



References

[#27900 Human Titin N-Fragment Assay Kit - IBL-America](#)

No.	Field	Keywords	Published	Title
1	Heart disease	Cardiac surgery	2019	Urinary Titin Is Increased in Patients After Cardiac Surgery. Tanihata J et al. Front Cardiovasc Med. 2019 Feb 8;6:7.PMID: 30800662
2	Heart disease	Dilated cardiomyopathy	2018	Usefulness of Urinary N-Terminal Fragment of Titin to Predict Mortality in Dilated Cardiomyopathy. Yoshihisa A et al. Am J Cardiol. 2018 Feb 12. pii: S0002-9149(18)30192-9.PMID: 29523227
3	Liver disease	NAFLD	2019	Urinary Levels of Titin-N Fragment, a Skeletal Muscle Damage Marker, are Increased in Subjects with Nonalcoholic Fatty Liver Disease. Oshida N et al. Sci Rep. 2019 Dec 20;9(1):19498.PMID: 31862937
4	Gastrointestinal disease	Malignant tumor	2020	Urinary titin N-terminal fragment concentration is an indicator of preoperative sarcopenia and nutritional status in patients with gastrointestinal tract and hepatobiliary pancreatic malignancies. Miyoshi K et al. Nutrition. Nov-Dec 2020;79-80:110957.PMID:32866763
5	Emergency medical care	Rehabilitation & nutritional intervention	2021	Novel protocol combining physical and nutrition therapies, Intensive Goal-directed REhabilitation with Electrical muscle stimulation and Nutrition (IGREEN) care bundle. Nakano H et al. Crit Care. 2021 Dec 4;25(1):415. PMID:34863251
6	Emergency medical care	Food intervention	2021	Urinary Titin N-Fragment Evaluation in a Randomized Controlled Trial of Beta-Hydroxy-Beta-Methylbutyrate for Acute Mild Trauma in Older Adults. Nakano H et al. Nutrients. 2021 Mar 10;13(3):899. PMID: 33802012
7	Emergency medical care	Acute stroke	2020	Elevated Urinary Titin and its Associated Clinical Outcomes after Acute Stroke. Ishihara M et al. J Stroke Cerebrovasc Dis. 2020 Dec 23;30(3):105561.PMID: 33360523
8	Emergency medical care	ICU-AW	2021	Urinary Titin N-Fragment as a Biomarker of Muscle Atrophy, Intensive Care Unit-Acquired Weakness, and Possible Application for Post-Intensive Care Syndrome. Nakanishi N et al. J Clin Med. 2021 Feb 6;10(4):614.
9	Emergency medical care	ICU-AW	2020	Urine Titin N-fragment as a Biomarker of Muscle Injury for Critical Illness Myopathy. Nakano H et al. Am J Respir Crit Care Med. 2020 Oct 8.PMID: 33030965
10	Emergency medical care	ICU-AW	2020	Urinary Titin Is a Novel Biomarker for Muscle Atrophy in Nonsurgical Critically Ill Patients: A Two-Center, Prospective Observational Study. Nakanishi N et al. Crit Care Med. 2020 Sep;48(9):1327-1333.PMID: 32706557
11	Emergency medical care	ICU-AW	2020	Urine TITIN N-fragment as a Novel Biomarker for Critical Illness Myopathy: A Pilot Study. Hidehiko N et al. Crit Care. 2020 Apr 28;24(1):177.PMID: 32345334
12	Sports medicine	Muscle damage after a match	2021	Urinary N-Terminal Fragment of Titin Reflects Muscle Damage After a Soccer Match in Male Collegiate Soccer Players. Tanabe Y et al. J Strength Cond Res. 2021 Feb 1;35(2):360-365. PMID: 33337691
13	Sports medicine	Concentric and eccentric exercise	2020	Changes in Urinary Titin N-terminal Fragment Concentration after Concentric and Eccentric Exercise. Yamaguchi S et al. J Sports Sci Med. 2020 Feb 24;19(1):121-129. eCollection 2020 Mar.PMID: 32132835
14	Sports medicine	Repeated bout effect	2019	Changes in urinary titin N-terminal fragments as a biomarker of exercise-induced muscle damage in the repeated bout effect. Yamaguchi S et al. J Sci Med Sport. 2019 Dec 23. pii: S1440-2440(19)31246-0.PMID: 31928880
15	Neonatal care	Preterm birth	2021	Assessment of catabolic state in infants with the use of urinary titin N-fragment. Fukushima S et al. Pediatr Res. 2021 Jul 17. PMID: 34274960

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Immuno-Biological Laboratories, Inc.
 8201 Central Ave NE, Suite P
 Minneapolis, MN 55432

Toll-Free: 888-523-1246
 Email: info@IBL-America.com
 Web: www.IBL-America.com