Supplementary table 1 Richmond agitation-sedation scale

Score	Term	Description
+4	Combative	Overtly combative or violate; immediate danger to staff
+3	Very agitated	Pulls on or removes tube(s) or catheter(s); aggressive
+2	Agitated	Frequent non-purposeful movement, fights ventilator
+1	Restless	Anxious but movements not aggressive or vigorous
0	Alert and calm	
-1	Drowsy	Not fully alert, but has sustained (>10 seconds) awakening (eye-opening/eye contact) to voice
-2	Light sedation	Briefly (<10 seconds) awakens with eye contact to voice
-3	Moderate sedation	Movement or eye opening (but no eye contact) to voice
-4	Deep sedation	No response to voice, but any movement to physical stimulation
-5	Unarousable	No response to voice or physical stimulation

Supplementary table 2 CAM-S short form scale*

Feature	Severity Score		
	Not Present	Present (mild)	Present (marked)
Acute onset & fluctuation course	0	1	——
Inattention	0	1	2
Disorganized thinking	0	1	2
Altered level of consciousness	0	1	2

*: Rate each symptom of delirium listed in the 3D-CAM as absent (0), mild (1), marked (2). Acute onset & fluctuation course is rated as absent (0) or present (1). Add these scores into a composite. Higher scores indicate more severe delirium.

Supplementary table 3 Chart-based delirium identification instrument

Question	Circle answer
Is there any evidence in the chart of acute confusion (e.g., delirium, mental status change, disorientation, hallucinations, agitation etc.)? Review entire medical record, including progress notes, nursing notes, consult notes, etc.	Yes No Uncertain
What is the source of information about the first episode of acute confusion?	Nurse's notes Physician's notes Other (specify): _____
Approximate time of onset first episode of acute confusion? Check nurse's notes, progress notes, orders, laboratories, for the earliest time referable to the event.	Date: ___ ___/ ___ ___ / ___ ___ Month Day Year Time: ___ ___ : ___ ___ am/pm Uncertain

Supplementary table 4 Telephone interview for cognitive status-40 (TICS-40) instrument Chinese version

Item	Score
What is today's date?	5
What is your address?	3
Counting backwards from 20 to 1	2
Repeating following 10 words: ball, flag, woods, watch, television, cellphone, scissor, pillow, pen, whip	10
Subtracting 7 from 100, 93, 86, 79, 72, 65	5
What do people usually use to cut paper?	2
Say this "no pains, no gains"	1
President's and prime minister's name	2
Recalling 10 words above mentioned	10