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## Pharmacotherapy and ventilatory control in health and disease

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***Stellingen behorend bij het proefschrift getiteld:  
“Pharmacotherapy and Ventilatory Control in Health and Disease”***

1. Ketamine has been around since 1966 but continues to be actively studied for various indications in the 2020s. An innovative oral thin-film seems suitable for S-ketamine delivery with relatively small variability in blood plasma levels. (*this thesis*)
2. The potency of S-ketamine to provide antinociception is three- to fivefold lower than the potency to induce subjective feelings of *drug high*; this potency difference may significantly limit patient compliance. (*this thesis*)
4. Oliceridine, a proposed G protein-biased  $\mu$  opioid-receptor agonist, has a lower potency to induce opioid-induced respiratory depression compared to morphine in an elderly population. (*this thesis*)
5. Hyperinsulinemia exerts modulatory effects on the hypoxic ventilatory response in healthy volunteers, an effect that was not observed in individuals affected by diabetes type 2. (*this thesis*)
6. A “black box” is a process or device whose internal workings are not understood by the operator, but whose function is important and may be studied in detail without appreciation of the internal mechanism. After decades of research, the black box process of breathing is still not completely understood.  
Adapted from J.F. Nunn (1966, Leeds, UK)
7. For every perfect medical experiment, there is a perfect cognitive bias.  
Adapted from Siddhartha Mukherjee (2015, Boston, US)
8. Trust the data, and if all we have are opinions, let’s go with mine.  
Adapted from Jim Barksdale (1981, Mississippi, US)
9. The retrospectoscope is a marvelous instrument, particularly if it is supplied with rose-colored lenses. Adapted from Julius H. Comroe Jr. (1977, San Francisco, US)
10. Water and air, two essential fluids for respiration and life, have become global trash.  
Adapted from Jacques Cousteau (1967, Parijs, Frankrijk)
11. What gets us into trouble is not what we don’t know, it’s the unknown unknowns and what we know for sure that just ain’t so. Adapted from Mark Twain (1885, Hannibal, US)
12. Every corpse on Everest was once an extremely motivated person.  
Anonymous Reddit.