Validation (A-fib 2)

- Patient met with leading A-fib expert and was also advised to take NOACs given the stroke risk vs. bleeding risk
- We are proud in preventing a major error that could have caused debilitating strokes while we gained patient trust along with clinical data
- Lack of up-to-date info without board certification



Overview-User Study- Testing- Other Developments

# Testing & Validation (HBP)

- Hypertension patient was recently diagnosed with atherosclerosis and was prescribed 1 statin drug in addition to 3 current blood pressure medications
- Drug-drug Interaction check found potential for serious interactions (Simvastatin+Nifedipine)
- We passed the message to the patient. The patient plans to bring up the topic to the physician at the next visit



Overview-User Study- Testing- Other Developments



# Lessons



Overview-User Study- Testing- Other Developments



# Other Developments

- Recruited a new member to our technical team who will work full-time on the Android version
- Met with investors who are connecting us with Shanghai Jinqiao government for collaboration and funding opportunities
- We plan to do further prototyping and testing in less-developed cities/rural areas of China



Overview-User Study- Testing- Other Developments

# Team

## Shang Song



## Adam Xu





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