

Calculation of the amount of 5-FU injected in the patient with 133 IGH lesions:

## DATA and FORMULA

**1** DEFINITION 1: Each 10mL endovenous Fluorouracil vial (FAULDFLUOR) has 500 mg of 5-FU. Therefore, 1 mL of the solution has 50 mg of 5-FU.

② DEFINITION 2: Weight of 1 ml endovenous Fluorouracil (FAULDFLUOR® Libbs) measured by the first author using a precision scale: 1,031,498 µg/ml.

**3** Total area of 133 IGH lesions, considering that average diameter of each lesion is 4 mm:  $A = r^2 \times \pi$ . (2)<sup>2</sup> x 3.1416 x 133 lesions = 1,671.3312 mm<sup>2</sup>  $\approx$  16.7133 cm<sup>2</sup>

• We used this formula to calculate the density of the 5-FU solution injected in 1 cm<sup>2</sup> of skin<sup>1</sup>:





## **REFERENCES:**

1. Arbache S, Mattos EdC, Diniz MF, et al. How much medication is delivered in a novel drug delivery technique that uses a tattoo machine? *International journal of dermatology* 2019;58:750-755.