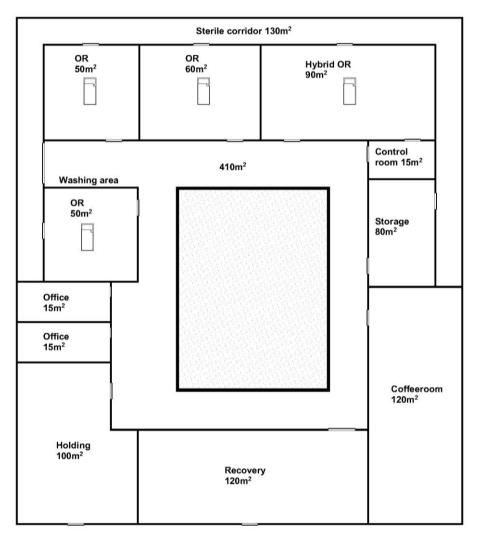
Supplementary 3. Example of the calculation of the construction costs

The following formulas were mentioned in the article:

- 1 $\sum C_{M2 \ not \ labeled \ as \ OR} = \sum M_{functionality \ i}^2 * C_{differentiated \ i}$
- $\frac{(\sum_{MOR\ department}^{2} * C_{M2} \cos s \circ R \ department) \sum_{MOR\ within\ OR\ department}^{2} \sum_{MOR\ within\ OR\ department}^{2} C_{M2} \cos s \circ R}{\sum_{MOR\ within\ OR\ department}^{2} + \sum_{MOR\ within\ OR\ department}^$

This supplement gives an example of the construction cost calculation. The "C" in the formula refers to costs and the "M²" to square meters.

Picture 1 shows a simplified OR department containing corridors, ORs, a storage room, offices, the holding, the recovery and a place to have lunch and coffee.



Picture 1 The total surface of this OR department is 1195m2.

Costs for constructing a m2 = €3479

Costs for constructing a m2 in an OR department = €5566 (differentiated with 160%)

The first part of the formula focuses on the surface of the OR department that is not belonging to the OR.

In this example that means: 30m2 office, 100m2 holding, 120m2 recovery, 120 m2 coffee room, 80m2 storage room, 410m2 standard corridor which sums up to: 860m2 The sterile corridor and control room were included in the surface belonging to the $OR = 395\text{m}^2$.

1 $\sum C_{M2 \ not \ labeled \ as \ OR} = \sum M_{functionality \ i}^2 * C_{differentiated \ i}$ Filling in this formula gives the table below:

$M_{functionality}^2$ i	Differentiated with	$(C_{differentiated\ i})*M_{functionality\ i}^2$
Moffice = 30m2	100%	= (3479 * 100%) * 30 = 104.370
Mholding = $100m2$	140%	= (3479 * 140%) * 100 = 487.060
Mrecovery = 120m2	140%	= (3479 * 140%) * 120 = 584.472
Mcoffee room = 120m2	75%	= (3479 * 75%) * 120 = 313.110
Mstorage = 80m2	75%	= (3479 * 75%) * 80 = 208.740
Mcorridor = 410m2	75%	= (3479 * 75%) * 410 = 1.069.792

$$\sum C_{M2 \ not \ labeled \ as \ OR} = \in 2.767.544$$

This number is used in the next formula

$$2 \frac{(\sum M_{OR\ department}^2* C_{M2\ costs\ OR\ department}) - \sum C_{M2\ not\ labeled\ as\ OR}}{\sum M_{OR\ within\ OR\ department}^2}$$

Two of the four variables were given at the beginning:

 M^2 OR department = $1195m^2$

M² costs of OR department =€5566

The final variable can be extracted from Picture 1: m^2 of OR within OR department = $+50 + 60 + 90 + 15 + 130 = 395 \text{ m}^2$

We can fill in the formula:

$$=((1195*5566)-2.767.544)/395$$

= € 9832

In this example constructing a m^2 of an OR would cost \in 9832.