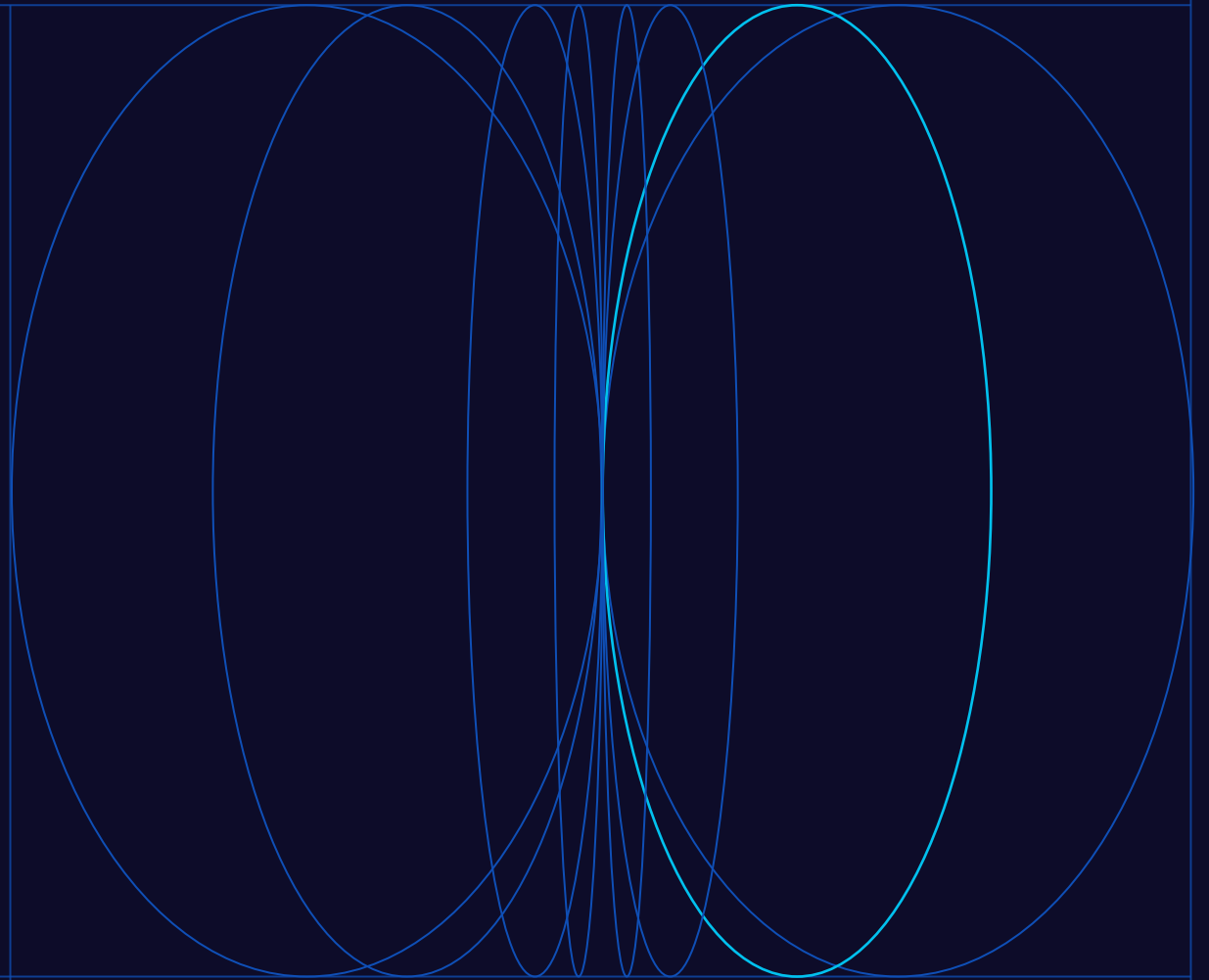




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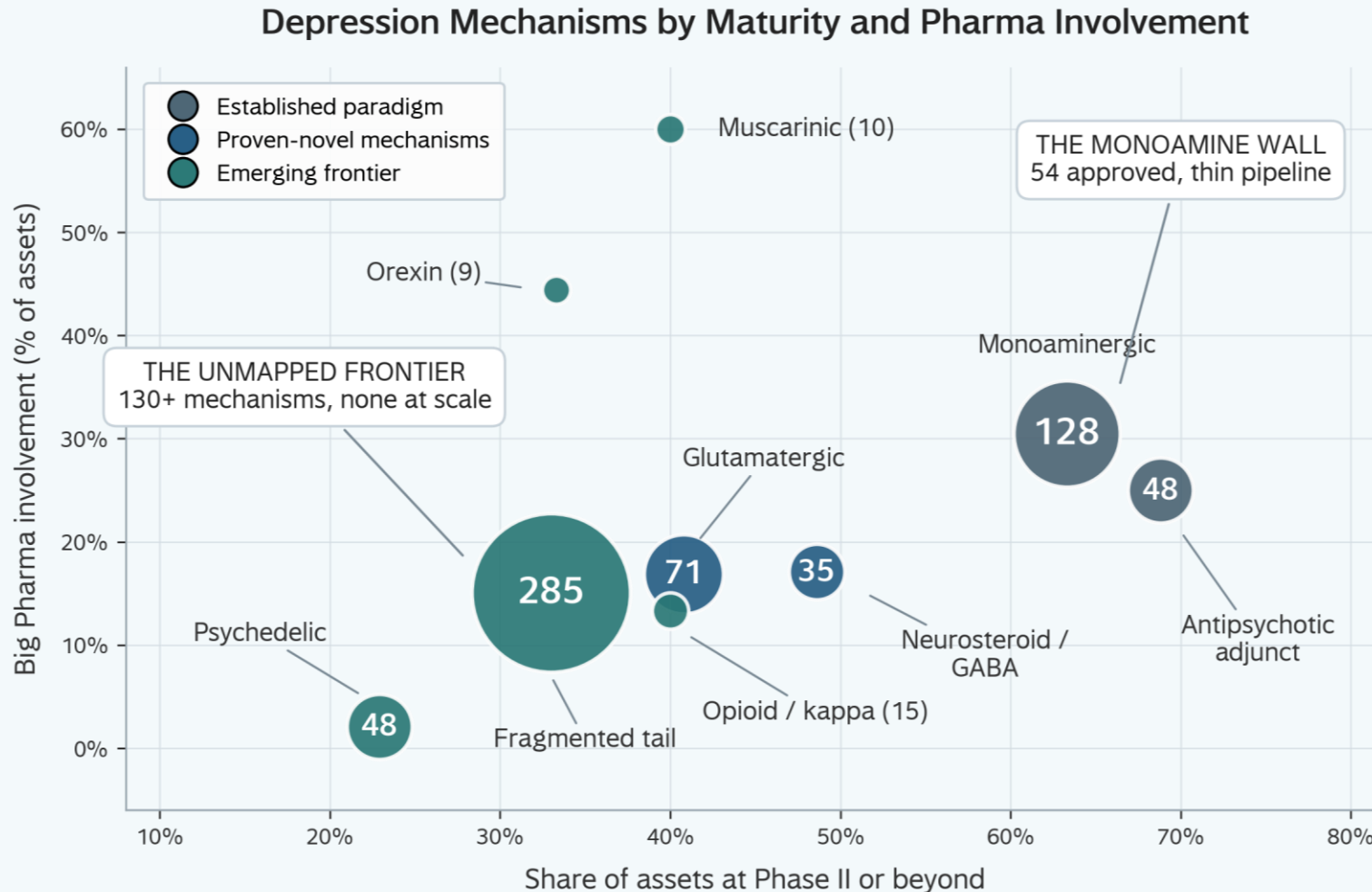
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Depression R&D Is a Barbell, Consolidated and Fragmented at Once

Approvals locked on monoamines, the pipeline scattered across 130 mechanisms

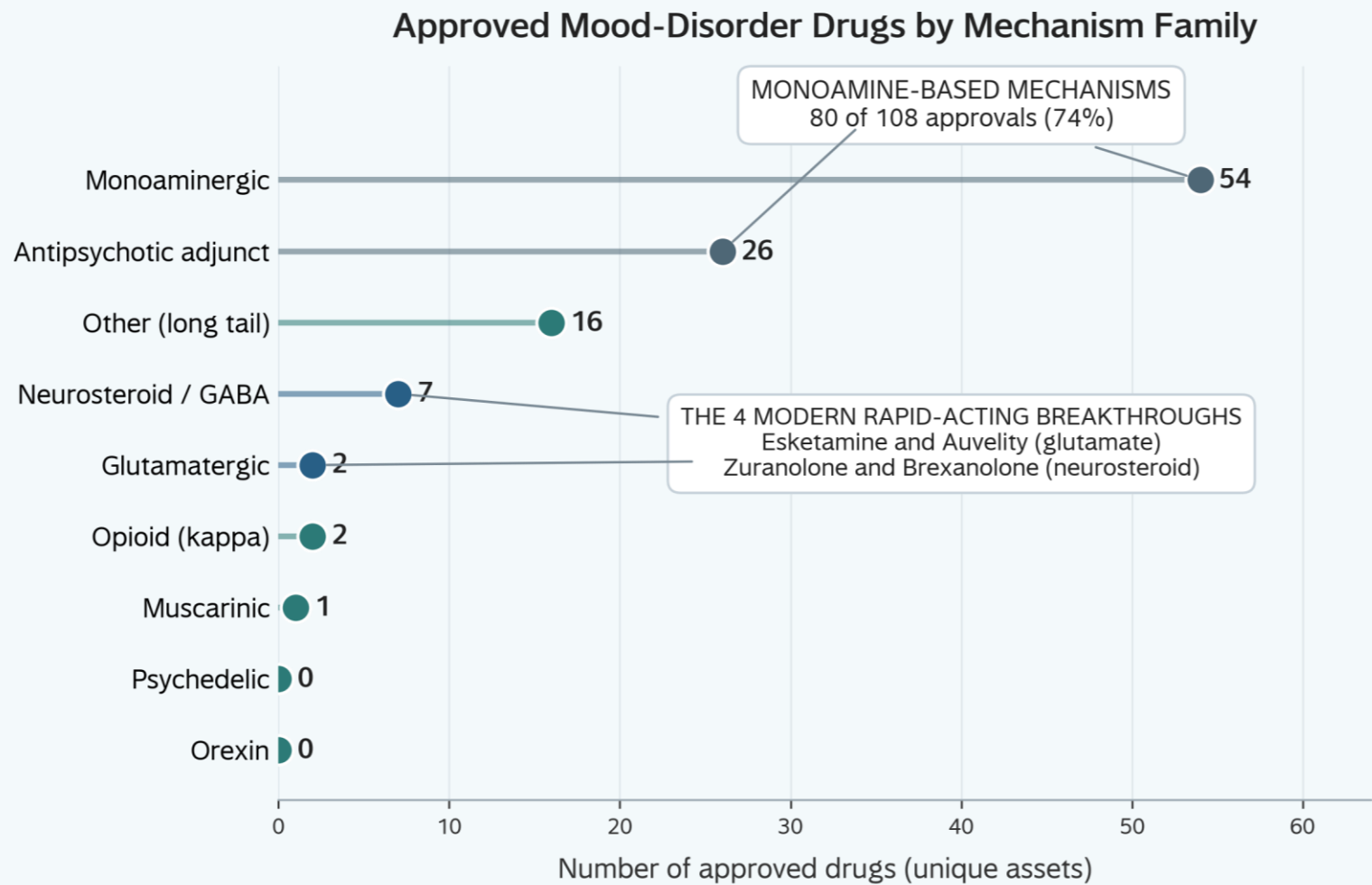


- The largest block in the pipeline is 130-plus distinct mechanisms, none holding more than a dozen assets.¹
- 15 assets carry no disclosed mechanism at all, more than the entire psychedelic field.
- Big Pharma sits in 24% of that fragmented tail, versus 2% in psychedelics.
- The two monoamine families that hold nearly every approval are the consolidated end of the barbell.



Four Drugs in Twenty Years Broke Depression's Monoamine Lock

Only four modern approvals broke the paradigm, and all act fast



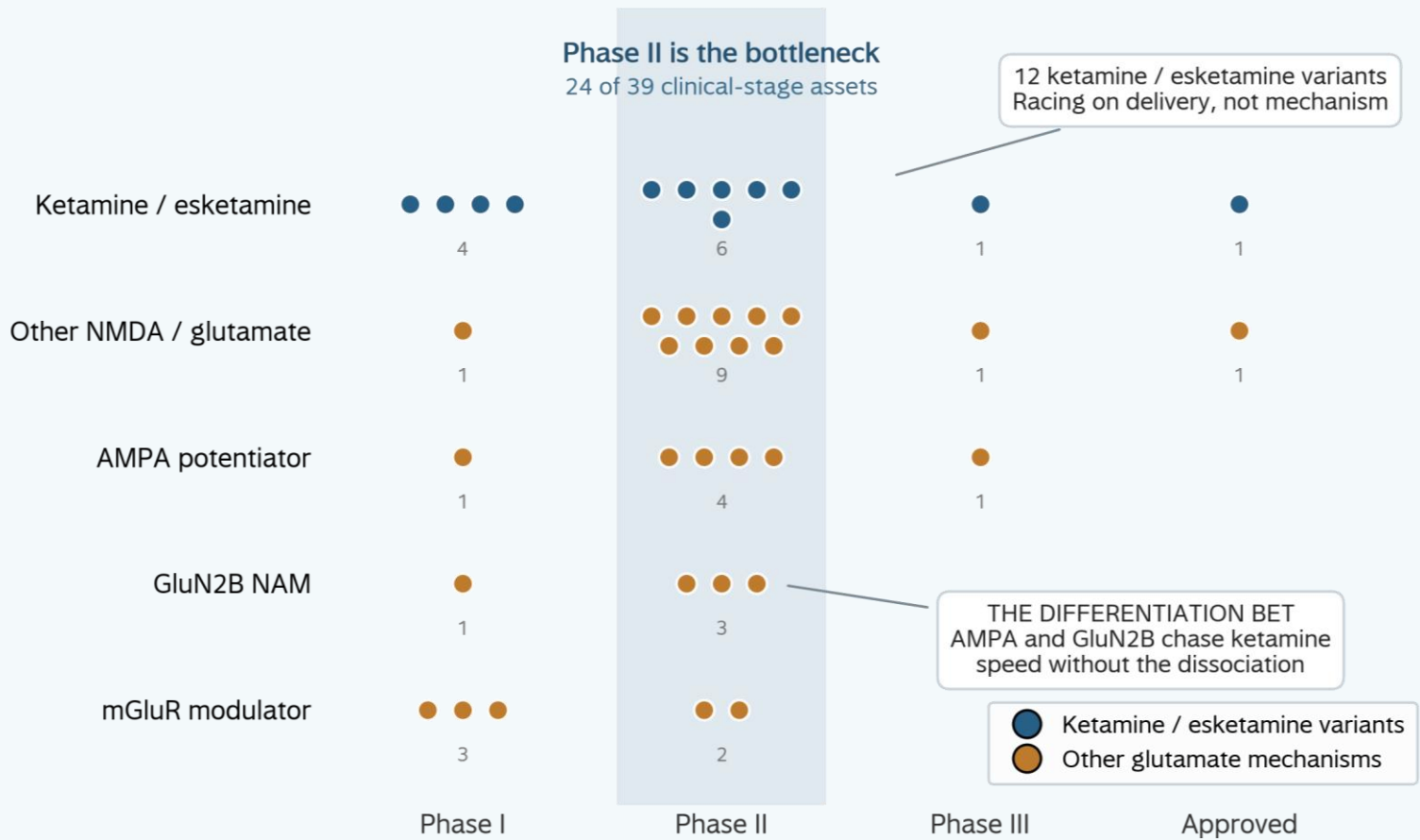
- Monoamines carry 80 of 108 approved depression drugs, three-quarters of the market on a 1990s playbook.
- The four exceptions share a rapid-relief claim, days to a week against an SSRI's four to eight weeks.
- One of them, brexanolone, was already pulled over its 60-hour infusion, undone by delivery not efficacy.
- Psychedelics and orexin have still produced zero approvals, despite deep and active clinical pipelines.



Glutamate's Novel Wave Is a Twelve-Way Ketamine Race

Twelve ketamine variants in the clinic, feeding a 24-asset Phase II logjam

Clinical Glutamate Assets by Sub-Mechanism and Phase

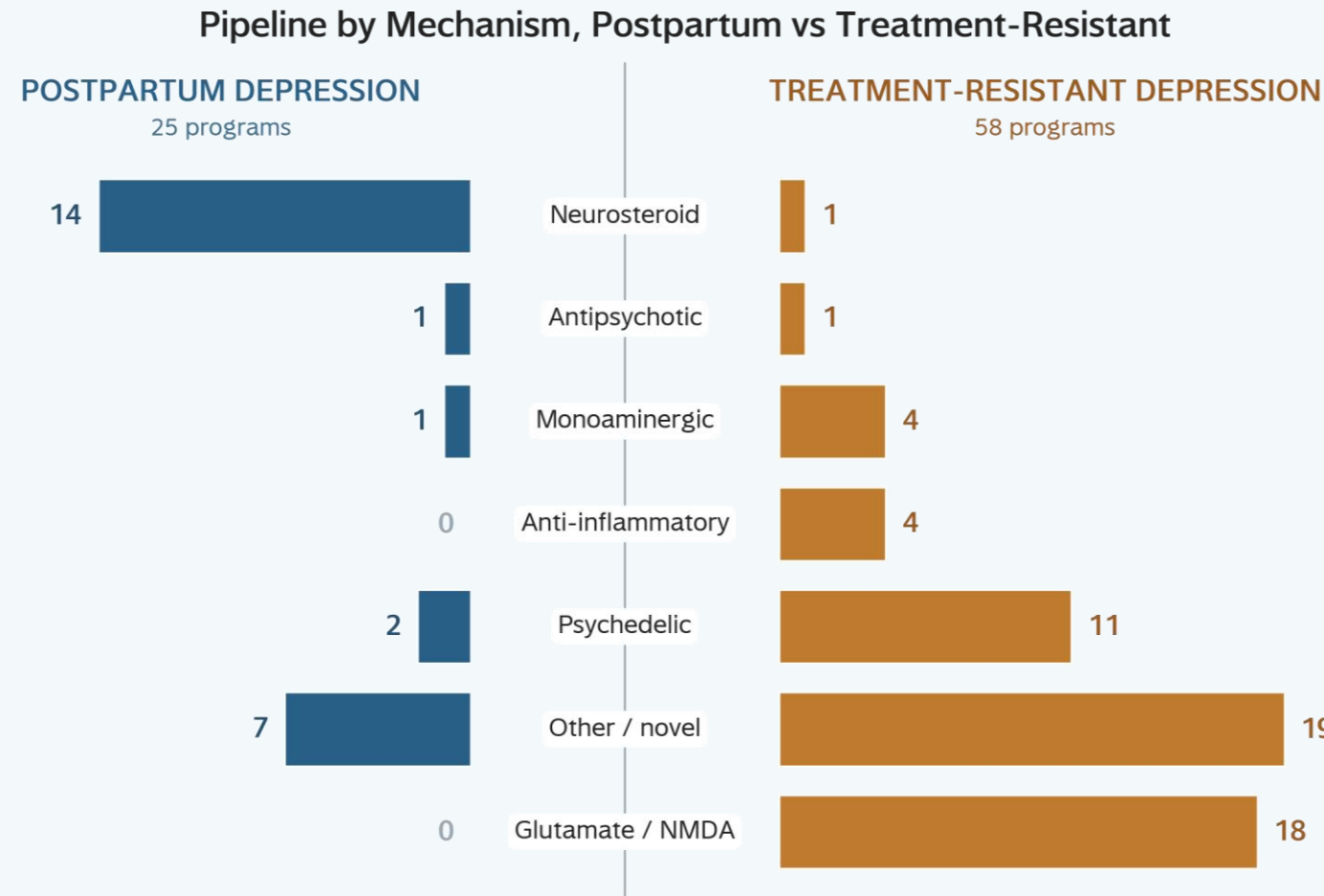


- Glutamate has 39 clinical assets, and 24 are stuck at Phase II, the obvious bottleneck.
- Twelve are ketamine or esketamine in another form, competing on how it is dosed rather than on biology.
- The real differentiation sits with ten AMPA and GluN2B programs chasing ketamine's speed without the dissociation.
- Inside glutamate, the winning question is no longer the target. It is tolerability and route of delivery.



Postpartum and Treatment-Resistant Are Two Different Games

One has a settled mechanism, the other has none



- Postpartum depression is a neurosteroid monoculture: 14 of 25 programs share one mechanism, so price and convenience decide.
- Treatment-resistant has no settled mechanism. Its 58 programs scatter across glutamate, psychedelics, anti-inflammatories, and a long novel tail.
- In postpartum, the win is a better oral neurosteroid, on a fast path into a commoditizing field.
- Treatment-resistant offers open biology and the deepest unmet need, against one of the toughest endpoints in the field.



Programs by mechanism family within each indication (postpartum depression n=25; treatment-resistant depression n=58); digital therapeutics, imaging, and microbiome excluded. 5-MeO-DMT agents classified as psychedelic. Brexanolone, the IV neurosteroid first approved for PPD, had its approval withdrawn in April 2025; oral zuranolone remains, which is why the PPD race is now about oral convenience and price.