

## SUPPLEMENTARY MATERIAL

Healthcare resources	Unit costs (€)
<b>Medical visits</b> [1]	
<i>Primary care medical visit</i>	23.19
<i>Emergency room visit</i>	117.53
<i>Specialist medical visit*</i>	92.00
<b>Hospitalization (one day)</b> [1]	420.90
<b>Supplementary tests</b> [1]	
<i>Laboratory tests</i>	22.30
<i>Conventional radiology</i>	18.50
<i>Diagnostic/therapeutic tests</i>	37.12
<b>Pharmaceutical prescription</b>	Public Retail Price + VAT
<b>Indirect costs</b>	
<i>Cost per workday lost</i> [2]	101.21

**Table S1.** Description of unit costs

\*Only in pulmonology, cardiology, and internal medicine services

Source of health resources: hospital in-house accounting [1] and INE, Instituto Nacional de Estadística [2]

VAT, value added tax

## References

1. Sicras-Mainar A, Capel M, Navarro-Artieda R, Nuevo J, Orellana M, Resler G. Real-life retrospective observational study to determine the prevalence and economic burden of severe asthma in Spain. *J Med Econ* 2020; 23: 492-500.
2. Instituto Nacional de Estadística. Encuesta anual de coste laboral. EACL. Año 2018. [https://www.ine.es/prensa/eacl\\_2018.pdf](https://www.ine.es/prensa/eacl_2018.pdf). Accessed February 8, 2021.

**Table S2.** Total costs (EUR) according to overuse and recommended use of SABA and recommended use and underuse of ICS with or without exacerbations by study groups.

Values expressed as mean (SD, standard deviation).

Classification	SABA		ICS		Exacerbations	
	Recommended use	Overuse	Recommended use	Under use	Without exacerbations	With exacerbations
<b>GINA - 1</b>	€ 1,204 (2,130)	€ 4,708 (3,169)	---	---	€ 638 (1,620)	€ 4,294 (2,954)
<b>GINA - 2</b>	€ 1,689 (2,560)	€ 5,248 (3,587)	€ 1,706 (2,590)	€ 3,108 (3,725)	€ 1,015 (2,001)	€ 4,784 (3,283)
<b>GINA - 3</b>	€ 1,916 (2,448)	€ 5,381 (3,345)	€ 2,608 (3,084)	€ 4,255 (2,885)	€ 1,139 (1,919)	€ 4,901 (2,014)
<b>GINA - 4</b>	€ 2,304 (2,589)	€ 6,200 (3,406)	€ 3,294 (3,395)	€ 5,102 (3,541)	€ 1,487 (1,907)	€ 5,765 (3,273)
<b>GINA - 5</b>	€ 2,849 (2,625)	€ 6,973 (4,150)	€ 4,617 (3,788)	€ 6,024 (4,808)	€ 2,150 (1,861)	€ 6,676 (4,059)
<b>Total</b>	€ 1,916 (2,495)	€ 5,702 (3,542)	€ 2,903 (3,255)	€ 4,116 (3,446)	€ 1,177 (1,911)	€ 5,233 (3,295)

**EUR**, Euro; **GINA**, global Initiative for Asthma; **ICS**, inhaled corticosteroids; **SABA**, short acting beta-2 agonists.