

# Primary ventral hernia

## Our 6-years-experience in an open underlay mesh repair for primary ventral hernia

Iva Mitkova Borisova, Janice Velasco Moreno Bello, Silvia Grau Llacuna, Albert Solans Domenech, Edmon Pou Sanchis, Marta Lahuerta Garcia



#### Aim

Analyze the outcomes of the open underlay mesh placement (OUMP) with prosthetic hernia patch in the intraperitoneal (IP) or preperitoneal (PP) space



#### Primary outcome:

Hernia recurrence.

## Secondary outcomes:

- Identifying risk factors
- Comparison of different surgical techniques in the UOMP group

#### **Material & Methods**

A retrospective study from the year 2017 to 2022





Comparison of recurrence and no recurrence group; Multivariate analysis in the OUMP subgroup



#### Results

538 patients Types of hernias: Umbilicals (87.5%) Epigastrics (12.5%)

hernia repair

Seroma

Wound infection

#### 564 hernias:

- OUMP: 90.6%
- Onlay mesh 1.2%
- No mesh: 3.2%

#### Global recurrence rate: 4.6%

Recurrence rate at OUMP group: 4.1%

## Significant difference between



Recuirence (N - 20) and No recuirence group (N - 53		
Smoking	44 vs 24.5 %	(p=0.03)
BMI >35	26.9 vs 11.1 %	(p=0.04)
Neoplasia	3.8 vs 0.4 %	(p=0.02)
Rectus diastasis	40 vs 9.3 %	(p<0.001)
Epigastric hernia	23.7 vs 10.9 %	(p=0.01)
Operating time,		
minutes (SD)	$28 \pm 8.1 \text{ vs } 24.2 \pm 7.3$	(p=0.04)
Epigastric & umbilical		

15.4 vs 4.3 % (p=0.01)15.4 vs 1.9 % (p<0.001) 26.9 vs 10.4 % (p=0.009)



### **Conclusions**

An open underlay mesh placement is a safe technique for a primary ventral hernia repair with a low rate of recurrence without any significant difference between several variations in the surgical technique.