ALFENTANIL

The main differences between fentanyl and alfentanil are lower potency (about 25% of fentanyl), more rapid onset of action (within I minute), and shorter duration of action (5-10 minutes). It is therefore well-suited to administration by continuous infusion, because it has no active metabolites and low risk of accumulation. As for fentanyl, there is a risk of respiratory depression.

ALFENTANIL			
RECEPTOR TYPE	Gaba Receptors	α2-Receptors	Opioid Receptors
Receptor type			
ONSET	Rapid (< I minute)	Intermediate (I-3 minutes)	Slow (> 3 minutes)
Rate of Onset	Ø		
Rate of Offset			
EFFECT	Strong	Weak	None
Sedative effect (hypnosis and anxiolysis)			
Amnesic effect			Ø
Analgesic effect	Ø		
RISKS	None	Lower Risk	Higher Risk
Cardiovascular effects (low pulse and/or blood pressure			
Respiratory depression			⋖
Potential to cause delirium			
Active metabolites and/or accumulation			
Potential toxic effects		Ø	
COST	Low	Intermediate	High
Cost			

