

CiasLatex Mb



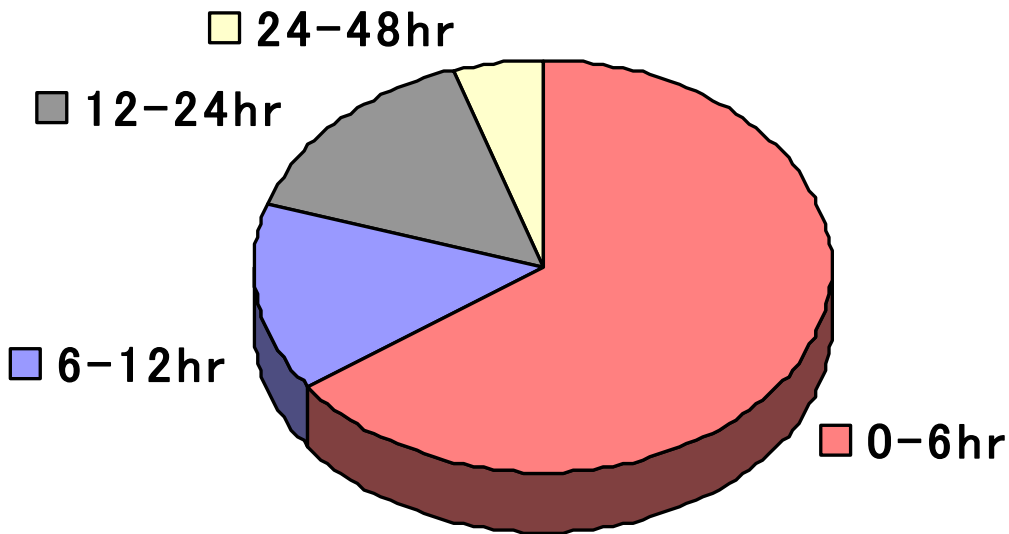
For AMI analysis (AMI : Acute Myocardial Infarction)



Characteristics

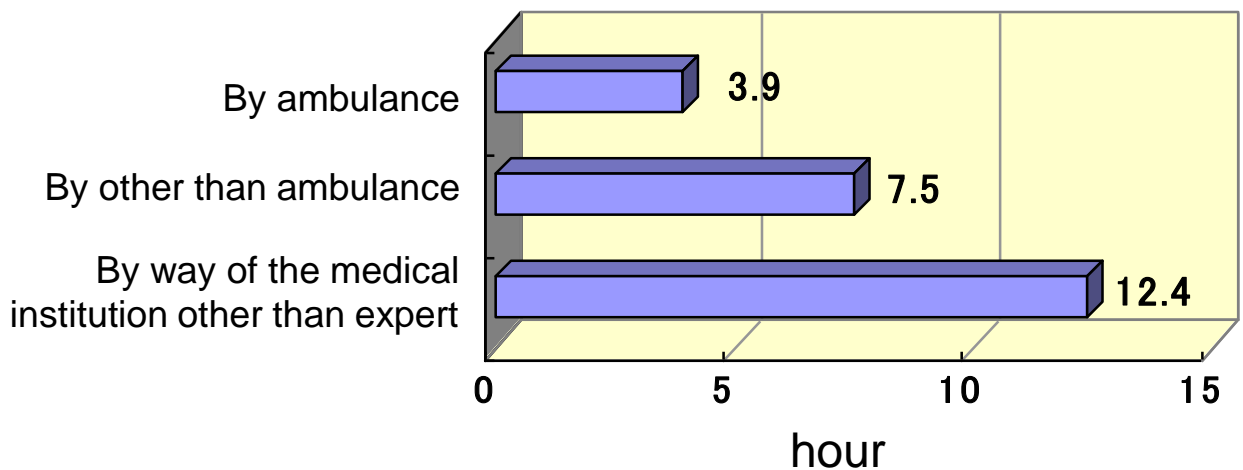
- The measurement principle is Latex turbidimetric immunoassay.
- No interference is observed by Human antimouse antibody(HAMA) since this is used Goat polyclonal antibody.
- It is useful as a super-acute phase marker of acute myocardial infarction (AMI).
- It is possible to be a more reliable diagnosis by Combining with CicaLiquid CK-MB.

Time to hospitalization from the onset of AMI



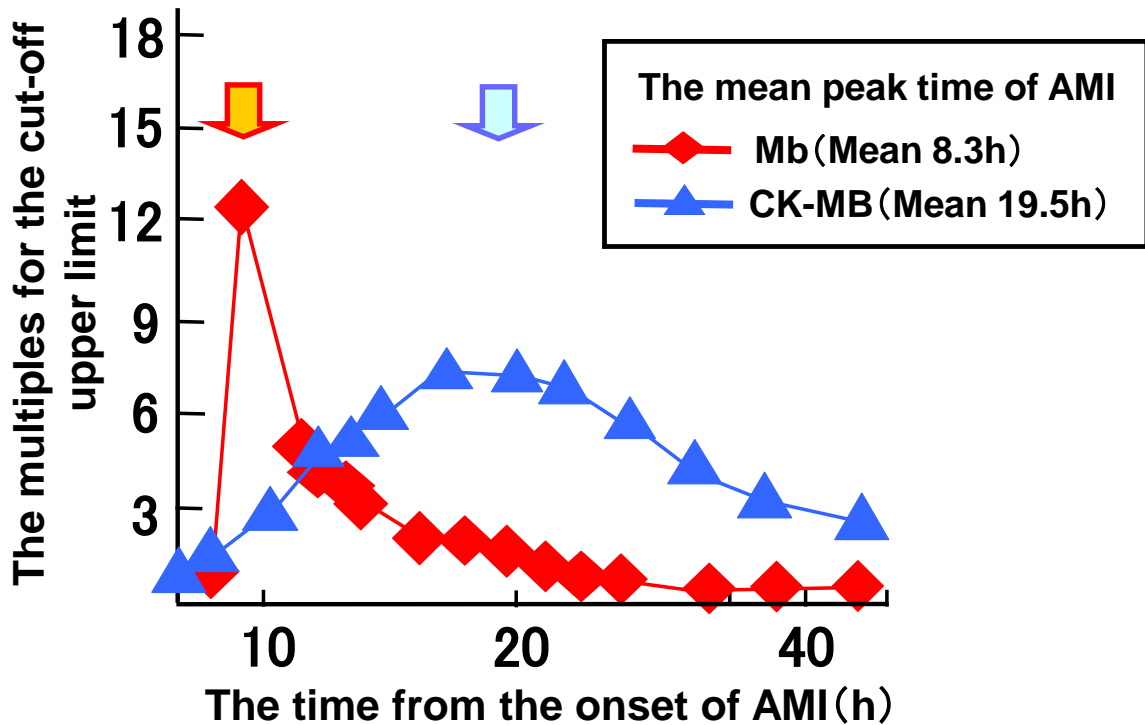
Ref. Miyagi Prefecture myocardial infarction measures Council '30 History

Relationship between the hospital visiting route and the time to treatment from the onset of AMI



Ref. Research of the Ministry of Health, Labour and Welfare research groups (The Asahi Shimbun Companyasahi.com 2010/8/7)

Temporal changes of each cardiac muscle marker



Mb and CK-MB in the ultra-acute phase of AMI

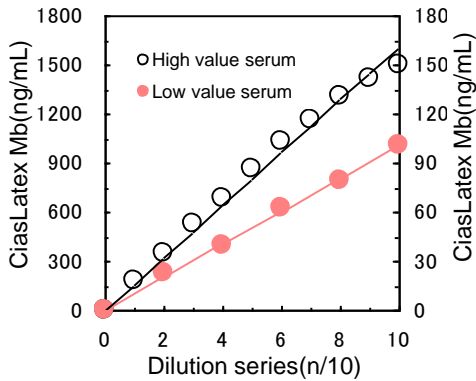
Marker	Sensitivity(Time from onset)			Specificity	Shortest detection time(hr)	Longest detection time(hr)	All cases positive time(hr)
	0 - 2(hr)	2 - 4(hr)	4 - 6(hr)				
CK	24%	40%	78%	78%	2-4hr later	24hr later	8-12hr later
CK-MB	24%	40%	70%	94%	2-4hr later	24hr later	8-12hr later
Mb	75%	83%	91%	70%	1-2hr later	24hr later	4-8hr later

Ref. Med Technol 2008. 36; 358-361. Table 2, 3

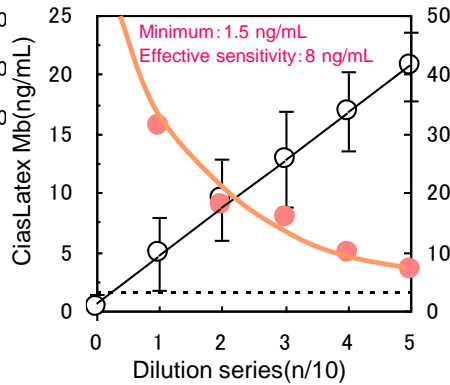
★ Points

- Myoglobin (Mb) will appear in the blood faster than CK and CK-MB after the onset of Acute myocardial infarction (AMI).
- Mb will be a valid marker if it is within 8 hours from the onset of AMI. If it is later, CK-MB will be a valid marker.
- If you do not know the time from the onset of AMI, it is possible to more reliable diagnosis by measuring Mb and CK-MB.

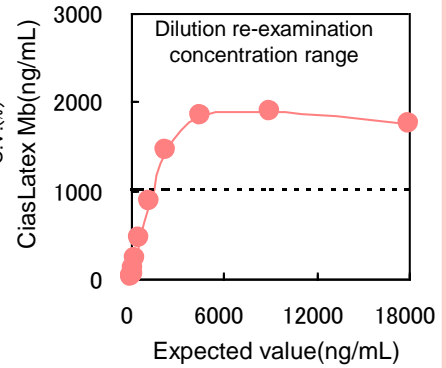
Linearly



Limit of detection



Zone phenomenon

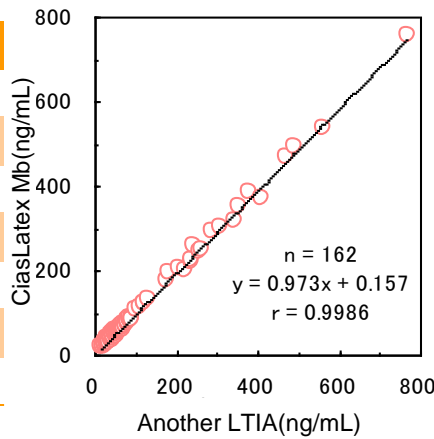


Within-run precision

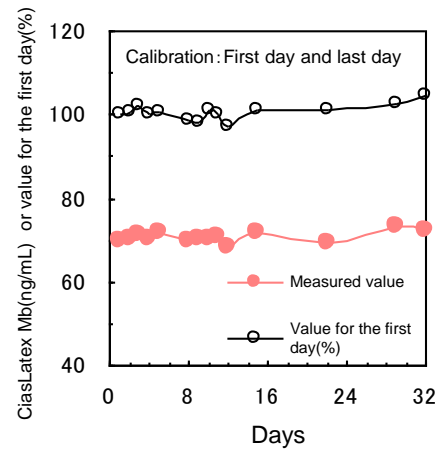
Sample	1	2	3	4
n	20	20	20	20
mean	25.93	65.26	163.38	293.28
max	28.4	67.9	168.4	301.9
min	22.9	62.8	156.0	284.0
range	5.5	5.1	12.4	17.9
SD	1.517	1.497	3.311	4.216
CV(%)	5.85	2.29	2.03	1.44

(Unit: ng/mL)

Correlation



Open stability



Product list

CODE	PRODUCT NAME	TYPE	CONTENTS	PACKAGE	STORAGE	EXPIRY
78204	CiasLatex Mb	S	Reagent 1	60mL × 1	2 - 8°C	1 year
			Reagent 2	10mL × 1		
78205	Mb Calibrator	S	Standard	1mL × 1 × 5conc.		
			Solvent	6mL × 1		
78206	Qualitrol MYO	S	Level 1	1mL × 5	Below -20°C	18 months
			Level 2	1mL × 5		

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