

## **Supplementary data**

## **Independent association between severe obstructive sleep apnoea and liver stiffness**

Wojciech Trzepizur<sup>1,2</sup>, Jérôme Boursier<sup>3,4</sup>, Marc Le Vaillant<sup>5</sup>, Pierre-Henri Ducluzeau<sup>6</sup>, Séverine Dubois<sup>7,2</sup>, Samir Henni<sup>8,9</sup>, Pierre Abraham<sup>8,9</sup>, Christophe Aubé<sup>10,4</sup>, Paul Calès<sup>3,4</sup>, Frédéric Gagnadoux<sup>1,2</sup>, on the behalf of the METABOL group.

<sup>1</sup> Département de Pneumologie, Centre Hospitalier Universitaire, Angers, France

<sup>2</sup> INSERM UMR 1063, Université d'Angers, France

<sup>3</sup> Département d'Hépto-Gastro-Entérologie Centre Hospitalier Universitaire, Angers, France

<sup>4</sup> HIFIH, EA3859, Université d'Angers, Angers, France

<sup>5</sup> Institut de Recherche en Santé Respiratoire des Pays de la Loire, Beaucouzé, France.

<sup>6</sup> Unité d'Endocrinologie-Diabétologie-Nutrition, Pole de Médecine, Centre Hospitalier Universitaire, Tours, France

<sup>7</sup> Département d'Endocrinologie, Diabétologie et Nutrition, Centre Hospitalier Universitaire, Angers, France

<sup>8</sup> Département de Médecine du Sport et Explorations Fonctionnelles Vasculaires, Centre Hospitalier Universitaire, Angers, France

<sup>9</sup> Institut MITOVASC, UMR CNRS 6015, INSERM 1083, Université d'Angers, Angers, France

<sup>10</sup> Département de Radiologie, Centre Hospitalier Universitaire, Angers, France

**Table S1: Unadjusted and adjusted odds ratios for having a liver stiffness measurement (LSM)≥9.6 kPa according to the severity of obstructive sleep apnoea and hypoxemia during sleep.**

Variables	Unadjusted OR (95% CI)	Adjusted OR (95% CI)		
		Model 1	Model 2	Model 3
AHI, n				
<30	1	1	1	1
≥30	4.08 (1.20-13.88)	4.73 (1.17-19.06)	4.04 (1.11-14.68)	4.73 (1.25-17.88)
ODI, n				
<19	1	1	1	1
≥19	3.63 (1.07-12.33)	5.17 (1.08-24.78)	3.61 (0.95-13.74)	4.79 (1.18-19.54)
T90, %				
<2	1	1	1	1
≥2	1.67 (0.53 – 5.31)	1.54 (0.39-6.02)	1.32 (0.38-4.61)	1.49 (0.42-5.25)

Abbreviations: AHI, apnea-hypopnea index; ODI, oxygen desaturation index; T90, sleep time with oxygen saturation <90%

Model 1: adjusted for age, gender, waist circumference, diabetes and hypertension

Model 2: adjusted for age, gender and metabolic syndrome

Model 3: adjusted for age, gender, metabolic syndrome and homeostasis model assessment of insulin resistance