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# Safety of Ketamine in the Prehospital Setting

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October 2025

**VA**



**U.S. Department of Veterans Affairs**

Veterans Health Administration  
*Health Systems Research*

**Recommended citation:** Anderson JK, Beech EH, Mackey KM. Safety of Ketamine in the Prehospital Setting: A Systematic Review. Washington, DC: Evidence Synthesis Program, Health Systems Research, Office of Research and Development, Department of Veterans Affairs. VA ESP Project #09-199; 2025.

# *Appendices*

## SEARCH STRATEGIES

### MEDLINE

Ovid MEDLINE Epub Ahead of Print and In-Process, In-Data-Review & Other Non-Indexed Citations and Daily April 07, 2025

#	Search Statement	Results
1	Ketamine/ or (arketamine or calipsol or calypsol or kalipsol or ketajet or ketalar or ketamine or ketanest or ketastet or CI-581 or CI582 or esketamine or kataved or spravato).ti,ab,kf	27256
2	exp Ambulances/ or Emergency Medical Services/ or Emergency Medical Technicians/ or Emergency Medicine/ or exp Emergency Responders/ or Emergency Treatment/ or Evidence-Based Emergency Medicine/ or First Aid/ or Paramedicine/ or Triage/ or (ambulance* or (emergency adj3 (care or evacuation or helicopter* or medicine or personnel or practitioner* or rescue* or respon* or resus* or service* or technician* or treat* or therap* or triag* or unit*)) or ems or emt or fire fighter* or firefighter* or (first adj1 (aid or responder*)) or medevac or medivac or paramedic* or out-of-hospital or pre-hospital or prehospital or (rescue adj3 (personnel or service*))).ti,ab,kf	267237
3	Military Medicine/ or (battlefield or combat or (field adj3 (medical or technician*)) or medic or medics or military medicine).ti,ab,kf	102583
4	2 or 3	365470
5	1 and 4	757
6	limit 5 to dt=20190509-20251231	303
	<b>Total</b>	<b>303</b>

Search date: 04/08/2025

## COCHRANE LIBRARY

#	Search Statement	Results
1	MeSH descriptor: [Ketamine] this term only	3203
2	(arketamine or calipsol or calypsol or kalipsol or ketajet or ketalar or ketamine or ketanest or ketastet or CI-581 or CI582 or esketamine or kataved or spravato):ti,ab,kw	9020
3	#1 or #2	9020
4	MeSH descriptor: [Ambulances] explode all trees	252
5	MeSH descriptor: [Emergency Medical Services] this term only	1497
6	MeSH descriptor: [Emergency Medical Technicians] this term only	225
7	MeSH descriptor: [Emergency Medicine] this term only	366
8	MeSH descriptor: [Emergency Responders] explode all trees	521
9	MeSH descriptor: [Emergency Treatment] this term only	372
10	MeSH descriptor: [Evidence-Based Emergency Medicine] this term only	6
11	MeSH descriptor: [First Aid] this term only	130
12	MeSH descriptor: [Paramedicine] this term only	3
13	MeSH descriptor: [Triage] this term only	0
14	(ambulance* or (emergency NEAR/3 (care or evacuation or helicopter* or medicine or personnel or practitioner* or rescue* or respon* or resus* or service* or technician* or treat* or therap* or triag* or unit*)) or ems or emt or fire fighter* or firefighter* or (first NEAR/1 (aid or responder*)) or medevac or medivac or paramedic* or out-of-hospital or pre-hospital or prehospital or (rescue NEAR/3 (personnel or service*)))):ti,ab,kw	21961
15	{or #4-#14}	22088
16	MeSH descriptor: [Military Medicine] this term only	204
17	(battlefield or combat or (field NEAR/3 (medical or technician*)) or medic or medics or military medicine):ti,ab,kw	3761
18	#16 or #17	3761
19	#15 or #18	25595
20	#3 and #19	293
21	limit 20 to 2019-2025	127
<b>Total</b>		<b>127</b>

Search date:04/08/2025

**CINAHL ULTIMATE**

#	Search Statement	Results
1	(MH "Ketamine") OR TX ( (arketamine or calipsol or calypsol or kalipsol or ketajet or ketalar or ketamine or ketanest or ketastet or CI-581 or CI582 or esketamine or kataved or spravato) ) OR AB ( (arketamine or calipsol or calypsol or kalipsol or ketajet or ketalar or ketamine or ketanest or ketastet or CI-581 or CI582 or esketamine or kataved or spravato) )	6526
2	( MH "Ambulances") or (MH "Aeromedical Transport") or (MH "Emergency Medical Services") or (MH "Emergency Medical Technicians") or (MH "Emergency Medicine") or (MH "Emergency Responders+") or (MH "Emergency Treatment") or (MH "First Aid") or (MH "Paramedicine") or (MH "Triage") ) OR TI ( (ambulance* or (emergency N3 (care or evacuation or helicopter* or medicine or personnel or practitioner* or rescue* or respon* or resus* or service* or technician* or treat* or therap* or triag* or unit*)) or ems or emt or fire fighter* or firefighter* or (first N1 (aid or responder*)) or medevac or medivac or paramedic* or out-of-hospital or pre-hospital or prehospital or (rescue N3 (personnel or service*)) ) AND AB ( (ambulance* or (emergency N3 (care or evacuation or helicopter* or medicine or personnel or practitioner* or rescue* or respon* or resus* or service* or technician* or treat* or therap* or triag* or unit*)) or ems or emt or fire fighter* or firefighter* or (first N1 (aid or responder*)) or medevac or medivac or paramedic* or out-of-hospital or pre-hospital or prehospital or (rescue N3 (personnel or service*)) ) )	89089
3	(MH "Military Medicine") OR TI ( (battlefield or combat or (field N3 (medical or technician*)) or medic or medics or military medicine) ) OR AB ( (battlefield or combat or (field N3 (medical or technician*)) or medic or medics or military medicine) )	22833
4	S2 or S3	110566
5	S1 and S4	311
6	(S1 and S4) and EM 20190509-20251231	115
	<b>Total</b>	<b>115</b>

Search date: 04/08/2025

**SCOPUS**

#	Search Statement	Results
1	TITLE-ABS-KEY ( ( arketamine OR calipsol OR calypsol OR kalipsol OR ketajet OR ketalar OR ketamine OR ketanest OR ketastet OR ci-581 OR ci582 OR esketamine OR kataved OR spravato ) )	71622
2	TITLE-ABS-KEY ( ambulance* OR ( emergency W/3 ( care OR evacuation OR helicopter* OR medicine OR personnel OR practitioner* OR rescue* OR respon* OR resus* OR service* OR technician* OR treat* OR therap* OR triag* OR unit* ) ) OR ems OR emt OR fire-fighter* OR firefighter* OR ( first W/1 ( aid OR responder* ) ) OR medevac OR medivac OR paramedic* OR out-of-hospital OR pre-hospital OR prehospital OR ( rescue W/3 ( personnel OR service* ) ) )	54636
3	TITLE-ABS-KEY ( ( battlefield OR combat OR ( field W/3 ( medical OR technician* ) ) OR medic OR medics OR "military medicine" ) )	254883
4	2 or 3	794254
5	1 and 4	2785
6	5 and ORIG-LOAD-DATE AFT 20190509	1180
<b>Total</b>		<b>1180</b>

Search date: 04/08/2025

Database	Results	
Ovid Medline	303	
CDSR and CENTRAL (Cochrane Library)	127	
CINAHL Ultimate (EBSCO)	115	
Scopus (Elsevier)	1180	
<b>Total</b>		<b>1725</b>
<b>Total after deduplication</b>		<b>1354</b>