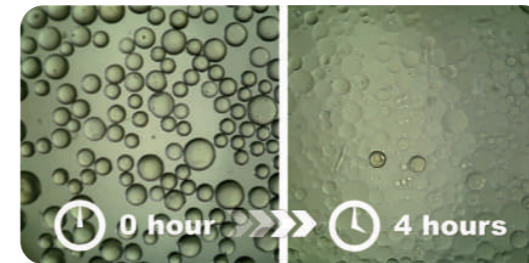
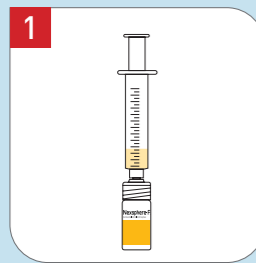


# Nexsphere-F™

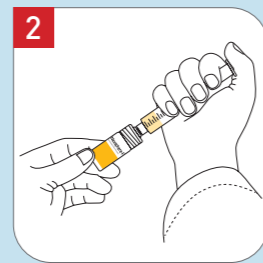
Fast Resorbable Embolic Microsphere



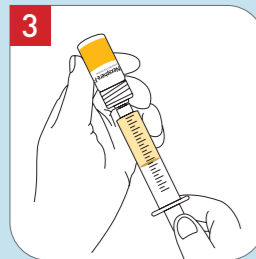
## Introduction for Use



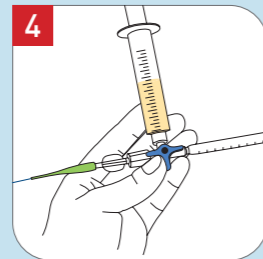
Inject the saline into Nexsphere-F™ vial using luer lock syringe and shake to disperse and hydrate microspheres



Inject the contrast medium into Nexsphere-F™ vial with saline using luer lock syringe and shake for minutes to mix the contents



Transfer the mixed contents to a syringe

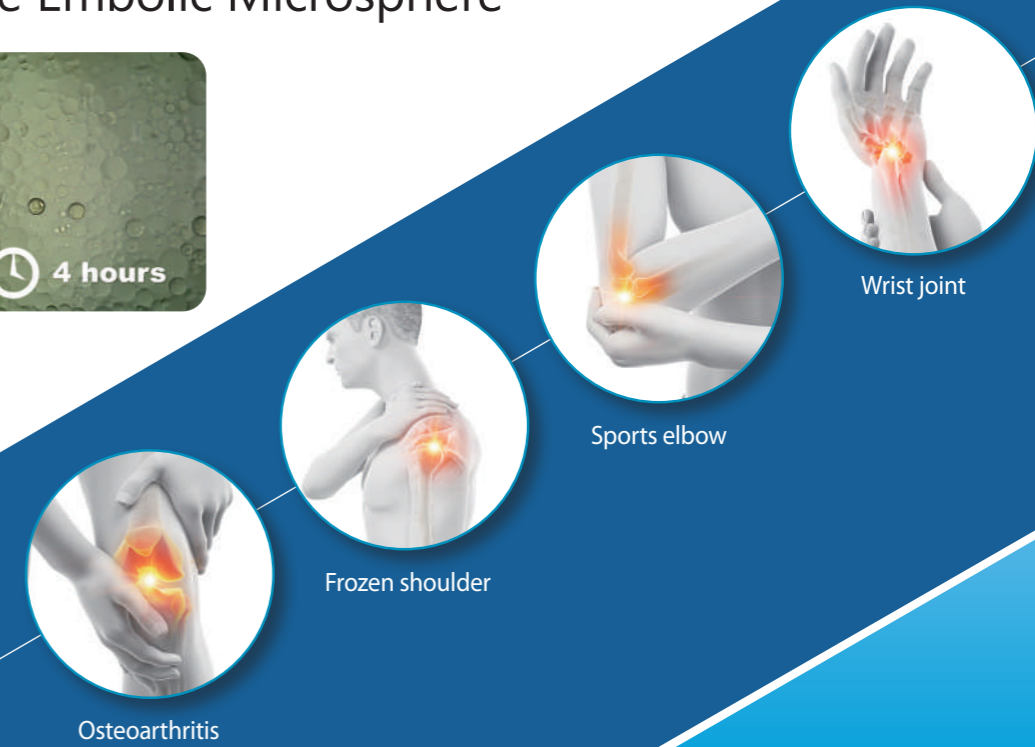


Inject the mixed Nexsphere-F™ contents into the lesion via a standard catheter

## Product description

Product name	Size of microsphere	Quantity
Nexsphere-F™	100~300µm	200mg

OCCLUSION.  
DISSOLUTION.  
RIGHT TIMING.



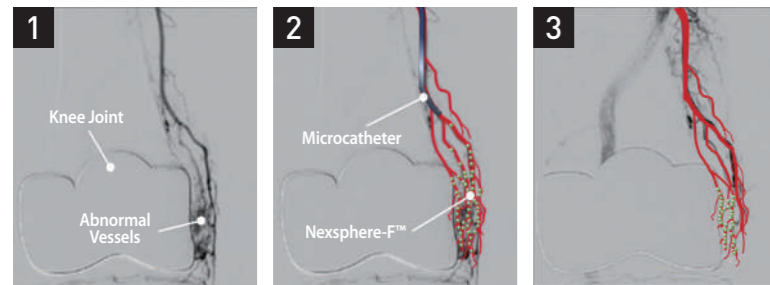
Global Company of Innovative Medical Devices for Clinical Unmet Needs

[www.nextbiomedical.co.kr](http://www.nextbiomedical.co.kr)

6, Venture-ro 100beon-gil, Yeonsu-gu, Incheon, Republic of Korea, 22013  
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E-mail. [sales@nextbiomedical.co.kr](mailto:sales@nextbiomedical.co.kr)

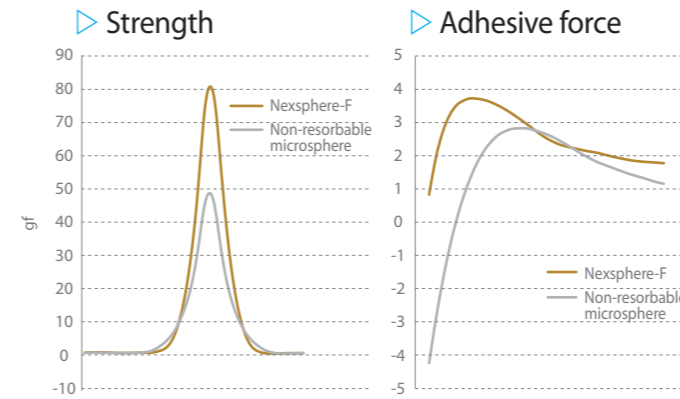


## | Musculoskeletal(MSK) Embolization |

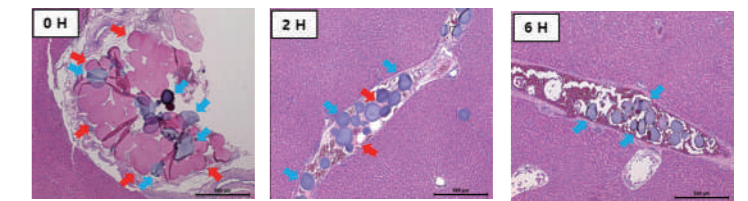


- 1 Musculoskeletal Pain**  
Abnormal vessels in inflamed tissues promote nerve cell growth and cause musculoskeletal pain.
- 2 Procedure**  
Nexsphere-F™ induces embolization by targeting abnormal vessels during the MSKE procedure.
- 3 Pain Relief**  
After abnormal vessels are occluded and nerve cells are damaged, providing relief from pain.

## | Bench & In vivo test |



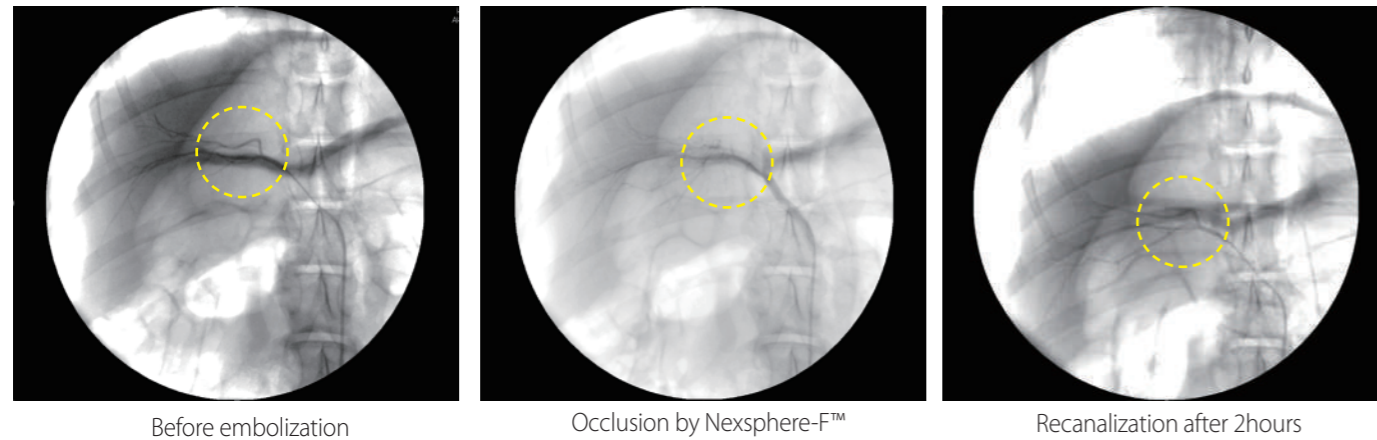
### ▷ Dissolution test in rat liver model



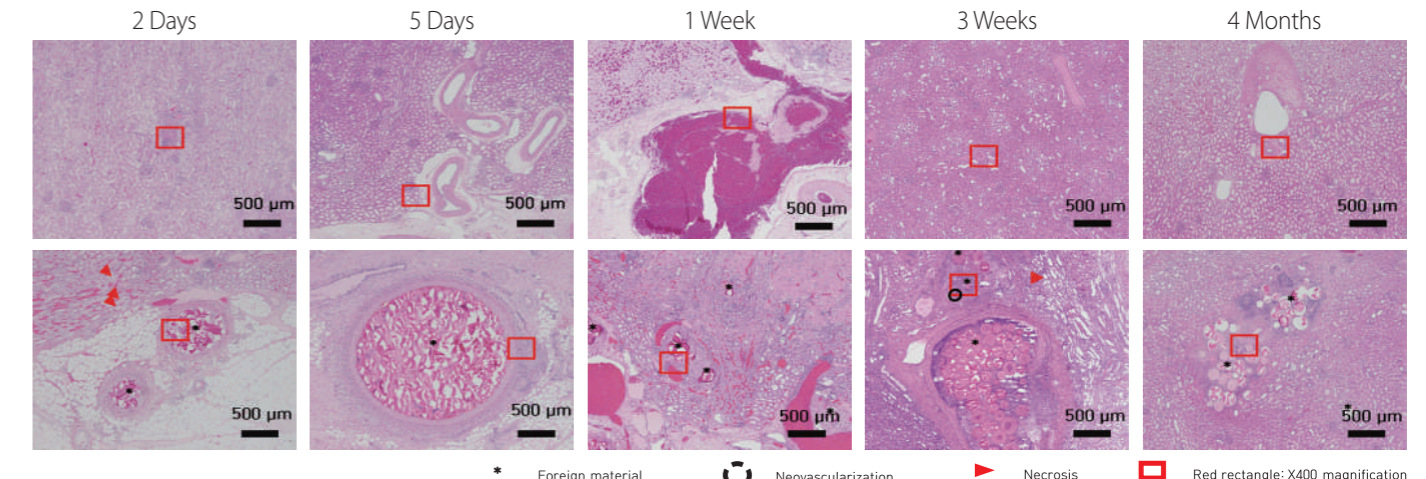
Dissolution test results in rat liver using Nexsphere-F™ and permanent product  
 → Nexsphere-F™  
 → Non-resorbable microsphere

## | Pre-clinical test |

### ▷ Embolization & Recanalization performance of Nexsphere-F™ in porcine model



### ▷ Histopathological Examination (Foreign materials)



- All Nexsphere-F™ microspheres were resorbed and disappeared at 2 days after the application.  
 - Non-resorbable microsphere remained all through 4 months.

## | Clinical case(Sports injury) |

### Case 1.



#### ▷ 24/M, patellar tendinopathy in right knee

10 min after: The NRS of pain due to point tenderness decreased from 7 to 1  
 1 week after: intensity of the pain decreased from 8 to 1 during exercise  
 2 months after: pain score dropped to 0

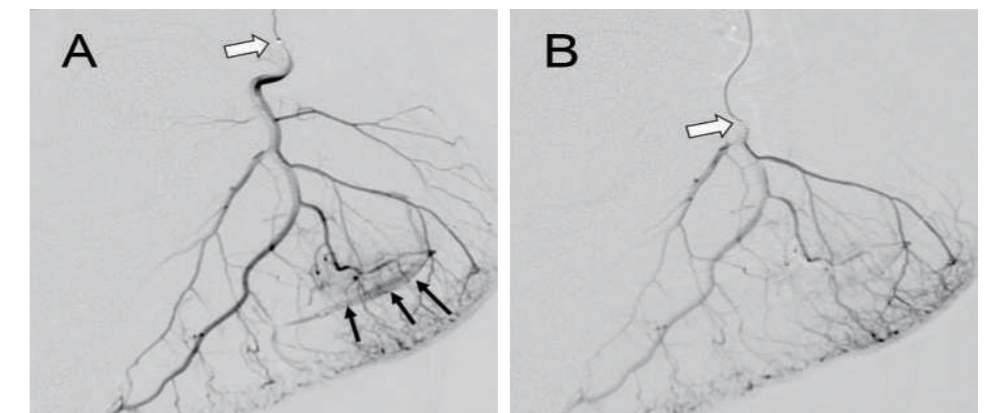
### Case 2.



#### ▷ 30/F, pes anserine bursitis in right knee

Two weeks after embolization using Nexsphere-F, her pain intensity decreased by 60%, and she could resume to light running exercise. Also, she has been able to play over a year and a half without experiencing recurrence of the pain.

### Case 3.



#### ▷ 60/F, plantar fasciitis in right heel

initial improvement : NRS for pain intensity decreased from 7 to 3  
 1 month after: 70% reduction in intensity  
 3 months after: no pain in the affected heel in everyday and sports playing.  
 The planter fascia decreased from 6.1 to 3.9mm.

\* Transarterial Embolization for Refractory Overuse Sports Injury: Pictorial Case Reports, Okuno, Y., CardioVascular Interventional Radiology (2023)