MEDLEY Clinical Decision Report

Case tmp_8q0zdhp: Medical Case from tmp_8q0zdhp.txt

Case Overview

Presentation:	A 28-year-old male of Mediterranean descent presents with: - Recurrent episodes of fever lasting 1-3 days - Severe abdominal pain during episodes - Chest pain
	with breathing difficulties - Joint pain affecting knees and ankles - Family history: Father and paternal uncle have similar symptoms - Ep

Diagnostic Landscape

PRIMARY DIAGNOSIS	Understanding The Challenge**	20% Agreement	
Minority Opinion Understanding The Challenge		By Gemma 2 9B, Gemma 2 9B	
Minority Opinion	Structured Vs. Unstructured	By Gemma 2 9B	

Management Strategies

Critical Decision Points

- Low consensus indicates complex presentation consider specialist consultation
- ■■ Multiple minority diagnoses suggest atypical presentation
- ■■ Geographic variation in diagnoses consider regional disease patterns

	Models: 8	Responded: 5	Unique Diagnoses: 4	Consensus: None
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Model Diversity & Bias Analysis

Model Response Patterns

Model	Origin	Release	Primary Diagnosis	Confidence
Mistral 7B	France	2023-09	Unknown	Varied
Gemma 2 9B	USA	2024-06	Understanding the Challenge	Varied
Llama 3.2 3B	USA	2024-09	Unknown	Varied
Qwen 2.5 32B	China	2024-11	Unknown	Varied
DeepSeek V3	China	2024-03	Unknown	Varied

Identified Bias Sources

Geographic	France vs USA	Divergent diagnoses based on regional training	
Geographic	USA vs China	Divergent diagnoses based on regional training	
Temporal	Release dates vary	Model release dates span from 2023-09 to 2024-11, potential	y affecting knowle
Training Data	Multilingual web data	Broad knowledge but variable quality	
Training Data	Curated datasets	Standard medical training data	

Unique Model Perspectives

Model	Unique Diagnosis	Reasoning	
Gemma 2 9B	Structured Vs. Unstructured	Medical records contain both structured data (like dates, lab results) ar	ınd u
Gemma 2 9B	Variability	Different doctors may use different phrasing to describe the same cond	dition.
Gemma 2 9B	Translation Strategies	No reasoning	

Diagnostic Categories

• Other: Understanding The Challenge**, Structured Vs. Unstructured, Variability

Detailed Model Responses

Mistral 7B (France)

1. Unknown Recurrent abdominal pain and inflammatory markers elevation, but

lack of typical IBD symptoms like diarrhea and weight loss.

2. Unknown Recurrent joint pain affecting knees and ankles, but lack of typical RA

symptoms like morning stiffness and rheumatoid nodules.

3. Unknown Possible chest pain and joint pain, but lack of typical SLE symptoms

like rash, photosensitivity, and serositis.

Gemma 2 9B (USA)

 Understanding the Challenge Medical data is inherently complex:

2. Understanding the

Challenge

Medical data is inherently complex:

3. Structured vs. Unstructured

Medical records contain both structured data (like dates, lab results)

and unstructured text (like doctor's notes).

Llama 3.2 3B (USA)

Unknown Similar symptoms of joint pain and stiffness, but without the

characteristic fever and abdominal pain

2. Unknown Similar symptoms of joint pain and skin lesions, but without the

characteristic fever

Unknown
Similar symptoms of abdominal pain and weight loss, but without the

characteristic fever and joint pain

Qwen 2.5 32B (China)

Unknown Given the patient's Mediterranean descent, recurrent episodes of fever

with abdominal pain, pleurisy, and arthritis, and family history of similar

symptoms, FMF is a strong consideration.

2. Unknown The patient's chest pain with breathing difficulties could be related to

vasculitis affecting large arteries, such as Takayasu Arteritis, which

also presents with fever and joint pain.

3. Unknown Recurrent episodes of fever and pain in joints, especially the knees

and ankles, along with the possibility of chest pain due to inflammation,

may indicate Behcet's Disease, but this diagnosis typi...

DeepSeek V3 (China)

Unknown Recurrent fevers and periodic symptoms are consistent with PFAPA,

but the absence of aphthous stomatitis and pharyngitis makes this less

likely.

2. Unknown Episodic fever and joint pain are seen in systemic JIA, but the family

history and Mediterranean descent make FMF more likely.

3. Unknown Other hereditary periodic fever syndromes could present similarly, but

FMF is the most common and fits the clinical picture best.

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