

# START-UPS SHOWCASE



Dr Zaid Al-fagih  
Co-Founder & CEO  
**Rhazes AI**



**Using AI to supercharge doctors' productivity, eliminate  
medical error and make medicine human again**

[www.rhazes.ai](http://www.rhazes.ai)

## MACRO-PROBLEM 1: DIAGNOSTIC ERRORS



**1 in 10 patient deaths** can be attributed to a diagnostic error



In the US alone, **~\$364bn dollars a year is wasted** on inefficiencies and malpractice claims related to them

## MACRO-PROBLEM 2: EXCESSIVE PAPERWORK, DONE BADLY

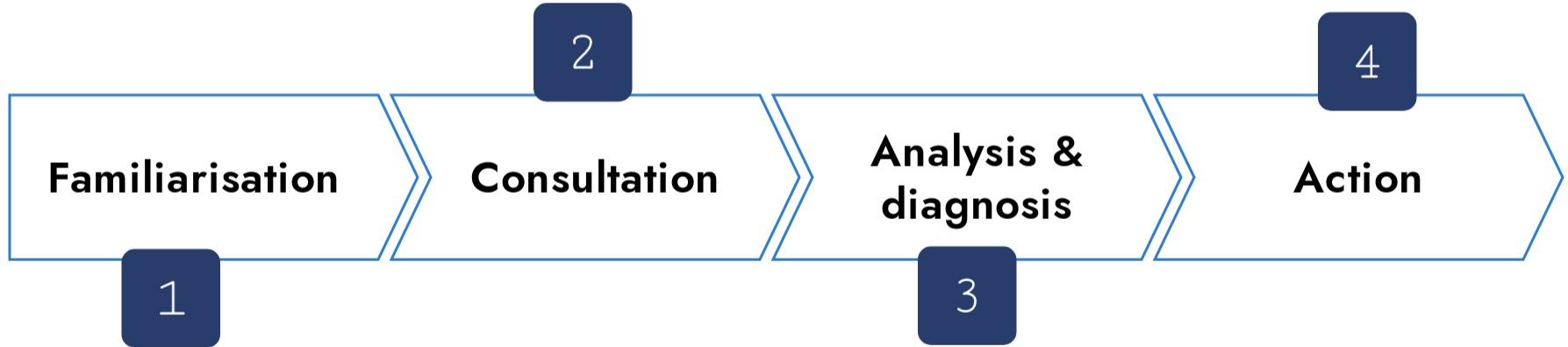


For **every hour a doctor spends with you, they spend two hours doing paperwork.** This is getting worse.



90% of US hospitals that used clinical documentation improvement solutions **earned at least \$1.5 million more**

# WHERE THESE PROBLEMS OCCUR



# A "HAIR-ON-FIRE" PROBLEM

Doctors admitting - or caring for - in-patients in hospitals have the most difficult task:

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- The most complex cases
  - The largest amount of data to analyse per patient
  - The stakes are higher
  - They have the toughest time and resource constraints
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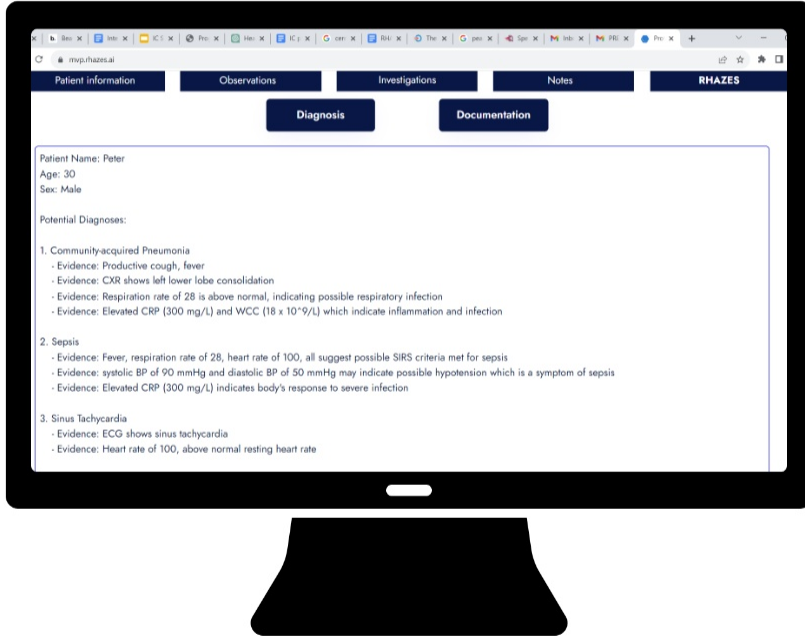
# THE SOLUTION: RHAZES

Uses fine-tuned LLMs to  
alleviate the cognitive and  
admin load on doctors

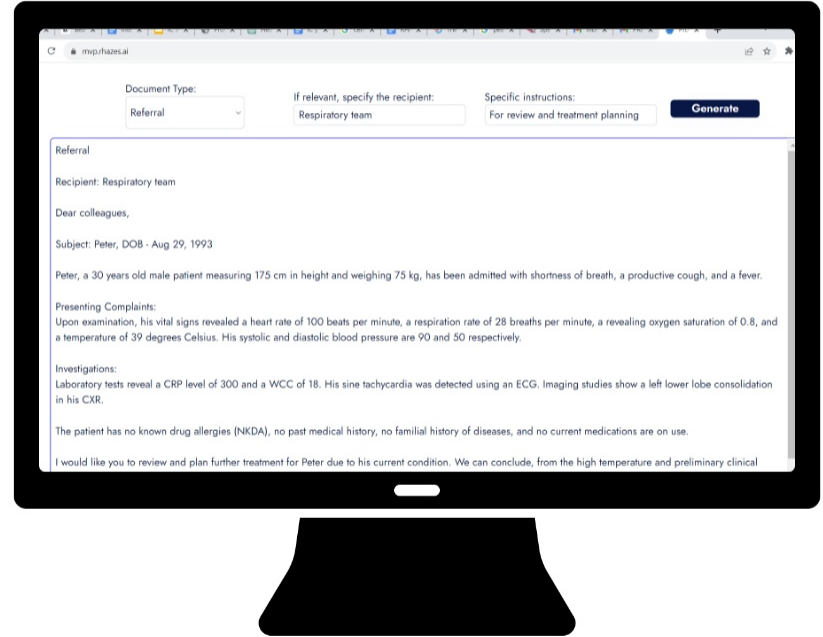
## HOW IT WORKS:

- 1 Rhazes integrates into electronic patient records and analyses patient data in real-time
- 2 It suggests diagnoses and generates the evidence points for these diagnoses as clinical notes - **a validated, instant specialist-level second opinion**
- 3 All the common documentation for actions taken after the patient interaction can be automatically generated and edited - **a 30-minute+ process done in seconds**

# THE SOLUTION: RHAZES



1. Diagnosis



2. Document Generation

# THE VALUE



**Enhanced quality of  
care**



**Improved  
productivity and  
efficiency**



**Cost savings and  
revenue generation**



**Reintroducing the  
human touch**



# WHY NOW?

1. EPR'S MEAN **NOTES ARE NOW ON COMPUTERS.** THE DEVELOPMENT OF LLM'S MEANS THEY **ARE NOW INTERPRETABLE BY MACHINES**
2. MOST MAJOR COUNTRIES HAVE **A MEDICAL STAFFING CRISIS** HIGHLIGHTING THE NEED TO INCREASE DOCTORS' PRODUCTIVITY

# THE MARKET

INITIAL TARGET CUSTOMER SEGMENT:

**ACUTE  
HOSPITALS**

NUMBER OF ACUTE  
HOSPITALS IN THE US AND  
UK

**7240**

**Bottom-up** market sizing for ONLY the **initial target market segment of acute hospitals only in the** US and UK alone:

**\$7.24 BILLION\***

\* Assuming an average annual revenue per customer of \$1m

Healthcare macro-market size in UK  
and US alone

**\$4.6  
TRILLION**

# REVENUE MODEL AND DISTRIBUTION STRATEGY

## REVENUE MODEL

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- **One off set-up fees**
- **Annual subscription**

## HOW WE'LL REACH OUR CUSTOMERS

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- **Strategic Partnerships**
- **Marketing Initiatives**
- **Direct Sales**
- **Leverage Investor Networks**

# FOUNDERS



**CEO: Dr Zaid Al-fagih MBBS MPP  
BSc**

A medical doctor who has worked in challenging healthcare environments, including warzones. He is also a previous health tech founder and has worked in cross-disciplinary research on applying technology to solve problems in healthcare. He also holds an MPP from the University of Oxford and a BSc in management from Imperial College Business School



**CTO: Peter Sarvari MSc, MSc, MEng**

Former quant at J.P. Morgan & BNP Paribas with years of bioinformatics research experience at Imperial College, USC & MIT. He has 3 Masters degrees in Bioengineering, Statistics and Computational Biology and has developed deep-learning models for epigenetics, protein engineering and Atopic Dermatitis treatment

# PROGRESS

## TEAM:

- **Recruited several high-impact advisors** including senior health figures, health entrepreneurs and distinguished academics & clinicians
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## STRATEGIC PARTNERSHIPS:

- Secured **research partnership with Kingston University**
- The **NHS innovation service** has placed us on the path to **deployment within the NHS**

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## PRODUCT:

- We have begun the process of **regulatory approval**
- We have secured access to **400,000 patient electronic patient record data**
- Authored a **paper presented at the International Conference on AI in Medicine 2023 in Singapore**

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## CREDITS & INVESTMENTS:

- **\$20,000 OpenAI credits**
- **\$350,000 Google Cloud credits**



# WE'RE MAKING MEDICINE HUMAN AGAIN

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To get involved, contact us: [contact@rhazes.ai](mailto:contact@rhazes.ai)