

Supplementary material: Equivalent dosage ratios of breakthrough pain substances to oral morphine, sorted by potency (po: oral, iv: intravenous; sc: subcutaneous; subl: sublingual).

Active substance	Application form	Ratio substance : morphine oral	Reference
Pethidine	iv	1 : 0.1	Lucerne Cantonal Hospital
Tramadol	po	1 : 0.125	Swissmedic
Tapentadol	po	1 : 0.4	Baden Cantonal Hospital
Morphine	po	1 (reference)	Basel University Hospital
Oxycodone	po	1 : 1.5	Basel University Hospital
Morphine	sc	1 : 2	Lucerne Cantonal Hospital
Morphine	iv	1 : 3	Basel University Hospital; Lucerne Cantonal Hospital
Hydromorphone	po	1 : 5	Basel University Hospital
Hydromorphone	sc	1 : 15	University Hospital Hamburg-Eppendorf
Buprenorphine	subl	1 : 100	Basel University Hospital
Fentanyl	subl	1 : 150	Baden Cantonal Hospital

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