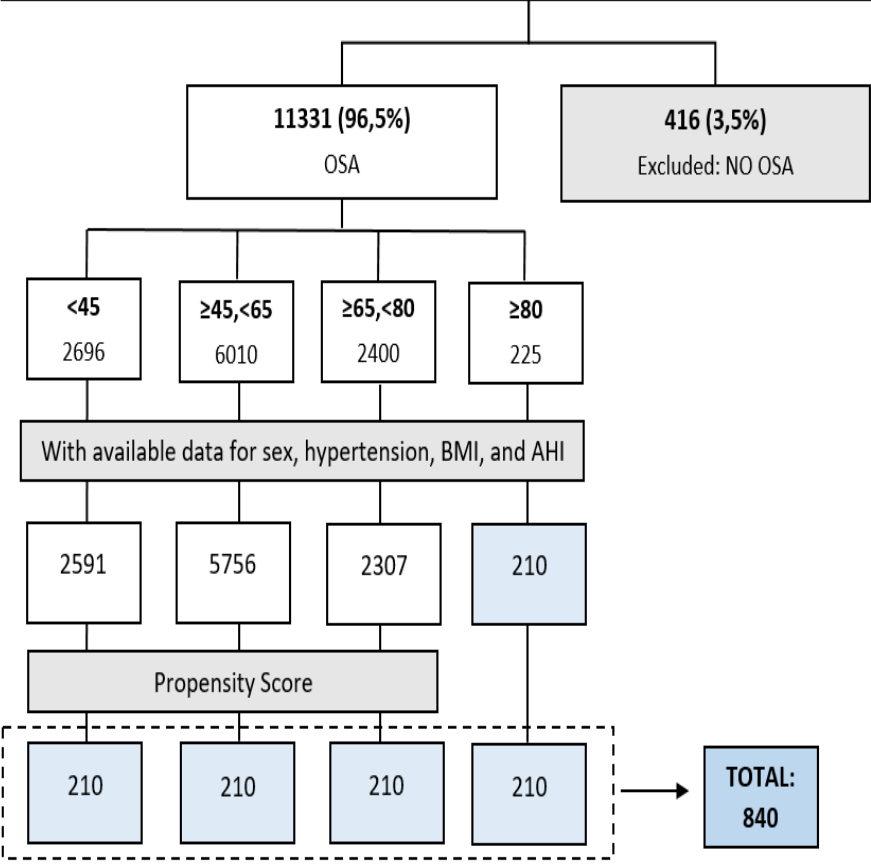
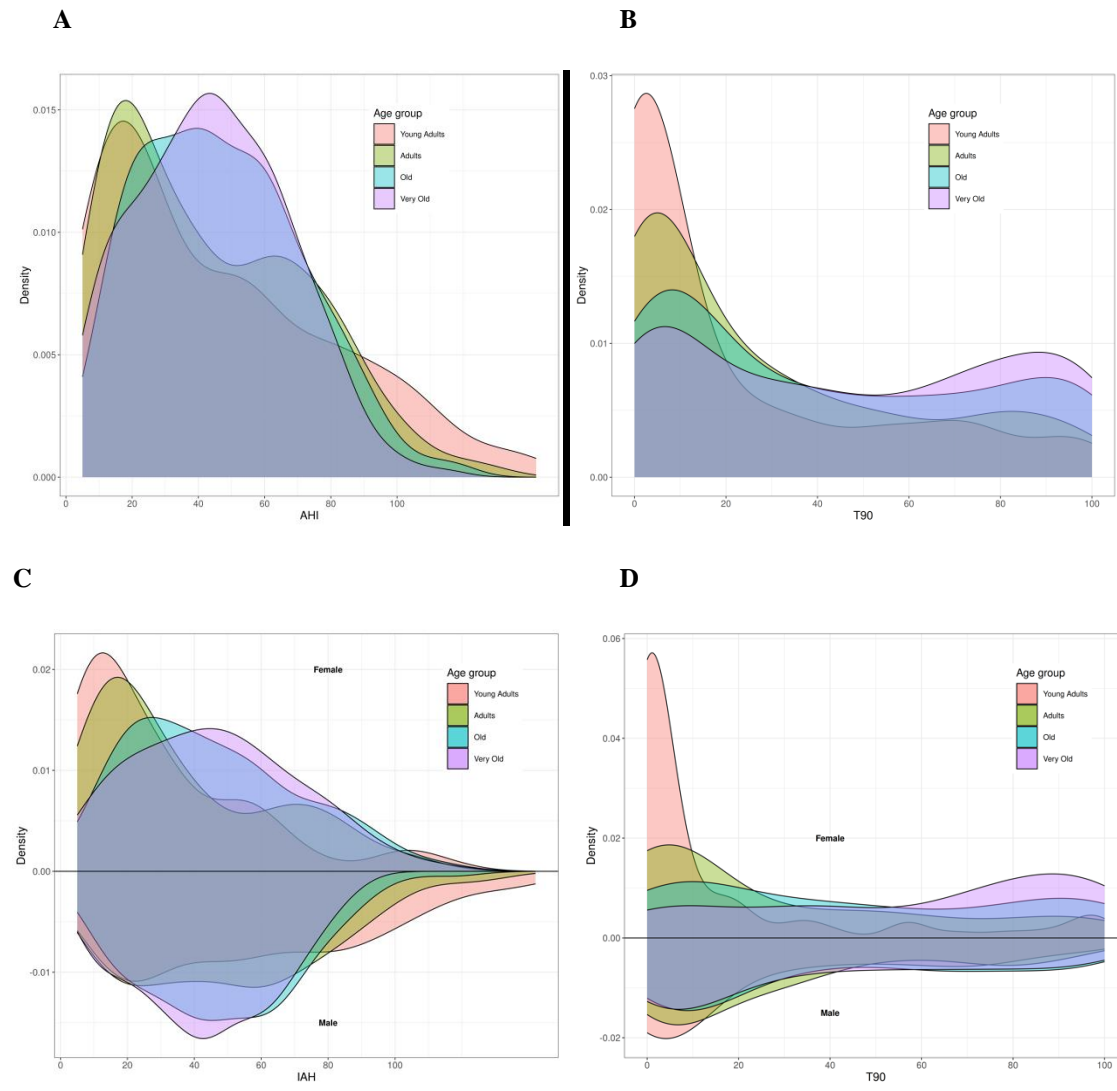


11.747 participants
that underwent RP o PSG in the Clinical Sleep Unit of Albacete between 24/4/1989 and 6/7/2021

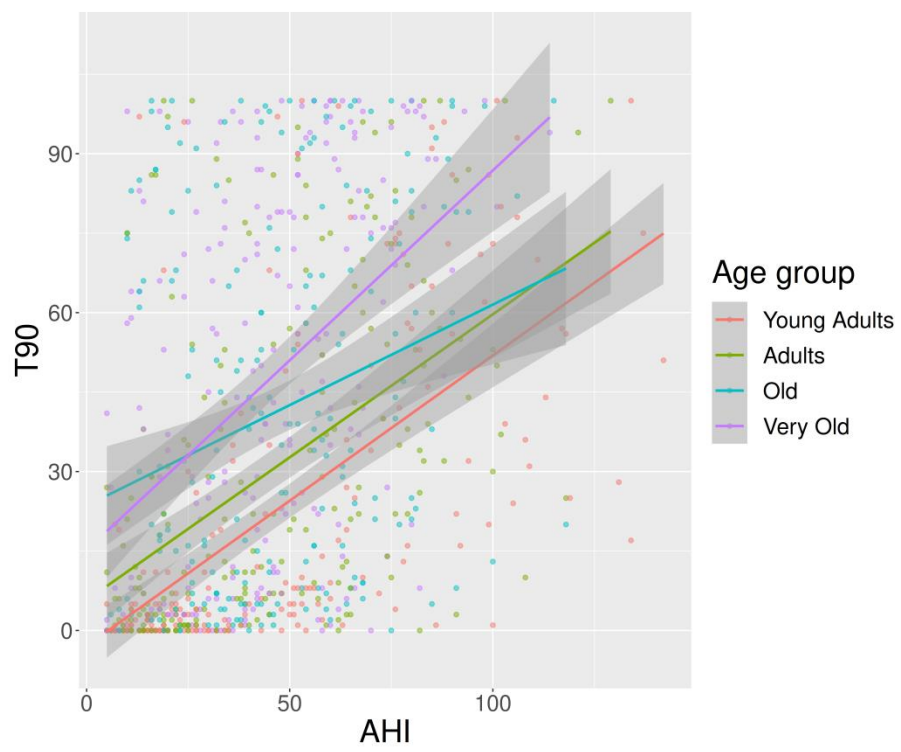


Supplementary Figure 1. Study flowchart and propensity score matching



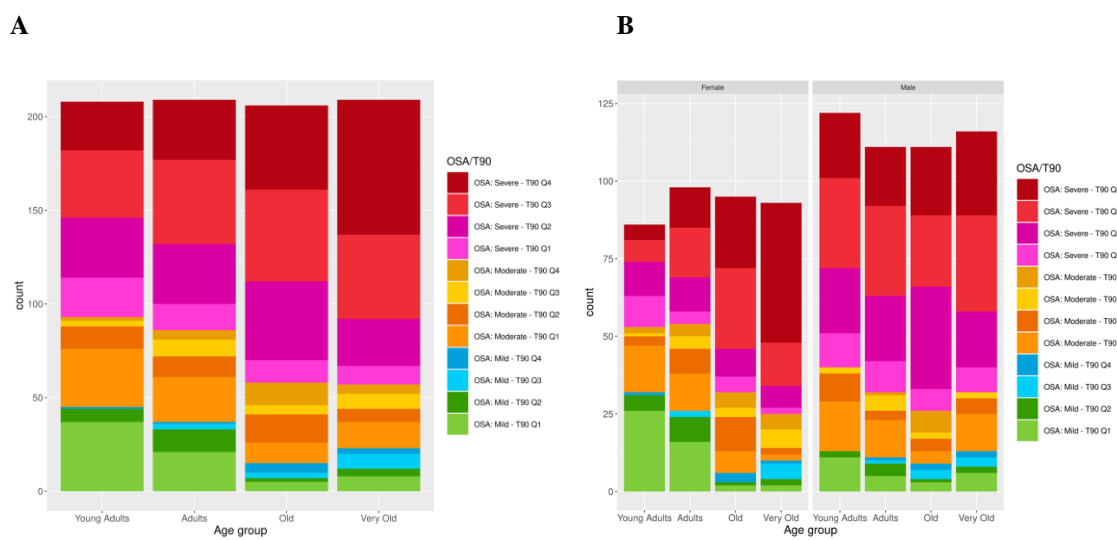
Supplementary Figure 2. Density plots showing the distribution of AHI (A) and T90 (B) per age group in the complete sample and by sex (C, D)

AHI: Apnea-hypopnea index; T90: Total sleep time spent with oxygen saturation < 90%. Q: Quartile



Supplementary Figure 3. Linear relationship between AHI and T90 per study group

AHI: Apnea-hypopnea index; T90: Total sleep time spent with oxygen saturation < 90%. Q: Quartile



Supplementary Figure 4. Stacked bar chart showing OSA severity and T90 quartiles per each age group. Each primary bar (OSA severity) is comprised of a number of sub-bars, each one corresponding to quartiles of T90. Complete sample (A) and by sex (B)

OSA: Obstructive sleep apnea; T90: Total sleep time spent with oxygen saturation < 90%. Q: Quartile

Supplementary Table 1. Characteristics of participants, comorbidities and oxygen parameters.

	<i>Total</i>		<i>Match</i>					<i>p</i>	
			<i>Total Match</i>		<i>Young adults (< 45)</i>	<i>Adults ≥45, <65</i>	<i>Old ≥65, < 80</i>		<i>Very Old ≥80</i>
<i>n</i>	11331		840		210	210	210	210	x
	<i>n valid</i>	<i>value</i>	<i>n valid</i>	<i>value</i>					
Age	11331	54 (45-64)	840	65 (44-80)	40 (37-42)	54 (51-60)	71 (68-74)	82 (80-83)	x
Gender	11 331		840						<i>p</i> =0.66
<i>Male</i>		8377 (73.9%)		467 (55.6%)	124 (59%)	112 (53%)	114 (54%)	117 (56%)	
<i>Female</i>		2954 (26.1%)		373 (44.4%)	86 (41%)	98 (47%)	96 (46%)	93 (44%)	
Hypertension	11246		840						<i>p</i> =0.228
<i>Yes</i>		4022 (35.8%)		503 (59.9%)	119 (56.7%)	121 (58%)	138 (66%)	125 (60%)	
<i>No</i>		7224 (64.2%)		337 (40.1%)	91 (43.3%)	89 (42%)	72 (34%)	85 (50%)	
Diabetes	11246		840						<i>p</i> <0.001
<i>Yes</i>		1234 (11%)		138 (16.4%)	13 (6.2%)	28 (13%)	57 (27%)	40 (19%)	
<i>No</i>		10012 (89%)		702 (83.6%)	197 (93.8%)	182 (87%)	153 (73%)	170 (81%)	
Dyslipidemia	11246		840						<i>p</i> =0.005
<i>Yes</i>		2424 (21.6%)		240 (28.6%)	44 (21%)	62 (30%)	77 (37%)	57 (27%)	
<i>No</i>		8822 (78.4%)		600 (71.4%)	166 (79%)	148 (70%)	133 (63%)	153 (73%)	
BMI	10865	31 (28-36)	840	32 (29-36)	31.1 (27-37)	31.6 (29-35)	32 (29-36)	31.4(29-35)	<i>p</i> =0.825
Ischemic heart disease	11657		839						<i>p</i> <0.001
<i>Yes</i>		7037 (6.0%)		84 (10%)	8 (3.8%)	8 (3.8%)	34 (16.2%)	34 (16.2%)	
<i>No</i>		10954 (94.0%)		775 (90%)	201 (96.2%)	202 (96.2%)	176 (83.8%)	176 (83.8%)	
Stroke	11657		839						<i>p</i> =0.006
<i>Yes</i>		546 (4.7%)		66 (7.3%)	3 (1.4%)	9 (4.3%)	24 (11.4%)	30 (14.3%)	
<i>No</i>		11111 (95.3%)		773 (92.1%)	206 (98.6%)	201 (95.7%)	186 (88.6%)	180 (85.7%)	
Epworth	10831	12 (8-15)	813	12 (8-15)	13 (8-15)	12(8-15)	12 (9-15)	12 (8-15)	<i>p</i> =0.089
AHI	11331	37 (19-62)	840	42 (21-64)	36 (17-70)	38 (19-65)	45 (26-63)	43 (27-60)	<i>p</i> =0.168
Baseline median SaO₂	10596	96 (94-96)	795	95 (93-96)	96 (95-97)	95 (94-96)	94 (92-96)	94 (91-95)	<i>p</i> <0.001
RP mean SaO₂	11198	92 (90-93)	833	91 (88-93)	93 (90-94)	92 (90-93)	90 (88-92)	89 (86-92)	<i>p</i> <0.001
RP minimum SaO₂	10602	78 (68-84)	796	76 (64-82)	79 (69-86)	78 (69-82)	72 (61-81)	75 (59-80)	<i>p</i> <0.001
T90 (%)	11176	12 (2-46)	832	22 (3-66)	5 (0-36)	15 (3-53)	34 (7-74)	44 (8-80)	<i>p</i> <0.001

All data are medians or number of participants(%).BMI:body mass index;RP:Respiratory polygraphy/polysomnography;AHI:Apnea-hypopnea index;sao₂;Oxygen saturation(%);T90:total sleep time spent with sao₂<90%