Qualitative Interviews of Patients with Meth-APAH: Understanding the Unmet Medical Need from the Patient Lens

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Background

- PAH is a complex, progressive and potentially fatal disease characterized by increased pulmonary vascular resistance, leading to right heart failure and premature mortality
- Toxin-induced PAH is a growing concern, particularly Meth-APAH, which is increasing in prevalence and reflecting the rise in methamphetamine use in the US and globally
- Patients with Meth-APAH navigate the complex intersection of low awareness, poorly understood pathophysiology, and socioeconomic and psychological barriers associated with substance use related disorders

Objective

To illuminate the clinical journey of patients with Meth-APAH, providing a deeper understanding of their experiences and highlighting key unmet needs

Methods and Participant Sample

20 adult (aged 18 or older) patients diagnosed with PAH with a history of methamphetamine use in the US participated in this research

- Structured interviews were conducted in July-August 2024
- Patients were recruited through a vendor specializing in rare disease patient voice and participants gave informed consent
- Participants were geographically distributed as follows: 40% West, 20% Midwest, 30% South, 10% Northeast
- The average age of patients at time of interviews was 50 years old; 90% were female; 75% were White; 30% had a college degree; 50% were full-time employed at time of diagnosis; 15% were uninsured at time of diagnosis
- Though most patients reported being under the care of a PAH specialist, 20% (N=4/20) were not seeing a PAH specialist for their PAH care while 10% (N=2/20) said they were unsure about their PAH physician's specialty

Interviews were structured around four key themes:

Patient methamphetamine use history

Path to Meth-APAH diagnosis

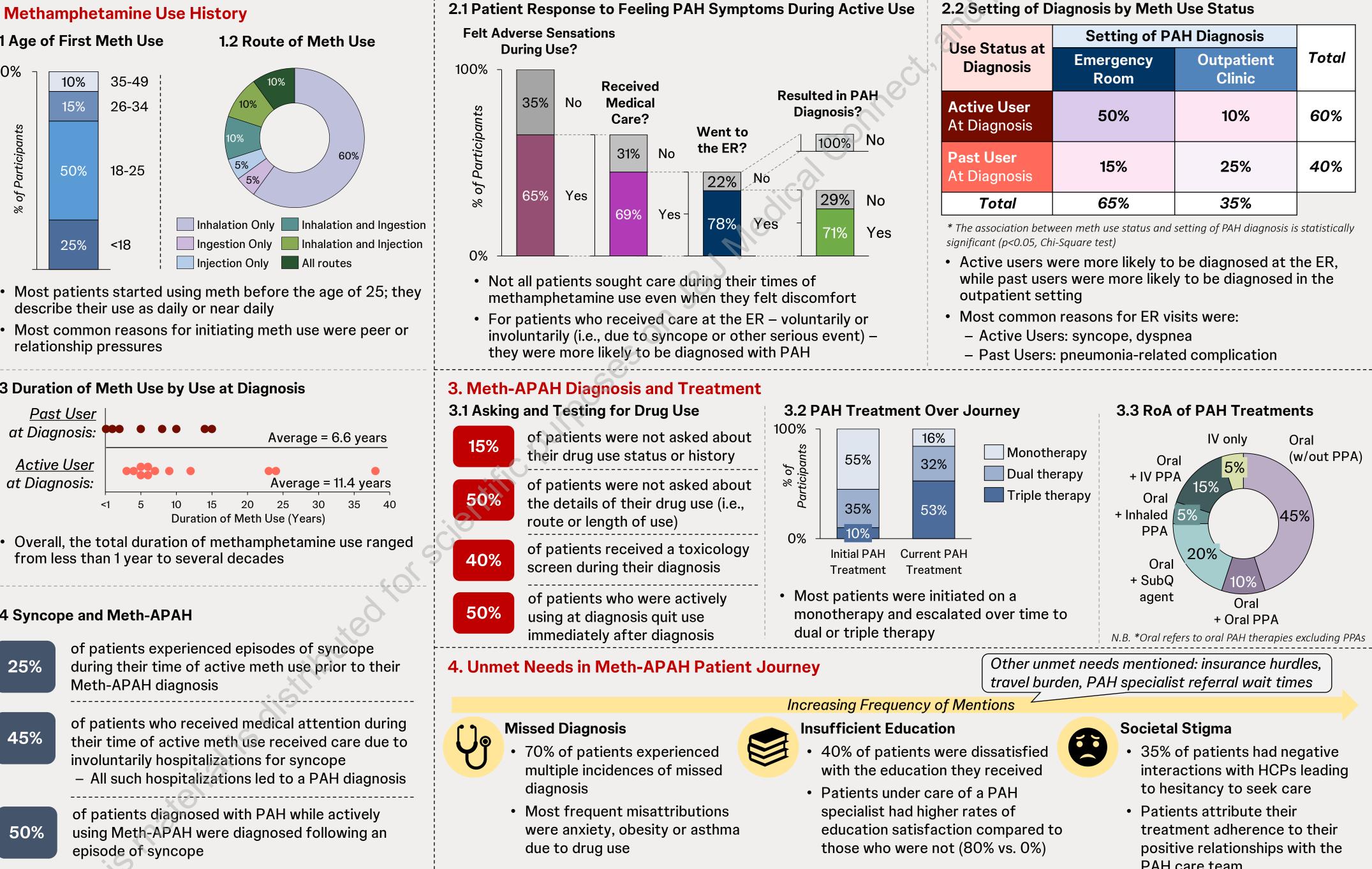
Meth-APAH Treatment Experiences

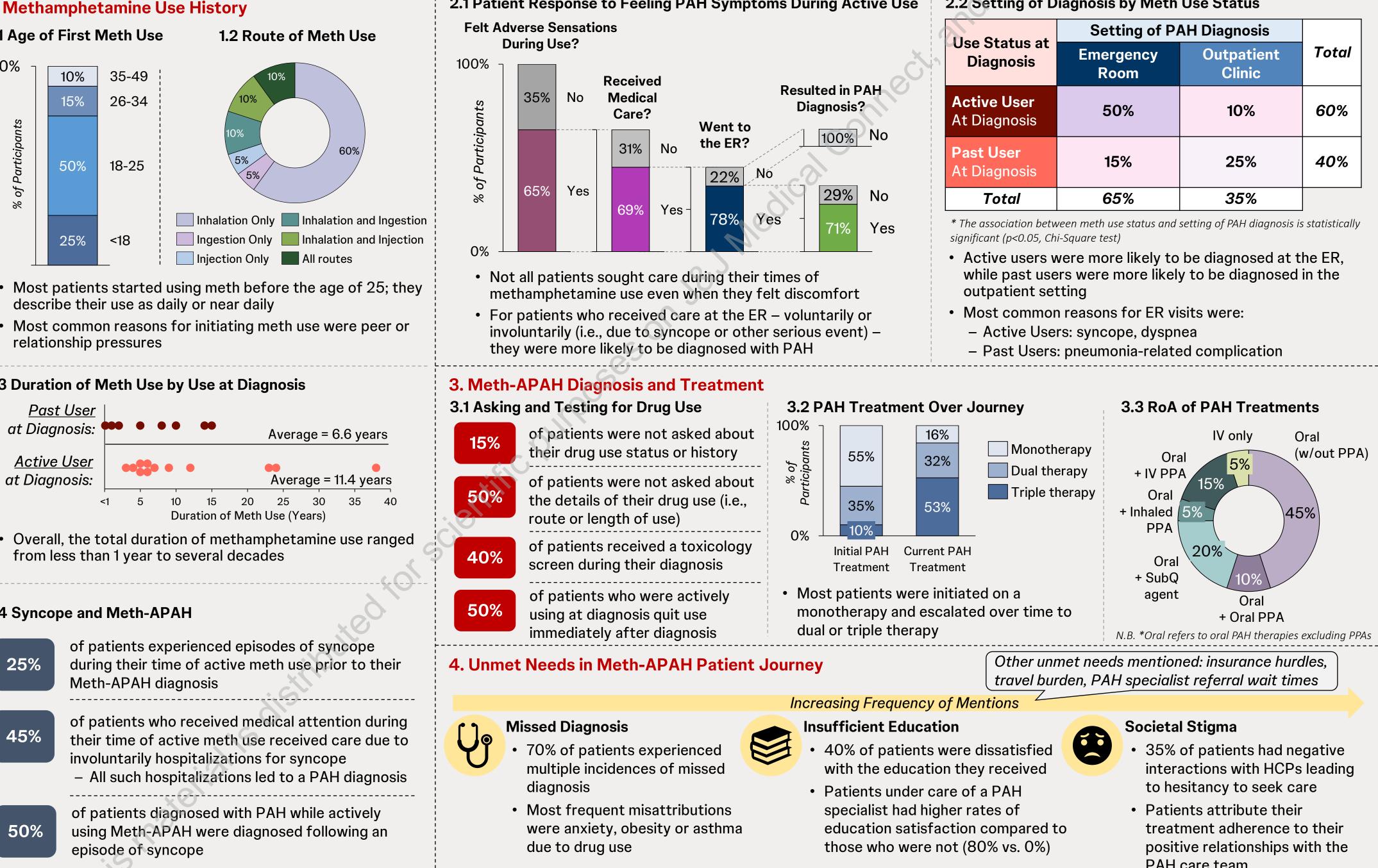
Challenges and Unmet needs in patient journey

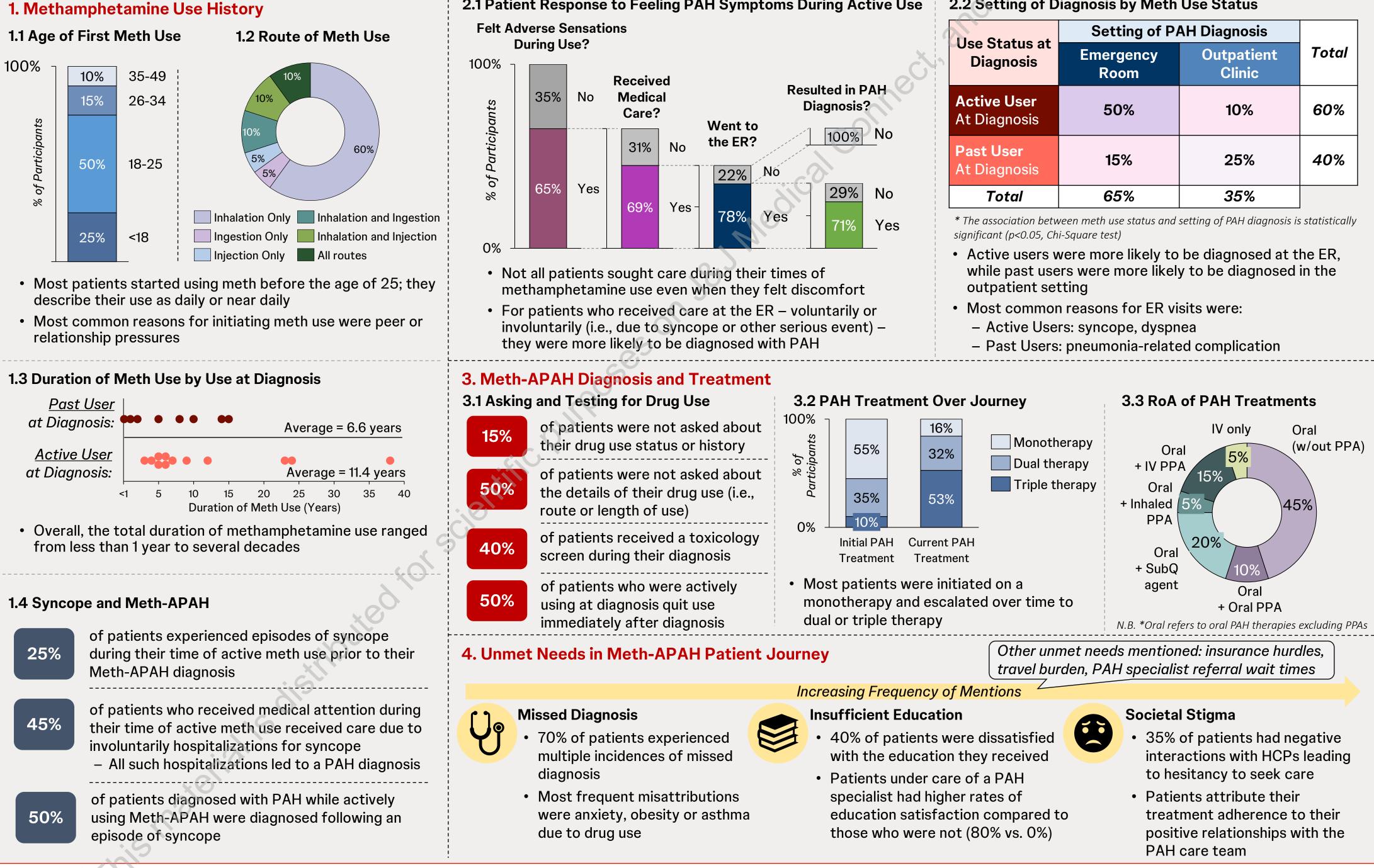
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Results







Abbreviations ER=Emergency Room; HCP=Health Care Professional; HIV=Human Immunodeficiency Virus; HR=Heart Rate; Meth=Methamphetamine; Meth-APAH=Methamphetamine-associated Pulmonary Arterial Hypertension; PAH=Pulmonary Arterial Hypertension; PAH=Pulmonary Arterial Hypertension; PPA=Prostacyclin Pathway Agent; QoL=Quality of Life; RoA=Route of Administration

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2. Journey to PAH Diagnosis

2.2 Setting of Diagnosis by Meth Use Status

Use Status at Diagnosis	Setting of PAH Diagnosis		
	Emergency Room	Outpatient Clinic	Total
Active User At Diagnosis	50%	10%	60%
Past User At Diagnosis	15%	25%	40%
Total	65%	35%	

Key takeaways

This first-of-its-kind study sheds light on challenges faced by patients with Meth-APAH and the urgent need for increased awareness, educational resources, collaboration with substance abuse specialists and empathy in Meth-APAH care



- Over half of the participants were still using meth when they were diagnosed with PAH
- The majority of participants were diagnosed following a severe event which led them to the ER, such as syncope or dyspnea
- Not all patients were asked about their drug use history and the majority were not asked to perform a toxicology screen _____



Only 50% of the participants were asked about the details of their drug use by their treating physician



• Missed diagnosis, insufficient education and societal stigma were noted as the greatest challenges in the Meth-APAH patient journey

Implications of this Study

To improve patient experiences and outcomes in Meth-APAH care, the findings of this study call for:



Raising Awareness in Frontline HCPs Given the high percentage of patients first presenting at the

ER with severe symptoms such as syncope, raising awareness and increasing suspicion of Meth-APAH in frontline HCPs may help with timely diagnosis



Increased Patient Education on Meth-APAH

Many patients, especially those under care by a non-PAH specialist, would like more educational resources to empower them to know more about their diagnosis



Strategies for Compassionate Care

Patients appreciate straightforward, persistent, but caring attitudes from their PAH care teams; longer discussions and proactive check-ins build trust

Disclosures

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Pulmonary Hypertension

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