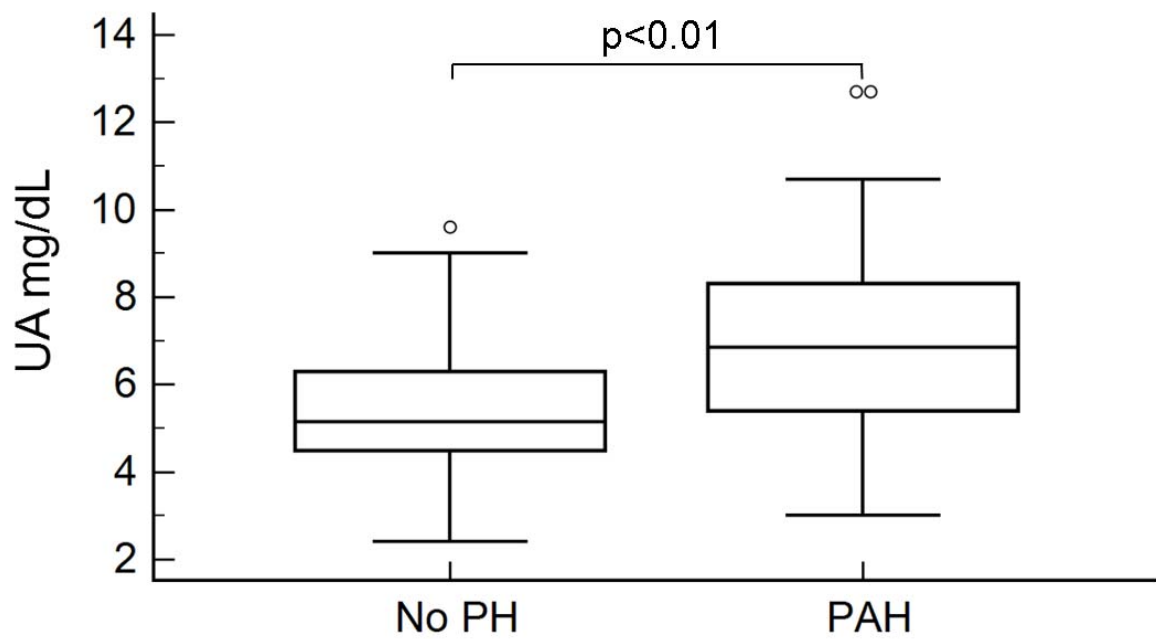


## Figure Legend

**Supplemental Figure 1.** Box and whisker plot demonstrating differences in UA levels in subjects with PAH versus those with no PH. Boxes represent interquartile range (IQR) and horizontal lines represent medians (6.9 mg/dL for PAH and 5.2 mg/dL for no PH). Whiskers represent closest values within 1.5 times the IQR. Dots represent individual measurements exceeding the values represented by the whiskers.



Supplemental Figure 1.

**Supplemental Table 1. Characteristics of Subjects with PH by WHO Grouping**

	<b>Group I (n=82)</b>	<b>Group 2 (n=12)</b>	<b>Group 3 (n=17)</b>
<b>Age, years</b>	62 (13)	66 (9)	61 (9)
<b>Sex (%female)</b>	80	75	88
<b>Race (%white)</b>	62	99	62
<b>BMI, kg/m<sup>2</sup></b>	27 (6)	30 (9)	29 (6)
<b>WHO FC (I+II versus III+IV %)</b>	39/61	58/42	47/53
<b>6MWD, m</b>	336 (99)	345 (98)	285 (140)
<b>eGFR, mL/min</b>	74 (29)	76 (30)	85 (26)
<b>Median UA, mg/dL, (IQR)</b>	6.8 (2.7)	6.5 (2.0)	5.4 (3.5)
<b>Median NT-proBNP pg/dL (IQR)</b>	515 (213-1663)	360 (185-693)	130 (82-266)
<b>RAP, mmHg</b>	7 (4)	8 (4)	5 (3)
<b>meanPAP, mmHg</b>	38 (11)	34 (6)	32 (9)
<b>PCWP, mmHg</b>	10 (3)	18 (3)	10 (4)
<b>CO, L/min</b>	4.8 (1.6)	5.7 (2.7)	5.5 (1.4)
<b>CI, L/min/m<sup>2</sup></b>	2.7 (0.9)	3.0 (1.0)	2.9 (0.6)
<b>PVR, Wood units</b>	6.8 (4.9)	3.0 (1.5)	4.3 (2.4)
<b>FVC % predicted</b>	84 (17)	76 (17)	60 (19)
<b>FEV<sub>1</sub> % predicted</b>	79 (16)	74 (16)	60 (19)
<b>FEV1/FVC %</b>	75 (12)	73 (7)	78 (9)
<b>DLCO % predicted</b>	53 (15)	71 (29)	49 (20)
<b>Deaths, n (%)</b>	48 (59)	6 (50)	8 (47)

Definition of abbreviations: BMI=body mass index; WHO FC= World Health Organization Functional Class; 6MWD= six minute walk distance; eGFR=estimated glomerular filtration rate; UA=uric acid; RAP=right atrial pressure; meanPAP= mean pulmonary arterial pressure; PCWP= pulmonary capillary wedge pressure; CO= cardiac output; CI= cardiac index; PVR= pulmonary vascular resistance; FVC: forced vital capacity; FEV1: forced expiratory volume in 1 second; DLCO: diffusing capacity for carbon monoxide.  
All values reported as mean (SD) unless otherwise specified. IQR: interquartile range.

**Supplemental Table 2. Logistic Regression Models and Corresponding Receiver Operating Characteristics for Noninvasive Markers of PAH**

<b>Diagnostic Markers</b>	<b>Univariable logistic regression models</b>	<b>Multivariable logistic regression model</b>		
	<b>ROC AUC (95% CI)</b>	<b>Coefficient (95% CI)</b>	<b>p-value</b>	<b>*ROC AUC (95% CI)</b>
<b>NT-proBNP, pg/dL</b>	0.721 (0.629-0.801)	0.001 (0.00-0.002)	0.0474	
<b>DLCO, % predicted</b>	0.721 (0.633-0.797)	-0.045 (-0.020- -0.070)	0.0005	

<b>UA, mg/dL</b>	0.725 (0.641-0.799)	0.332 (0.028-0.636)	0.0321	**0.844 (0.761-0.906)
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Definition of abbreviations: ROC AUC: receiver operating characteristics area under the curve; CI: confidence interval; DLCO: diffusing capacity for carbon monoxide; BNP: brain natriuretic peptide; UA: uric acid.  
\*ROC AUC is for full multivariable logistic regression model, which includes all 3 markers.  
\*\*AUC 0.844 is significantly greater than AUC for each individual marker, p<0.05.

**Supplemental Table 3. Univariable Cox Proportional Hazard Ratios for Survival**

	<b>Overall Cohort HR (95% CI, p value)</b>	<b>PAH Subgroup HR (95% CI, p value)</b>
<b>Age, years</b>	1.03 (1.01-1.05, <0.01)	1.01 (0.99-1.04, 0.28)
<b>Sex (female)</b>	1.13 (0.64-2.00, 0.67)	1.02 (0.47-2.20, 0.96)
<b>WHO FC (III,IV vs I,II)</b>	1.70 (1.07-2.71, <0.05)	1.22 (0.66-2.27, 0.52)
<b>6MWD, m</b>	0.999 (0.998-0.999, <0.01)	0.999 (0.998-1.00, 0.26)
<b>NT-proBNP, pg/dL (log<sub>10</sub>)</b>	2.93 (1.85-4.64, <0.01)	2.13 (1.13-4.05, <0.05)
<b>DLCO % predicted</b>	0.98 (0.97-0.99, <0.01)	0.97 (0.95-0.99, <0.05)

<b>RAP, mmHg</b>	1.02 (0.96-1.09, 0.45)	0.99 (0.91-1.07, 0.75)
<b>meanPAP, mmHg</b>	1.03 (1.02-1.05, <0.01)	1.02 (1.00-1.05, <0.05)
<b>PCWP, mmHg</b>	0.99 (0.94-1.05, 0.87)	0.94 (0.86-1.03, 0.17)
<b>CO, L/min</b>	0.87 (0.74-1.02, 0.09)	0.88 (0.73-1.06, 0.18)
<b>CI, L/min/m<sup>2</sup></b>	0.88 (0.64-1.22, 0.44)	0.88 (0.60-1.29, 0.51)
<b>PVR, Wood units</b>	1.08 (1.04-1.12, <0.01)	1.05 (1.00-1.11, 0.06)
<b>UA, mg/dL</b>	1.14 (1.02-1.28, <0.05)	1.10 (0.95-1.27, 0.20)
<b>UA&gt;6.3mg/dL</b>	1.77 (1.12-2.80, <0.05)	1.68 (0.89-3.15, 0.11)

Definition of abbreviations: WHO FC: World Health organization functional class; 6MWD: six minute walk distance; DLCO: diffusing capacity for carbon monoxide; BNP: brain natriuretic peptide; RAP=right atrial pressure; meanPAP= mean pulmonary arterial pressure; PCWP= pulmonary capillary wedge pressure; CO= cardiac output; CI= cardiac index; PVR= pulmonary vascular resistance; UA: uric acid