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Demographic data for urinary Acute Kidney Injury (AKI) marker [IGFBP7]·[TIMP2] reference range determinations.

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Data in Brief





Data Article

Demographic data for urinary Acute Kidney Injury (AKI) marker [IGFBP7] · [TIMP2] reference range determinations

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Tissue inhibitor of metalloproteinases-2

ABSTRACT

This data in brief describes characteristics of chronic stable comorbid patients who were included in reference range studies of [IGFBP7] · [TIMP-2] "Reference Intervals of Urinary Acute Kidney Injury (AKI) Markers [IGFBP7] · [TIMP2] in Apparently Healthy Subjects and Chronic Comorbid Subjects without AKI" [1]. In order to determine the specificity of [IGFBP7] · [TIMP-2] for identifying patients at risk of developing AKI we studied a cohort with nine broad classification of disease who did not have AKI. Details regarding the population that was targeted for inclusion in the study are also described. Finally, we present data on the inclusion criteria for the healthy subjects used in this investigation to determine the reference range.

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Specifications table

Subject area Healthcare

More specific sub- Acute kidney injury

ject area

Type of data Tables

How data was List of patient characteristics

acquired

Data format Tables

Experimental Healthy subjects and chronic comorbid subjects without acute kidney injury

factors

Experimental Design of experiments reflect US patient characteristics

features

Data source Subjects recruited from Rochester, NY; Dallas, TX; Gresham, OR; Springfield, MO;

location Layton, UT; Peoria, AZ
Data accessibility Data are with this article

Value of the data

- The data described allow other researchers to understand the patient cohort we used to determine the specificity of the AKI biomarkers [IGFBP7] · [TIMP-2] in the setting of stable chronic comorbid conditions.
- We included patients with cardiovascular, respiratory, gastrointestinal, renal, muscular skeletal, endocrine, and neuromuscular disease in the stable chronic comorbid condition cohort who did not have AKI, which serves as a model for future studies.
- We describe inclusion criteria for a healthy reference range population that can also be used for future studies evaluating biomarkers of AKI.

1. Data

The data described provide details on the conditions and numbers of subjects evaluated who did not have AKI but did have other chronic stable comorbid conditions that were used to demonstrate the specificity of these biomarkers for AKI. We also describe the targeted patient population and the inclusion criteria that were used to determine the reference range of [IGFBP7] · [TIMP-2] in healthy individuals.

2. Experimental design, materials and methods

The reference range study was designed to include patients commonly seen in intensive care units of hospitals in the United States [2]. The list of patients with chronic stable comorbid conditions is presented in Table 1. Table 2 gives a description of patient demographics that were targeted for inclusion. Table 3 provides detailed inclusion criteria used to select the healthy reference range population.

The protocols for this investigation were approved by investigational review boards/ethics committees as required by each participating institution. All subjects provided written informed consent. Subjects of ≥ 21 years age, who provided written informed consent for the study participation, and met the morbidity criteria (Table 1) were selected in the stable chronic morbidity cohort. For

Table 1 Medical conditions for chronic stable morbidity cohort (N=372).

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Neuromuscular disease 19 (5.1) Stroke 0 (0.0) Seizures 3 (0.8) Migraines 25 (6.7) Any immune disorder 21 (5.6) Rheumatoid arthritis 16 (4.3)	Any neurological	41	(11.0)
Stroke 0 (0.0) Seizures 3 (0.8) Migraines 25 (6.7) Any immune disorder 21 (5.6) Rheumatoid arthritis 16 (4.3)			
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Migraines 25 (6.7) Any immune disorder Rheumatoid arthritis 21 (5.6) (4.3) (4.3)			
Rheumatoid arthritis 16 (4.3)			
Rheumatoid arthritis 16 (4.3)	Any immune disorder	21	(5.6)
		16	
	Immunocompromised	4	(1.1)

Table 1 (continued)

Medical condition	N	%
Lupus	2	(0.5)
AIDS	0	(0.0)
Other conditions	214	(57.5)
Coagulation abnormality	4	(1.1)
Organ transplant	0	(0.0)
Trauma	0	(0.0)
Surgeries	0	(0.0)
ВРН	38	(21.0)
Psoriasis	8	(2.2)
Drug Abuse	5	(1.3)
Any Other	189	(50.8)
Cancer	9	(2.4)
Any metastatic cancer	1	(0.3)
Active cancer	5	(1.3)
Cured/In remission	3	(0.8)

CAD, coronary artery disease; CHF, congestive heart failure; MI, myocardial infarction; PVD, peripheral vascular disease; COPD, chronic obstructive pulmonary disease; IBD, inflammatory bowel disease; GI, gastrointestinal; AIDS, acquired immunodeficiency syndrome; and BPH, benign prostatic hypertrophy.

Table 2The following percent distribution for age, race, ethnicity and gender was targeted during selection of participants. This distribution was targeted to reflect the general demographic data for United States intensive care units.

	Percentage of total enrollment (%)
Age range (years)	
< 46	12
46-55	16
56-65	20
66–75	26
> 75	26
Race	
Black	14
White	72
American Indian/Alaskan	1
Other	13
Ethnicity	
Hispanic/Latino	9
Not Hispanic Latino	91
Gender	
Female	50
Male	50

apparently healthy subjects, individuals of \geq 21 years of age, who provided written informed consent for study participation, and met the healthy criteria (Table 2), were selected for this cohort.

The patients were recruited at 6 geographically diverse sites (Rochester, NY; Dallas, TX; Gresham, OR; Springfield, MO; Layton, UT; Peoria, AZ). In the stable chronic comorbid cohort most patients had several comorbidities, with the most prevalent being some type of an endocrine or cardiovascular

Table 3

List of apparently healthy subject criteria.

A subject was deemed apparently healthy, if he or she was ≥ 21 years of age, did not have any chronic, stable morbid conditions (see Table 1), and met all following criteria:

- 1. Subject without any known or suspected acute illness or condition-including acute infections at the time of enrollment or within the previous 30 days
- 2. Subject without any new onset or unstable morbidities listed under "Chronic, stable morbid conditions"
- 3. Subject without any trauma-related surgery within the last 6 months
- 4. Subject without any surgery, hospitalization or institutionalization (such as in a nursing home) during the previous 3 months
- 5. Subject did not receive any blood product transfusion within the previous 2 months
- 6. Subject who was not a pregnant woman or child
- 7. Subject was not prisoners or institutionalized individual
- 8. Subject who did not provide evaluable blood or urine samples for this study

disorder. In terms of specific comorbidities, as might be expected for the US population, the highest prevalence was hypertension (59.7%) with the other top four being hypercholesterolemia (40.1%), osteoarthritis (28.8%), and diabetes (24.5%).

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Appendix A. Supplementary material

Supplementary data associated with this article can be found in the online version at http://dx.doi. org/10.1016/i.dib.2015.10.036.

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