Dear editor,

Thank you very much for your comments and suggestions.

Those comments are all valuable andvery helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. Revised portion are marked in red in the paper. The main corrections in the paper and the responds to the reviewer's comments are as followings.

Responds to the reviewer's comments Reviewer #1:

1.Comment:Keywords: use MeSH keywords.

Response: Changed the keywords in the article using MeSH keywords.

2. Comment: The title of the study is not clear – add the type of study.

Response: Thank you for your valuable suggestion. In the broad sense of basic research, it is a more comprehensive understanding of phenomena and the discovery of new scientific research fields. The research title is designed based on the above definitions.

3.Comment: Make the abstract with sub-titles.

Response: Sub-titles added to abstract.

4.Comment: Mention the study design, study duration and study setting.

Response: This study combines the previous research of our team on the New Zealand white rabbit extension fixation contracture model, clinical extension type knee joint contracture model, and experimental design combined with the knee joint structure of rats. This study lasted for one year and five months from experimental design, fixed device design and production, experimental implementation, indicator testing, and article writing. The feeding and index detection of experimental animals were completed in the laboratory of the Second Affiliated Hospital of Anhui Medical University. The above content is described in the methods.

5.Comment: Mention the character of the rats.

Response: This experiment used male SD rats (8 weeks old, weighing 350g+). The rat has strong adaptability, and the male has a gentler personality than the female, with almost no active aggressive behavior. The above content is described in the methods.

6.Comment: Mention the treatment procedure in short.

Response: This experiment verifies the formation process of knee joint contracture in rats through different fixation times. When there is slight swelling during rat fixation, the tightness of the external fixation device will be adjusted in a timely manner, and no special treatment will be given for the rest.

7.Comment: Mention the statistical tests used for the study.

Response: In Article 2.9. Statistical Analysis, it is mentioned that the statistical test for this study is one-way ANOVA.

8.Comment: Mention the reports with 95% CI with upper and lower limits and its p score.

Response: The content is described in the main text, and statistical results are attached at the end of the response text.

9.Comment: The conclusion should be drawn on the basis of the study reports, not on an assumption.

Response: The revised conclusion is based on the measurement of the range of motion of the rat knee joint, the detection of the relevant fibrin in the knee joint Joint capsule and the knee joint muscle.

10.Comment: Mention in detail about knee extension contracture, its causes, adverse effects in human body.

Response: The first paragraph of the introduction provides a detailed introduction to the causes and adverse effects of knee extension contracture on the human body.

11.Comment: Mention the gaps monitored by the researcher in the previous studies.

Response: It is understood that this study is the first related study in a rat model of knee extension contracture. In previous preliminary experiments, only feasible rat knee joint fixation models were developed using different methods, and their formation mechanisms were not explored. Therefore, no gaps were found in monitoring.

12.Comment: Include the clinical significance of this study over clinicians, patients, and researchers.

Response: After the completion of the key contracture type, even if the model replicates the contracture caused by the patient's fixed joint in clinical practice, researchers can study the cause of joint contracture and establish new treatment methods. This model is a reliable tool for studying the prevention and treatment of knee joint extension contracture in rats, while making it possible to change the

dressing and keep the wound dry during the fixation of traumatic knee joint contracture. The above content is described in the discussion.

13.Comment: Mention the manufacture details of the splint used to immobilize the limb.

Response: After measuring the circumference of the lower limbs of rats, we designed a support as shown in the data in Figure 1A. The support was shaped using a wire cutting process, and a 0.5 inch thick sponge with the same shape as the support was pasted onto the support. Finally, the support was tightly attached to the lower limbs of rats for shaping and fixation. The specific fixation method is shown in Figure 1B. The above content is described in the methods.

14.Comment: Mention the outcome measures measured in the study and its reliability and validity.

Response: The outcome measures measured in the study and its reliability and validity are elaborated in the results.

15.Comment: The mentioned statistical tests are not apt to this study.

Response: In analysis of variance, a certain characteristic of the object to be examined is called an experimental indicator, which becomes a controllable factor affecting the experimental indicator. If only one factor changes in an experiment, it is called a single factor experiment. The factor of change between groups in this experiment is time, therefore single factor analysis of variance was used.

16.Comment: Present the reports with 95%CI with upper and lower limits for all outcome variables. 17. Mention the MCID and effect size of each variable.

Response: The statistical results are attached at the end of the response text.

18.Comment: Mention in detail and its mechanism how immobilization changes the outcome variables in these rats?

Response: The specific content is described in detail during the discussion.

19.Comment: The conclusion should be more concise and self-explanatory and drawn on the basis of study reports.

Response: Conclusion modification is consistent with the 9th comment requirement for modification.

Responds to the reviewer's comments Reviewer #1:

1. The Title should be more informative and its language should be corrected. Extension contracture or extending contracture? Following immobilization or in the conditions of external fixation? The authors did not report the state of extension contracture after the immobilization and they point to this fact in the discussion.

Response: Thank you for your valuable suggestion. The entire text will be standardized as extension contracture. As mentioned in the title, following immobilization is an extension type joint contracture caused by fixation of the lower limbs of rats in an extended position

2.Comment: Aim of the study is expressed incorrectly and is different from the aim in the Introduction. The study does not elucidate therapeutic points but it is stated about therapeutic strategies... But this is not the aim of this experimental model.

Response: According to your suggestion, the purpose of the modification is The study aimed to validate the formation process of knot extension contract.

3.Comment: Myogenic contracture progressed very quickly during the initial 2 weeks of immobilization; after 2 weeks, the contracture gradually changed from myogenic to arthrogenic. It means that the first disappears. Or myogenic alterations remain?

Response: As shown by the range of motion results, the progression of myogenic contracture was not significant after 2 weeks and was not statistically significant.

4.Comment: It is concluded that myogenic contracture is stabilized after 2 weeks of immobilization, while arthrogenic contracture is stabilized after 3 weeks of immobilization. The statement should be in past tense. This was found by this study.

Response: Thank you for your suggestion. The statement has been revised to the past tense.

5.Comment: In the abstract and throughout the text, many sentences that should be divided into several phrases are united though they state quite different notions. It is better to change them and put full stop instead of semicolon or comma, e.g. The study aimed to elucidate the formation process and therapeutic strategies of knee extension contracture, we developed a rat model using an aluminum external fixator.

Response: Thank you for your comment. Relevant Punctuation have been modified

6.Comment: Key words: the first two should be corrected.

Response: Changed the keywords in the article using MeSH keywords.

7.Comment: Line 45 The most common cause of knee contracture is prolonged immobilization, which is clinically used as an acute treatment for musculoskeletal disease to relieve knee pain and reduce inflammation. What about external fixation?

Response: The most common clinical fixation method is plaster or brace external fixation, which is closer to clinical fixation methods compared to other animal models of flexion knee joint external fixation.

8.Comment: Lines 46-53 A lot of repeated words. Rephrase please... Range of activity or range of motion?

Response: The relevant content of the entire text has been uniformly changed to range of motion.

9.Comment: Key words: the first two should be correctedLines 69-71 Two notions are in the same sentence It is critical to study knee extension contracture using appropriate animal models, different fixation methods, the length of the muscle during fixation affects different muscle changes. Further on, sentences should be divided into separate phrases and by full stop.

Response: Change the content to Different fixation methods have different effects on muscles.

10.Comment: Line 76 sounds ridiculous. The knee joint of rats is similar to that of human and is easy to obtain.

Response: Change the content to The structure of the knee joint of rats is similar to that of humans and is easier to obtain compared to other animals.

11.Comment: The aim was formulated too clumsy: In the present study, we aimed to explore the process of knee joint contracture formation during immobilization by creating a rat model of knee extension contracture by externally fixing the knee in a straightened position.

Response: Thank you for your valuable suggestion. We have followed your advice and changed it to We aimed to study the process of knee extension contracture formation during external fixation of the knee in a straightened position in a developed by us rat model.

12.Comment: I would omit the word establishment in point 2.1.

Response: I have deleted the word establishment in point 2.1.

13.Comment: Line 89 The fixed result evaluation ????? Figure 2 A shows a fixed picture????? Better: Results of applied fixation

Response: Thank you for your valuable suggestion. It has been changed to Figure 2 A shows results of applied fixation

14.Comment: Figure 1 (B) shows the fixed schematic??? Or diagram of fixation.

Response: Changed to The fixing device is shown in Figure 1 A and fixing schematic diagram is shown in Figure 1 B..

15.Comment: Line 112 The control group did not do any intervention (active or passive voice?). Was the knee fixed?

Response: The control group did not receive any intervention and did not fix the knee joint of the control group.

16.Comment: Line 120 The skin was separated, and the knee mobility was measured using the measurement device designed for this experiment. But line 124 says Knee mobility was measured after the separation of the muscles. Separated or removed?

Response: Joint contracture is divided into arthrogenic contracture and myogenic contracture. Different fixation durations cause different contractures, as described in line 120. First, separate the skin to measure the total contracture, then separate the muscles to measure arthrogenic contracture, and finally calculate muscle derived contracture according to the formula mentioned in line 145.

17.Comment: Line 131-132 What is cruzi needle?

Response: Expression error, The cruzi need changed to The kirschner wire.The kirschner wire is a commonly used internal fixation material in orthopedics.

18.Comment: Figure 3 is not schematic diagrams but photos.

Response: Corrected in the article.

19.Comment: 2.7. *Immunohistochemistry* is written like instructions. Please, change into the indicative mood.

Response: The content mentioned in the article has been changed to the indicative mood.

20.Comment: Figure 4 There are spelling mistakes.

Response: Sorry, the spelling error has been corrected.

21.Comment: What are muscle structure and joint structure? I think the the terms have been misused? It is better to use in the plural form. Joint structure includes everything the joint is composed of. May be it is better to use articular structures as the authors use the term arthrogenic contracture.

Response: Thank you for your valuable comment. It has been changed to use in the plural form.

22.Comment: It was stated that in this model, the ankle joint and the knee joint were inevitably fixed together. Because the lower limb of the rat is shaped like a cone, the ankle joint was plantarflexed at 60° and fixed with the knee joint to prevent slippage of the aluminum splint.Please, mind the knee was not fixed with the ankle but both the knee and ankle had to be fixed in this model.

Response: This experiment attempted to fix only the knee joint of rats. Due to the cone-shaped shape of the lower limbs of the rats, the brace that only fixed the knee joint was prone to slipping. Although the improved brace fixed the ankle joint, the brace rarely experienced slipping.

23.Comment: It is better to state that your study found not suggested.

Response: Following your comment, the conclusion has been changed and the suggested conclusion has been removed.

Number of families Number of comparisons per family Alpha	45 0.05							
Tukey's multiple comparisons test	Mean Diff. 43.93	95.00% CI of diff. -55.45 to 143.3	Significant?	Summary	Adjusted P Value 0.8999	A-B		
C vs. 2d C vs. 3d	86.33 106.9	-13.05 to 185.7 7.519 to 206.3	No Yes	ns +	0.14 0.0258	A-C A-D		
C vs. 1w C vs. 2w C vs. 3w	280 598 666.6	180.6 to 379.4 498.6 to 697.3 567.2 to 765.9	Yes Yes	****	<0.0001 <0.0001 <0.0001	A-E A-F A-G		
C vs. 4w C vs. 6w	688.8 723.4	589.4 to 788.2 624.0 to 822.8	Yes Yes		<0.0001 <0.0001	A-H A-I		
C vs. 8w 1d vs. 2d 1d vs. 3d	744 42.4 62.97	644.6 to 843.4 -56.98 to 141.8 -36.41 to 162.3	No No	0.5 0.5	-0.0001 0.9176 0.5379	B-C B-D		
1d vs. 1w 1d vs. 2w 1d vs. 2w	236.1 554 622.6	136.7 to 335.4 454.6 to 653.4 523.3 to 722.0	Yes Yes Yes	****	<0.0001 <0.0001	B-E B-F B-G		
1d vs. 4w 1d vs. 6w	644.9 679.5	545.5 to 744.2 580.1 to 778.8	Yes Yes	****	<0.0001 <0.0001	B-14 B-1		
ld vs. Bw 2d vs. 3d 2d vs. 1w	700.1 20.57 193.6	600.7 to 799.5 -78.81 to 119.9 94.27 to 293.0	No Yes	0.5 +++=	<0.0001 0.9995 <0.0001	C-D C-E		
2d vs. 2w 2d vs. 3w	511.6 580.2	412.2 to 611.0 480.9 to 679.6	Yes Yes	****	<0.0001 <0.0001	C-F C-G		
2d vs. 4w 2d vs. 6w 2d vs. Hw	637.1 657.7	537.7 to 736.4 558.3 to 757.1	Yes Yes	****	<0.0001 <0.0001 <0.0001	C-I C-J		
3d vs. 1w 3d vs. 2w	173.1 491.1	73.70 to 272.5 391.7 to 590.4	Yes	****	<0.0001 <0.0001	D-E D-F		
3d vs. 4w 3d vs. 6w	581.9 616.5	482.5 to 681.3 517.1 to 715.9	Yes	****	<0.0001 <0.0001	D-H D-I		
3d vs. 8w 1w vs. 2w	-637.1 318 386.6	537.7 to 736.5 218.6 to 417.3 287.2 to 486.0	Yes Yes Yes	****	<0.0001 <0.0001	D-J R-F R-G		
1w vs. 4w 1w vs. 6w	408.8	309.4 to 508.2 344.0 to 542.8	Yes Yes		<0.0001 <0.0001	12-14 12-1		
1w vs. sw 2w vs. 3w 2w vs. 4w	68.62 90.85	-30.76 to 168.0 -8.531 to 190.2	No No	DS DS	0.4159	P-G P-H		
2w vs. 6w 2w vs. 8w	125.5	26.07 to 224.8 46.69 to 245.4	Yes	**	0.0042	ISI ISJ		
3w vs. 4w 3w vs. 6w 3w vs. 8w	56.83 77.45	-42.55 to 156.2 -21.93 to 176.8	No No	ns ns	0.6735 0.2541	G-H G-I G-J		
4w vs. 6w 4w vs. 8w	34.6 55.22	-64.78 to 134.0	No No	0.5 0.5	0.9761	14-1 14-J		
Test details	20.62 Mean 1	-78.76 to 120.0	Nean Diff.	SE of diff.	n1	n2	e DF	
C vs. 1d C vs. 2d	4208 4208	4164 4122 4101	43.93	30.02	6	6 6	2.07 4.067	50 50
C vs. 1w C vs. 2w	4208	3928	280	30.02	6	6	13.19 28.17	50 50
C vs. 3w C vs. 4w C vs. 6w	4208 4208 4208	3541 3519 3485	666.6 688.8 723.4	30.02	6	6	31.4 32.45 34.08	50 50
C vs. flw 1d vs. 2d	4208 4164	3464 4122	744 42.4	30.02 30.02	6	6	35.05 1.997	50 50
ld vs. 3d ld vs. 1w ld vs. 2w	4164 4164	4101 3928 3610	62.97 236.1 554	30.02 30.02 30.02	6	6 6 6	2.966 11.12 26.1	50 50 50
1d vs. 3w 1d vs. 4w	4164 4164	3541 3519	622.6 644.9	30.02	6	6	29.33 30.38	50 50
Id vs. 5w Id vs. 8w 2d vs. 3d	4164 4164 4122	3485 3464 4101	700.1	30.02	6	6 6	32.98 0.9688	50 50
2d vs. 1w 2d vs. 2w 2d vs. 3w	4122	3928 3610	193.6	30.02 30.02	6	6	9.122 24.1 27.33	50 50
2d vs. 4w 2d vs. 6w	4122 4122 4122	3541 3519 3485	602.5 637.1	30.02 30.02 30.02	6	6 6	28.38 30.01	50 50
2d vs. 8w 3d vs. 1w 3d v. 2w	4122 4101 4101	3464 3928 3610	657.7 173.1 491 1	30.02 30.02 30.02	6	6	30.98 8.153 23.13	50 50
3d vs. 3w 3d vs. 4w 7d vs. 4w	4101 4101	3541 3519	559.7	30.02	6	6 6	26.36 27.41	50 50
od vs. 6w 3d vs. 8w 1w vs. 2w	4101 4101 3924	3485 3464 3610	616.5 637.1 318	30.02 30.02 30.09	6	6	29.04 30.01 14.98	50 50 50
1w vs. 3w 1w vs. 4w	3928 3928	3541 3519	386.6 408.8	30.02 30.02	6	6	18.21 19.26	50 50
Iw vs. 6w Iw vs. 8w 2w vs. 3w	3928 3928 3619	3485 3464 3541	443.4 464 68.62	30.02 30.02 30.0 ⁹	6	6	20.89 21.86 3.232	50 50 50
2w vs. 4w 2w vs. 6w	3610 3610	3519	90.85	30.02	6	6 6	4.28	50 50
2w vs. 8w 3w vs. 4w 3w vs. 6w	3610 3541 3541	3464 3519 3485	146.1 22.23 56.83	30.02 30.02 30.02	6	6 6	6.881 1.047 2.677	50 50 50
3w vs. 8w 4w vs. 6w	3541 3519	3464 3485	77.45	30.02	6	6 6	3.648	50 50
4w vs. 8w 6w vs. 8w Muscle collagen content	3519 3485	3464 3464	20.62	30.02	6	6	0.9712	50
Number of families Number of comparisons per family	-45							
Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value			
C vs. 1d C vs. 2d C vs. 3d	-0.035 -0.2583 -0.4583	-0.6778 to 0.6078 -0.9011 to 0.3844 -1.101 to 0.1844	No No No	DB DB	>0.9999 0.9415 0.3207	A-B A-C		
C vs. 1w C vs. 2w	-2.087 -3.663	-2.729 to -1.444 -4.306 to -3.021	Yes	****	<0.0001 <0.0001	A-12 A-17		
C vs. 3w C vs. 4w C vs. 6w	-4.203 -4.23 -3.215	-4.846 to -3.561 -4.873 to -3.587 -3.858 to -2.572	Yes Yes Yes	14141414 141414 141414	<0.0001 <0.0001 <0.0001	A-G A-H A-I		
C vs. Hw 1d vs. 2d	-2.91 -0.2233	-3.553 to -2.267 -0.8661 to 0.4194	Yes No	**** D.5	<0.0001 0.9764	A-J B-C		
ld vs. 3d ld vs. 1w ld vs. 2w	-0.4233 -2.052 -3.628	-1.066 to 0.2194 -2.694 to -1.409 -4.271 to -2.986	No Yes Yes		0.4831 <0.0001	B-D B-E B-F		
ld vs. 3w ld vs. 4w	-4.168 -4.195	-4.811 to -3.526 -4.838 to -3.552	Yes Yes	***	=0.0001 =0.0001	B-G B-H		
1d vs. 6w 1d vs. 8w 2d vs. 3d	-3.18 -2.875 -0.2	-3.823 to -2.537 -3.518 to -2.232 -0.8428 to 0.4428	Yes Yes No	****	<0.0001 <0.0001 0.9889	B-I B-J C-D		
2d vs. 1w 2d vs. 2w	-1.828 -3.405	-2.471 to -1.186 -4.048 to -2.762	Yes Yes	****	<0.0001 <0.0001	G-18 G-17		
2d vs. 3w 2d vs. 4w 2d vs. 6w	-3.945 -3.972 -2.957	-4.588 to -3.302 -4.614 to -3.329 -3.599 to -2.314	Yes Yes Yes	****	<0.0001 <0.0001 <0.0001	C-G C-H C-I		
2d vs. 8w 3d vs. 1w	-2.652 -1.628	-3.294 to -2.009 -2.271 to -0.9856	Yes Yes	****	<0.0001 <0.0001	C-J D-E		
3d vs. 2w 3d vs. 3w 3d vs. 4w	-3.205 -3.745 -3.772	-3.848 to -2.562 -4.388 to -3.102 -4.414 to -3.129	Yes Yes Yes	****	<0.0001 <0.0001 <0.0001	D-F D-G D-H		
3d vs. 6w 3d vs. 8w	-2.757 -2.452	-3.399 to -2.114 -3.094 to -1.809	Yes Yes		<0.0001 <0.0001	D-I D-J		
Tw vs. 2w Tw vs. 3w Tw vs. 4w	-1.577 -2.117 -2.143	-2.219 to -0.9339 -2.759 to -1.474 -2.786 to -1.501	Yes Yes	****	<0.0001 <0.0001 <0.0001	12-G 12-G		
1w vs. 6w 1w vs. 8w	-1.128 -0.8233	-1.771 to -0.4856 -1.466 to -0.1806	Yes Yes	****	=0.0001	12-1 12-J		
2w vs. 5w 2w vs. 4w 2w vs. 6w	-0.5667 0.4483	-1.183 to 0.1028 -1.209 to 0.07610 -0.1944 to 1.091	No No	DS DS	0.1275 0.4015	14H		
2w vs. 8w 3w vs. 4w	0.7533	0.1106 to 1.396 -0.6694 to 0.6161	Yes No	*	0.0104	141		
3w vs. 6w 3w vs. 8w	0.9883	(1) [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	N COM .			G-H		
4w vs. 6w	1.015	0.6506 to 1.936 0.3722 to 1.658	Yes Yes	***	<0.0001 <0.0001	G-H G-1 G-J H-1		
4w vs. 6w 4w vs. 8w 6w vs. 8w	1.015 1.32 0.305	06506 to 1.936 0.3722 to 1.936 0.6772 to 1.963 -0.3378 to 0.9478	Yes Yes Yes No	**** **** DS	0.0002 <0.0001 0.0001 <0.0001 0.8555	G-H G-J H-1 H-J I-J		
dw ys. 6w dw ys. Bw 6w ys. Bw Test details C ys. 1d	1.015 1.32 0.305 Mean 1 2.342	0.6506 to 1.936 0.6506 to 1.936 0.3722 to 1.658 0.6772 to 1.963 -0.3378 to 0.9478 Mean 2 2.377	Yes Yes Yes No Mean Diff. -0.035	**** **** ns SE of diff. 0.1942	 <0.0001 <0.0001 <0.0001 <0.0001 <0.8555 n1 6 	G-H G-I G-J H-J H-J 1-J n2 6	q DF	50
4w vs. 6w 4w vs. 8w 6w vs. 8w Test details C vs. 1d C vs. 2d C vs. 3w	1.015 1.32 0.305 Mean 1 2.342 2.342 2.342 2.342 2.342	0.6306 to 1.936 0.3722 to 1.638 0.6772 to 1.963 0.3378 to 0.9478 Mean 2 2.377 2.6 2.8 4428	Yes Yes Yes No Mean Diff. -0.2583 -0.4583 -0.4583	**** **** ns SE of diff. 0.1942 0.1942 0.1942	 ≪0.0001 ≪0.0001 ≪0.0001 ≪0.0001 ∞0.8555 №1 %0.001 %0.0001 %	G-H G-J G-J H-I H-J 1-J n2 6 6 6 6 6 6 6	9 DF 0.2549 1.882 3.338 5.2	50 50 50
4w vs. 6w 4w vs. 8w 6w vs. 9w	1.015 1.015 1.32 0.305 Mson 1 2.342 2.342 2.342 2.342 2.342 2.342 2.342	0.0506 to 1.036 0.3722 to 1.058 0.0772 to 1.963 -0.3378 to 0.9478 Mean 2 2.377 2.6 2.8 4.428 6.005 6.545	Yes Yes Yes No Mean Diff. -0.0355 -0.2583 -0.4583 -2.087 -3.663 -4.203	**** **** BS of diff. 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942	0.0002 0.0001 0.0001 0.8555 n1 0 0 0 0 0 0 0 0 0 0 0 0 0	G-H G-J H-J H-J H-J H-J H-J G- H-J H-J H-J G- H-G G- H-G- H-	9 DF 0.2549 1.882 3.338 15.2 26.68 30.61	50 50 50 50 50 50
4w vs. 6w 4w vs. 8w 5w vs. 8w 5w vs. 8w C vs. 30 C vs. 30 C vs. 30 C vs. 30 C vs. 30 C vs. 4w C	1.2359 1.015 1.32 0.305 Mean 1 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342	0.6306 to 1.936 0.3722 to 1.658 0.0772 to 1.063 -0.3378 to 0.9478 Mean 2 2.5 2.6 2.8 4.428 6.545 6.545 6.545 5.557 5.252	Yes Yes No Mean Diff. -0.2383 -0.4583 -0.4283 -0.4283 -0.4283 -0.4283 -0.4283 -0.4283 -0.4283 -0.4283 -0.4283 -0.4283 -0.4293 -0.4293 -0.4293 -0.4293 -0.4293 -0.4293 -0.2283 -0.4293 -0.2283 -0.4293 -0.2293 -0.4293 -0.2293 -0.2293 -0.4293 -0.2293	BE of diff. 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942	0.0000 0.0001 0.8555 n1 0.8555 n2 0.8555 0.8555 0.8555 0.8555 0.8555 0.8555 0.8555 0.8555 0.8555 0.0001 0.000000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.000000 0.00000000	G-H G-J H-J H-J 1-J 1-J 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 DF 0.2549 1.882 3.338 15.2 26.68 30.61 30.81 23.42 21.19	50 50 50 50 50 50 50 50
Aw Yes, Bar Aw Yes, Bar Threat densitie C var, 1d C var, 3d	1015 1035 132 0,305 Meon 1 2,342 2,3	0.6306 to 1.936 0.3722 to 1.658 0.6772 to 1.963 0.3378 to 0.9478 Mean 2 2.5 0.4272 0.428 0.428 0.6378 0.6478 0.6488 0.64880000000000000000000000000000000000	Yes Yes No Mean Diff. -0.2383 -0.4583 -0.4583 -0.4583 -2.087 -3.663 -4.203 -3.215 -0.2233 -0.2233 -0.2233 -0.2233	**** **** B8 SE of diff. 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942 0.1942	0.0000 0.0001 0.8555 n1 0.8555 0.0001 0.8555 0.0001 0.8555 0.0001 0.8555 0.0001 0.8555 0.0001 0.0001 0.8555 0.0001 0.0001 0.8555 0.0001 0.0000000000	C-H C-J C-J H-J H-J H-J H-J H-J H-J C-J C-J C-J C-J C-J C-J C-J C-J C-J C	9 DF 0.2549 1.882 3.352 26.68 30.61 30.61 23.42 21.19 1.627 3.083	50 50 50 50 50 50 50 50 50 50 50
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day 'sy, faw day 'sy, faw day 'sy, fad C va, fad	1.015 1.32 0.305 Mean 1 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.347 2.377 2.377 2.377	0.6300 (p) 1.936 0.6372 (p) 1.638 0.672 (p) 1.638 0.672 (p) 1.638 Mean 2 2.67 2.6 2.6 3.577 6.555 6.545 6.545 6.557 5.252 6.345 6.345 6.345 6.345 6.357	Yes Yes No Meon Diff. 0.035 -0.4583 -0.4583 -0.4583 -0.4583 -0.4583 -0.4583 -0.4583 -0.4583 -0.4233 -0.4353 -0.4555 -0.4555 -0	SEC of diff. 0.1942	 0.0000 0.0001 0.0001 0.0001 0.1555 0.1 0.0 0.0	C-H C-J C-J H-J H-J H-J H-J H-J H-J H-J H-J H-J C-J C-J H-C H-C H-C H-C H-C H-C H-C H-C H-C H-C	4 DF 0.2549 1.882 3.153 26.68 30.61 33.81 23.149 1.627 3.083 1.627 3.083 30.36 30.35 30.35 30.35 30.35	30 30 50 50 50 50 50 50 50 50 50 50 50 50 50
4w 'es, fow 4w 'es, fow two values two values C values G values	L 1015 1.52 0.30 Mean 1 2.342 2.347 2.377 2.	0.0500 to 1.9300 0.9723 to 1.040 0.3778 to 0.0478 Mean 2 2.77 3.0 4.0300 4.0300 4.0300 4.0300 4.0300 4.0300 4.0300 4.0300 4.0300 4.03000 4.03000 4.03000 4.030000 4.030000000000	Yes Yes No Mean Diff. -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.035 -0.04233 -0.04233 -0.04233 -0.04233 -0.04233 -0.04233 -0.04233 -0.04233 -0.04233 -0.04233 -0.04235 -0.04235 -0.04235 -0.04235 -0.04235 -0.04235 -0.04235 -0.04235 -0.04235 -0.0425 -0.045555 -0.045555 -0.045555 -0.045555 -0.045555 -0.045555 -0.045555 -0.045555 -0.0455555 -0.0455555 -0.0455555 -0.0455555555 -0.0455555555555555555555555555555555555	***** BIS of diff. 0.1942 0	0.0000 0.0001 0.0001 0.1555 01 0 0 0 0 0 0 0 0 0 0 0 0 0	C-H C-J C-J H-J H-J H-J H-J h-J n2 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 DF 1,2,340 1,3,36 1,5,2 26,68 30,61 20,01 20,01 1,627 3,42 1,627 3,42 1,627 3,42 1,627 3,42 1,627 3,42 1,627 3,42 2,6,43 3,0,35 2,0,94 1,457 1,3,32	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Aw Yes, Bar Aw Yes, Bar There, derails Cove, 1d Cove, 1d Cove, 1d Cove, 1d Cove, 1d Cove, 1d Cove, 3d Cove, 3d <tr< td=""><td>L 1015 1.32 0.305 Mean 1 2.342 2.347 2.377 3.56</td><td>0.0500 (p1 1996) 0.9723 (p1 1986) 0.3723 (p1 1986) 0.3723 (p1 1986) 0.3723 (p1 1987) 0.3723 (p1 1987) 0.3723</td><td>Yes Yes Nes No Mean Diff. 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.25555 0.255550 0.255550000000000</td><td>**** b*** DS 0.1942</td><td>6.0000 60000 6.0000 6.8555 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6</td><td>C-H C-J C-J C-J C-J C-J C-J C-J C-J C-J C-C C-C</td><td>4 0.2240 1.803 3.15.2 26.68 30.61 23.162 23.107 1.4.94 24.49 24.49 24.49 24.45 24.45 24.57 24.65 28.55 28.55 2</td><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td></tr<>	L 1015 1.32 0.305 Mean 1 2.342 2.347 2.377 3.56	0.0500 (p1 1996) 0.9723 (p1 1986) 0.3723 (p1 1986) 0.3723 (p1 1986) 0.3723 (p1 1987) 0.3723	Yes Yes Nes No Mean Diff. 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.2553 0.25555 0.255550 0.255550000000000	**** b*** DS 0.1942	6.0000 60000 6.0000 6.8555 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	C-H C-J C-J C-J C-J C-J C-J C-J C-J C-J C-C C-C	4 0.2240 1.803 3.15.2 26.68 30.61 23.162 23.107 1.4.94 24.49 24.49 24.49 24.45 24.45 24.57 24.65 28.55 28.55 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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Aw two, for Aw two, for Aw two two Aw two two Aw two two Aw two two Aw two Aw two C ve. D ve. D ve.	1 1015 1 32 0 30 Meon 1 2 342 2 347 2 377 2 377 3	0.0500 (c) 1.930 0.03722 (c) 1.040 0.3772 (c) 0.0478 0.0378 (c) 0.0478 Mean 2 2.977 3.0 4.005 3.0 4.005	Yes Yes Yes Mean Duff, 0.283 0.4833 0.4833 0.4833 0.4833 0.4233 0.4335 0.43550000000000000000000000000000000000	Image: Constraint of the second sec	00000 00001 00001 00001 00001 00001 00001 00001 00000 00000 00000 00000 00000 00000 0000	C_{-41} C_{-41} C_{-4} $C_$	4 DP 2.2303 3.333 1.5.3 3.333 1.5.3 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.3000 3.30000 3.30000 3.30000 3.300	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Acc vs. 60e Acc vs. 60e Acc vs. 14 C vs. 30 C vs. 30 Acc	L 1015 L 132 0.365 Mean 1 2.342 2.442 2.4444 2.44444 2.4444 2.44444 2.44444 2.44444 2.44444 2.44444 2.44444 2.44444 2.44444	0.0300 (c) 1.930 0.732 (c) 1.930 0.3723 (c) 1.9478 0.3723 (c) 1.9478 0.3723 (c) 1.9478 0.375 (c) 1.9478 0.375 (c) 1.9478 0.345	Yes Ves No No Mean Diff. d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.2355 d.23555 d.23555 d.23555555555555555555555555555555555555	***** File	0.0000 0.00001 0.00001 0.00	$C_{1} + H$ $C_{2} + H$ $C_{$	0 0.2340 0.4343 3.6,03 3.6,01 2.3,43 3.6,01 2.3,43 3.6,01 3.6,27 3.6,03,03 3.6,03,03 3.6,03,03,03 3.6,03,03,03,03,03,03,03,03,03,03,03,03,03,	30 30 30 30 30 30 30 30 30 30 30 30 30 3
Abe vis, 6 work Abe vis, 6 work For work For work Cove, 13 Cove, 14 Cove, 14 <	L 1015 L 33 L 33 L 33 L 34 L 34 L 34 L 34 L 34	0.0500 (19.050) 0.7723 (19.10.0478) 0.7723 (19.10.478) 0.7723 (19.10.478) 0.772 (19.	Yes No No No Mean Diff. 0.2035 0.2035 0.20370000000000000000000000000000000000	**** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ***** ******	30,0001 30,0000 30,00000000	Ci+H Ci+H H-I H-I H-I H-I H-I H-I H-I H-	9 0.2340 0.4343 3.603 3.604 0.2344 3.603 3.604 0.2344 3.6044 3.6044 3.604 3.6044 3.6044 3.6044 3	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Aw or, Sour Aw or, Sour Aw or, Sour Construct	1,013 (1,013) (1,013) Mean 1 3,142 3,14	0.0500 (19.050) 0.05723 (19.05478) 0.05723 (19.05478) 0.05723 (19.05478) 0.0572 (19.0	Yes No No No Mean Duff. dufts		0.0000 0.0001 0.0000000000		4 02244 1.523 1.523 1.523 1.523 3.533 3.541 3.543 3.541 3.543 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.545 3.555 3.555 3.555 3.5555 3.5555 3.5555 3.5555 3.55555 3.5555555555	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Act vs. Soc Soc Act vs. Soc Soc Text decolfs Soc C vs. Soc Soc	L 1013 L 2013 L 2013 L 2014 L 2014	0.0500 (1996) 0.3722 (1996) 0.3723 (1996) 0.3772 (1996) 0.0478 Neon 2 2.977 0.0478 0.0	Vea Nean Diff. Nean Diff. All and the second		0.0000 0.0001 0.0000000000	Ci 41 Ci 41	4	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Act Co. Soc. Soc. Act Co. Soc. Soc. Texa decodina Soc. Co. Soc. Soc.	1003 1003	0.0500 (c) 1.950 0.05723 (c) 1.050 0.05723 (c) 1.0478 0.05723 (c) 1.0478 1.05723 (c) 1.0478 1.05723 (c) 1.0478 1.0573 (c) 1.0478 1.0573 (c) 1.0478 1.0573 (c) 1.0478 1.0573 (c) 1.0478 1.0573 (c) 1.0573 (c) 1.0573 1.0573 (c) 1.0573 (c) 1.0573 1.0573 (c) 1.0573 (c)	Vea Nea Nea Nea Nea Nea Nea Nea Nea Nea N		00000 00001 00001 00001 00001 00001 00001 00001 00001 00001 00001 00000 00000 00000 00000 00000 00000 0000	Ci 44 Ci 44	4	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Act ors Source Act ors Source There decalls Constant Constant Constant </td <td>1003 1003 100 100 100 100 100 100 100 10</td> <td>0.05800 (19.1996) 0.3723 (19.1945) 0.3723 (19.1047) 0.3773 (19.1047) 0.3773 (19.1047) 0.3773 (19.1047) 0.3777 0.3777 0.3777 0.3777 0.3777 0.3777 0.3777 0.37777 0.37777 0.377777 0.37777777777</td> <td>Ven No No No No No No No No No No No No No</td> <td></td> <td>00000 00001 000000</td> <td>Ci 41 Ci 41 Ci 41 Ci 42 Ci 42</td> <td>4 0 000 0.224</td> <td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td>	1003 1003 100 100 100 100 100 100 100 10	0.05800 (19.1996) 0.3723 (19.1945) 0.3723 (19.1047) 0.3773 (19.1047) 0.3773 (19.1047) 0.3773 (19.1047) 0.3777 0.3777 0.3777 0.3777 0.3777 0.3777 0.3777 0.37777 0.37777 0.377777 0.37777777777	Ven No No No No No No No No No No No No No		00000 00001 000000	Ci 41 Ci 41 Ci 41 Ci 42 Ci 42	4 0 000 0.224	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Aw or, bay Correll	Linds Li	0.0500 (1996) 0.3723 (1996) 0.3723 (1996) 0.3723 (1996) 0.3723 (1996) 0.3723 (1996) 0.372	Ven Non Non Non Non Non Non Non Non Non No	2000 2000	0.0000 0.0001 0.0000000000	Ci J J Ci J J Ci J J Ci J Ci J	4 523 1 100 1	
Act or Solution Act or Solution Texa decoulds Constant	1003 1003	0.0500 (1996) 0.05722 (1996) 0.05722 (1996) 0.05723 (1996) 0.0572 (1996) 0.0	Ven No No No Mean Durf, J. 2003 J. 200		0.0000 0.0001 0.0000000000	C.11 C.11 C.21 C.3 C.3 C.3 C.3 C.3 C.3 C.3 C.3 C.3 C.3	4	
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Act or Solution Act or Solution The act or Solution Construction C	1,003 (1003) (1003) 1,003 1,004 1,004 1,005	0.05000 (19.050) 0.03723 (19.04378) 0.03723 (19.04378) 0.03723 (19.04378) 0.03723 (19.04378) 0.0372 0.0372 0.0375 0.03	Vee No No No No No No No No No No No No No	2000 2000	50.0001 0.0001 50.0001 0.0001 50.0001 0.0001 50.0001 0.0000 60.00000 60.00000 60.00000 60.00000000	Ci-H Ci-H Ci-H Ci-H Ci-Ci-Ci-Ci-Ci-Ci-Ci-Ci-Ci-Ci-Ci-Ci-Ci-C	4 02200 0200 020000 00000 000000 000000 00000	
Aw way feat Aw a set There decadles C vec	Linis Linis Linis Linis Mean 1 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.342 2.347 2.377 2	0.05000 (c) 1.9900 0.9722 (c) 1.9900 0.9722 (c) 1.940 0.9722 (c) 1.940 0.9722 (c) 1.940 0.9722 (c) 1.940 0.9722 (c) 1.940 0.972	Vea No No No No No No No No No No No No No	2000 2000	-0.000 -0.0001 -0.0	Califier Control of Califier Control of Califier	4 52 54 54 54 54 54 54 54 54 54 54 54 55 55	
Act or Act Act or Act Texa decalis Cover Statistics	Linis Li	0.05000 (1990) 0.05000 (1990) 0.05722 (1) 0.0478 0.05723 (1) 0.0478 0.05723 (1) 0.0478 0.0572 0.	Ven Non Non Non Non Non Non Non Non Non No		-0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001	Call Gall Gall Hig Hig Hig Hig Hig Hig Hig Hig Hig Hig	4	
Jac vs. 6ae Jac vs. 6ae Ver. 14	Linis Linis	0.05000 (19.1906) 0.03723 (0.10478) 0.03723 (0.10478) 0.03723 (0.10478) 0.03723 (0.10478) 0.03723 (0.10478) 0.0372 0.0372 0.0373 0.0373 0.0373 0.0373 0.0375 0.03	Vee No No No No No No No No No No No No No	3 3 3 3 4 3 4 3 5 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3 7 3 8 3 9 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10 3 10		Ci 41 Ci 41 Ci 41 Ci 41 Ci 42 Ci	4	
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Dear editor, Thank you very much for your comments and suggestions. Those comments are all valuable andvery helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. The responds to the reviewer's comments are as followings. Responds to the reviewer's comments Reviewer: 1.Comment: The manuscript was much improved but still I see the inconsistences. Abstract and Introduction present the aim of the study. But conclusions are different in the Abstract and Main text. The results in this study suggested that myogenic contracture was stabilized after 2 wk, while arthrogenic contracture was stabilized after 3 wk. I would not write wk instead of weeks. The conclusion should express what was found not suggested. Discussion At the end of discussion the following abstract sound clumsy.

Response: Thank you for your valuable suggestion. The conclusion of the abstract in the article has been modified and the suggestive conclusion has been removed. Simultaneously revised the unreasonable content proposed by the experts.

2. The article did not further discuss that after the formation of contracture, the external fixation was removed, the rats were allowed to move freely, and the self improvement of the degree of contracture was observed, which will be studied in the next experiment. May be better to express the point like this: The state of the extension contracture after the removal of the external fixator was also studied and will be reported. Or omit it.

3. Response: According to your suggestion, modify to The state of the extension contracture after the removal of the external fixator was also studied and will be reported. 3.FIGURE 5. (A) Morphological changes of the anterior joint capsule. (B) Forward joint capsule thickness value, *P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001vs, control group. What is forward???? Response: Sorry, this is my expression error and has been changed to the anterior joint capsule.

4.Key words: I would put extension contracture as a key word to specify what kind of contracture was studied. Response: Thank you for your suggestion. I have modified the keywords contracture to extension contracture.