





Clinical experience learned from approved esketamine and potential implications for psychedelics

Prof Philip Gorwood, MD, PhD Université Paris Cité Sainte-Anne hospital, Paris FRANCE

Disclosures: Professor Philip Gorwood

Interest	Name of organisation(s)			
Grants	none			
Honoraria	Biogen, Janssen, Lundbeck, Merk, Otsuka, Richter and Viatris			
Shares	none			
Paid positions	none			
Lectures and advisory boards	Janssen, Lundbeck, Otsuka and Viatris			
Consultant	none			
Other involvement	none			

There is a significant burden of Treatment Resistant Depression (TRD)



Higher severity (+2, HRDS)



More hospitalisation (OR=x1.8)



Higher **Suicidal** Ideas (x3)



More **ER frequency** (OR=**x1.5**)



Impaired **QoL** (-6, SF-12)



More **comorbidities** (+6% with >3)

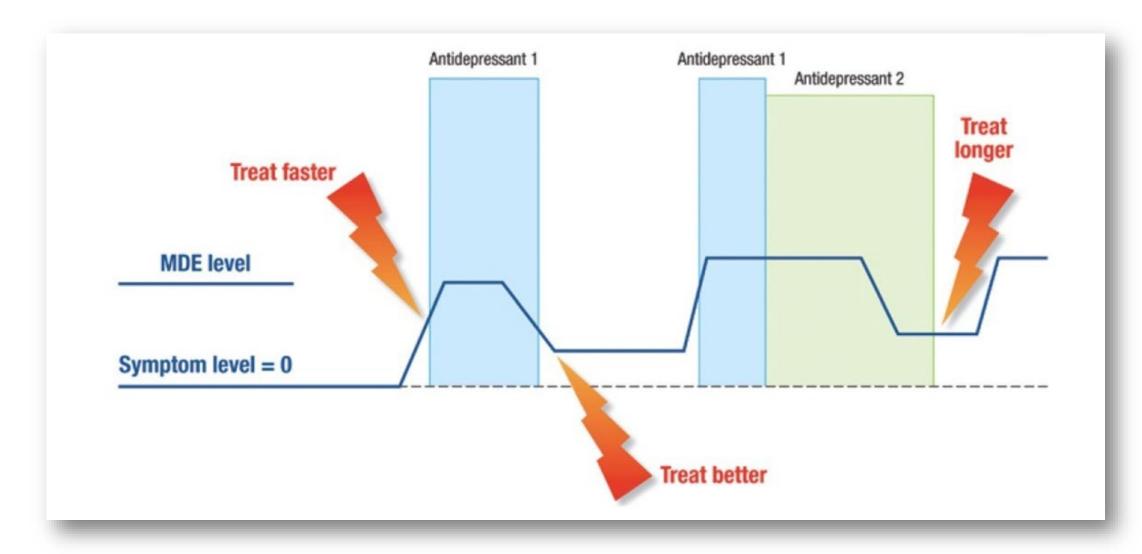


Higher absenteeism (RR=x1.5)



Higher costs (+1.5k€/year)

Research on MDE treatment¹



Options for the management of TRD

<u>Option</u>	<u>Rational</u>		
Extend current treatment	Late responders		
Switch	Other MoA		
Combine	Target specific symptoms		
	Build on what was obtained		
Ketamine	Rapid onset		
Esketamine	Rapid onset & > SGA		
SGA	Easy		
ECT	Gold standard		
rTMS	High acceptance		
Vague nerve stimulation	Chronicity		
<u>Psychotherapies</u>	At all stages		

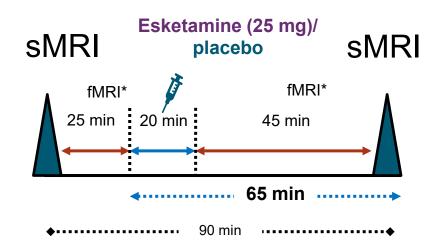
Treatment-resistant depression: definition, prevalence, detection, management, and investigational interventions

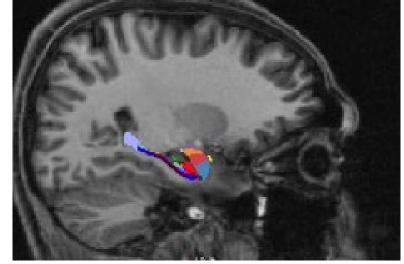
Roger S. McIntyre¹⁻³, Mohammad Alsuwaidan³, Bernhard T. Baune^{4,5}, Michael Berk^{5,6}, Koen Demyttenaere⁷, Joseph F. Goldberg⁸, Philip Gorwood⁹, Roger Ho^{10,11}, Siegfried Kasper¹², Sidney H. Kennedy³, Josefina Ly-Uson¹³, Rodrigo B. Mansur³, R. Hamish McAllister-Williams¹⁴, James W. Murrough⁸, Charles B. Nemeroff¹⁵, Andrew A. Nierenberg¹⁶, Joshua D. Rosenblat³, Gerard Sanacora¹⁷, Alan F. Schatzberg¹⁸, Richard Shelton¹⁹, Stephen M. Stahl²⁰, Madhukar H. Trivedi²¹, Eduard Vieta²², Maj Vinberg²³, Nolan Williams¹⁸. Allan H. Young²⁴. Mario Maj²⁵

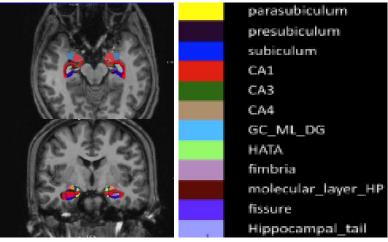
(World Psychiatry 2023;22:394-412)

Volume increase of the hippocampus after 65 min of esketamine (vs placebo)

- Patients with MDD¹ have decreased hippocampal volume
- Ketamine rescue spine formation after 24h in rats²
- Esketamine infusion increased hippocampal volume in healthy controls in one hour, showing rapid neuroplastic effects³

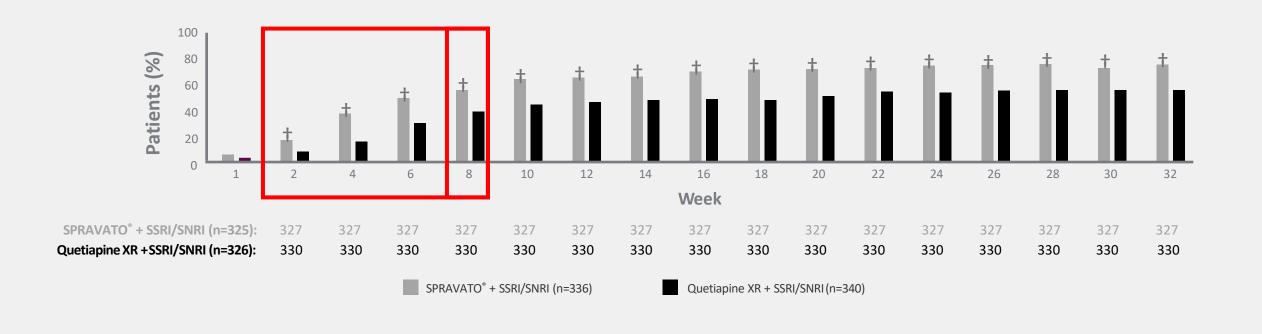




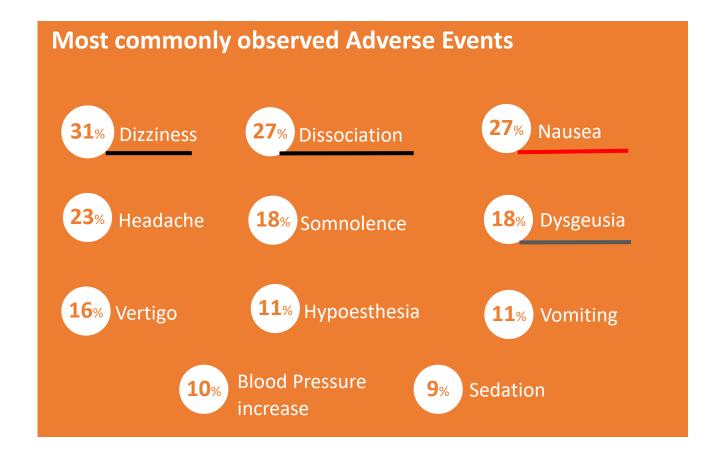


Treatment response* with SPRAVATO® + SSRI/SNRI vs quetiapine XR + SSRI/SNRI at any time point¹

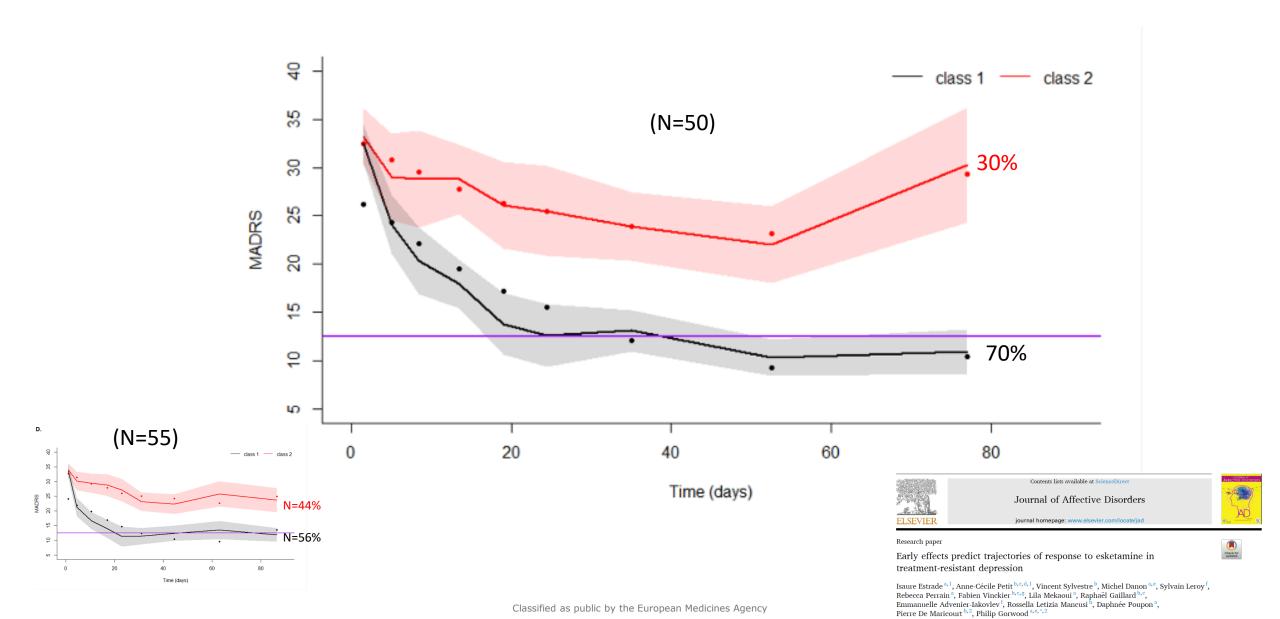
Response rates over time (LOCF)



Esketamine tolerability



Two trajectories of treatment response in TRD



When should we take a decision?

Day (100)	AUC	PPV	NPD	Accuracy	OR
First visit	0.549				
Day 3	0.768	86.8%	61.5%	74.3%	10.5
Day 7	0.845	90.9%	68.0%	80.0%	21.3
Day 10	0.829	92.7%	70.0%	81.9%	29.7
Day 14	0.886	90.0%	73.3%	82.9%	24.8



Contents lists available at ScienceDirect

Journal of Affective Disorders

journal homepage: www.elsevier.com/locate/jad

Research paper

Early effects predict trajectories of response to esketamine in treatment-resistant depression





Conclusions

- New mechanism (immediate effect), new delivery organisation (atypical settings with pros and cons), new monitoring (quick efficacy and sideeffects, unclear long term effects), new costs (therefore accessibility), new risks (but no abuse)... creating new hopes and requests for patients
- Treatment given in centers and with shorter delay of action are resolving one of the main problem: compliance!
- But also many lessons learned
 - The need/benefit of specific setting (staff, room & human decoration, medical monitoring)
 - We can (should?) use largely & quickly... and quickly drop it if poor response
 - TRD are not being correctly treated (for >50%: 5 years disorder, 4 episodes, single treatment, single clinician)







Thank you!

Prof Philip Gorwood, MD, PhD Université Paris Cité Sainte-Anne hospital, Paris FRANCE