

Researchers estimated that the body absorbs 174.08 µg of 5-FU if a person uses 1g of a 5% 5-FU cream (total daily dose: 2 g). See Appendix2

The manuscript table presents the amount of 5-FU eliminated in 24 hours:

| Table III. Mean urinary excretion parameters after topical administration of 0.5% fluorouracil cream (0.5%) and 5% fluorouracil cream (5%) (N = 20). | | | | | | |
|--|--------|--------|------------|---------|---------------|--------|
| Interval, h | Ae, µg | | Cum Ae, µg | | Ex Rate, µg/h | |
| | 0.5% | 5% | 0.5% | 5% | 0.5% | 5% |
| 0* | 0.158 | 0.435 | 0.158 | 0.435 | – | – |
| 0–2 | 0.379 | 80.539 | 0.537 | 80.844 | 0.190 | 40.270 |
| 2–4 | 0.223 | 15.532 | 0.760 | 94.823 | 0.111 | 7.766 |
| 4–6 | 0.205 | 7.764 | 0.965 | 102.586 | 0.102 | 3.882 |
| 6–8 | 0.168 | 4.011 | 1.133 | 106.597 | 0.084 | 2.006 |
| 8–12 | 0.127 | 3.648 | 1.234 | 110.246 | 0.032 | 0.912 |
| 12–24 | 1.669 | 9.587 | 2.737 | 119.833 | 0.139 | 0.799 |

Ae = amount excreted; Cum Ae = cumulative amount excreted; Ex Rate = excretion rate.
*Hour of the final dose.

Total 5-FU eliminated in 24 hours:
 $0.435+80.539+15.532+7.764+4.011+3.648+9.587= 121.516 \mu\text{g}$

Percentage of 5-FU eliminated in 24 hours = $121.516 \mu\text{g} / 174.08 \mu\text{g} = 69.8 \%$

REFERENCE:

1. Levy S, Furst K , Chern W. A pharmacokinetic evaluation of 0.5% and 5% fluorouracil topical cream in patients with actinic keratosis. Clinical therapeutics 2001;23:908-20.