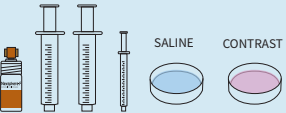
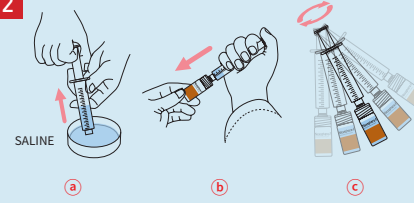
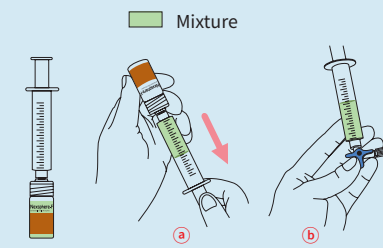


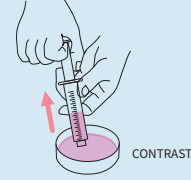
Introduction for Use

- 

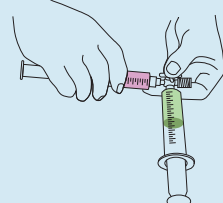
Prepare a vial of Nexsphere-F, two luer-lock syringes (20cc), an injection syringe (1cc or 3cc), a 3-way-stopcock, saline solution, contrast medium and a delivery catheter (microcatheter).
- 

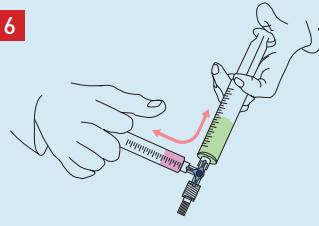
Take 10cc of saline solution using an empty 20cc syringe, slowly inject the saline solution into a vial, and shake it to disperse and hydrate the Nexsphere-F in the vial.

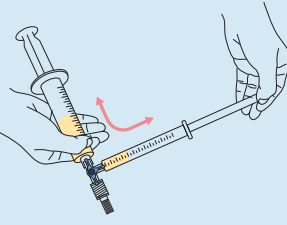
※ Caution: To ensure proper hydration, add saline solution to the vial, shake it more than 30 seconds, and wait about 30 seconds.
- 

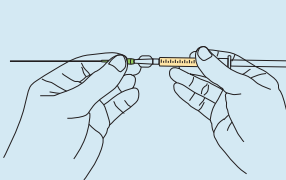
Transfer the hydrated Nexsphere-F to a 20cc syringe, and connect the syringe to a perpendicular valve of the 3-way-stopcock.
- 

Take 10cc of contrast medium using an empty 20cc syringe, and purge all air from the syringe.

※ It is recommended to mix the product with a contrast medium for radiologic monitoring.
- 

Connect the syringe containing the contrast to one port of the 3-way-stopcock where the syringe containing the Nexsphere-F mixture is connected.
- 

Pump both of syringe's plunger back and forth slowly 3~4 times to dilute. Once the diluted mixture of Nexsphere-F is completely transferred into one of syringes, remove the other empty syringe.
- 

Attach the injection syringe to the 3-way-stopcock and pump the plunger of the injection syringe back and forth several times to disperse the Nexsphere-F in solution.
- 

Once suspension is confirmed, remove the injection syringe from 3-way-stopcock and connect the syringe to a delivery catheter. Inject the Nexsphere-F solution to the delivery catheter under fluoroscopic visualization using a slow pulsatile injection while observing the contrast flow rate.

Product description

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



Global Company of
Innovative Medical Devices for
Clinical Unmet Needs

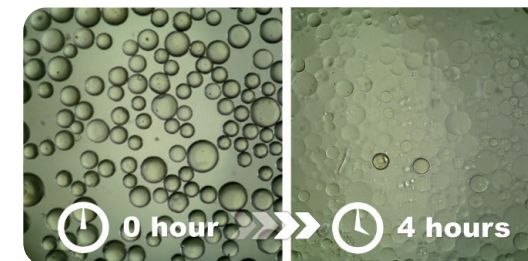
www.nextbiomedical.co.kr

This brochure was created to help medical professionals in countries other than Korea understand the product and cannot be used for advertising or sales promotion purposes in Korea.

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Nexsphere-F™

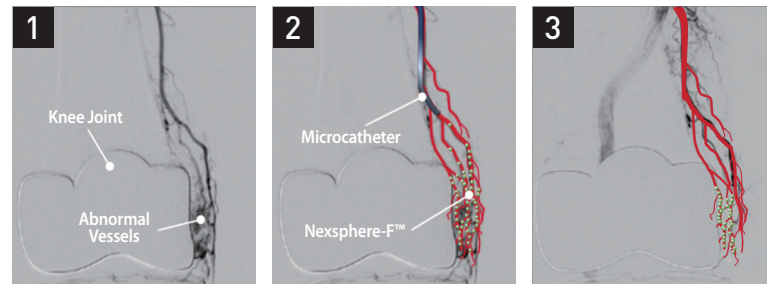
Fast Resorbable Embolic Microsphere



OCCLUSION.
DISSOLUTION.
RIGHT TIMING.

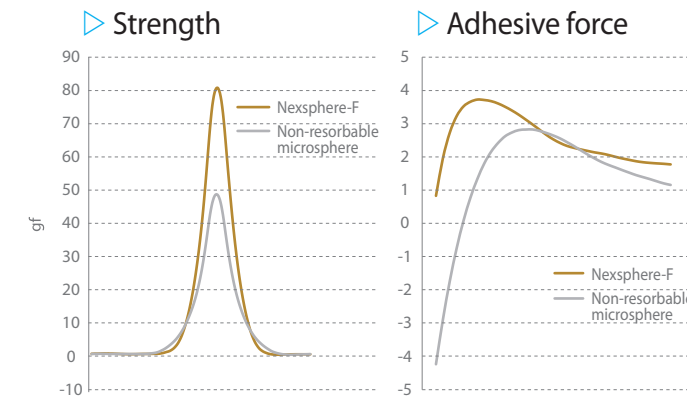


| Musculoskeletal(MSK) Embolization |

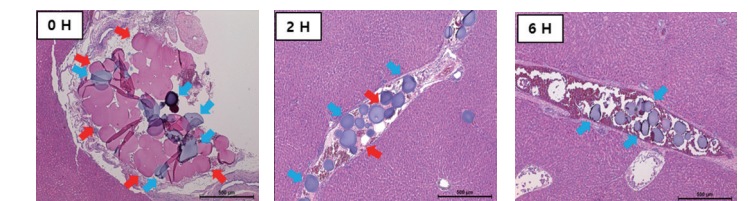


- 1 Musculoskeletal Pain**
Abnormal vessels in inflamed tissues promote nerve cell growth and cause musculoskeletal pain.
- 2 Procedure**
Nexsphere-F™ induces embolization by targeting abnormal vessels during the MSKE procedure.
- 3 Pain Relief**
Occlusion of abnormal vessels damages nerve cells and it provides relief from pain.

| Bench & In vivo test |



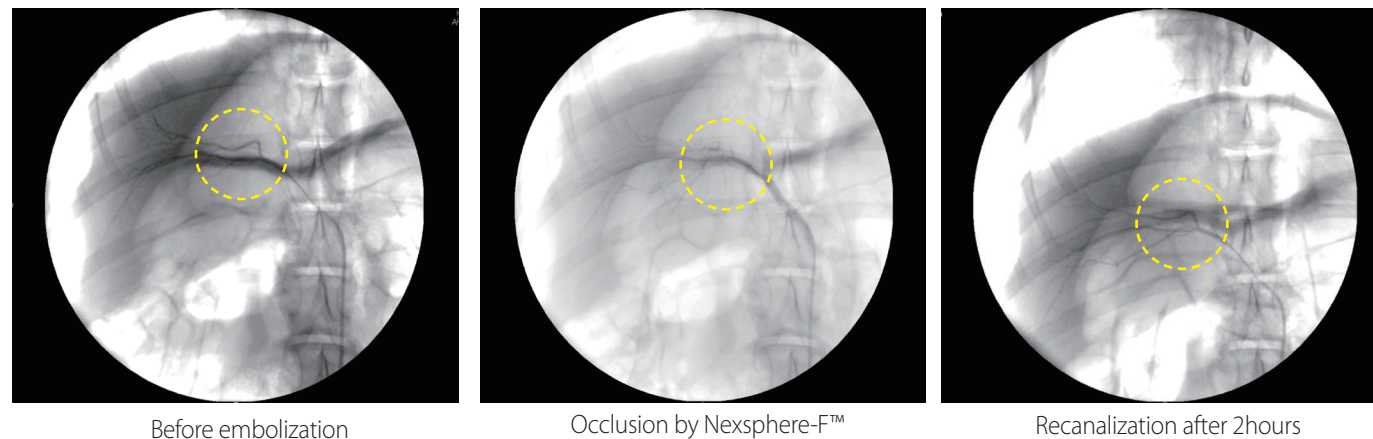
▷ Dissolution test in rat liver model



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 a porcine model

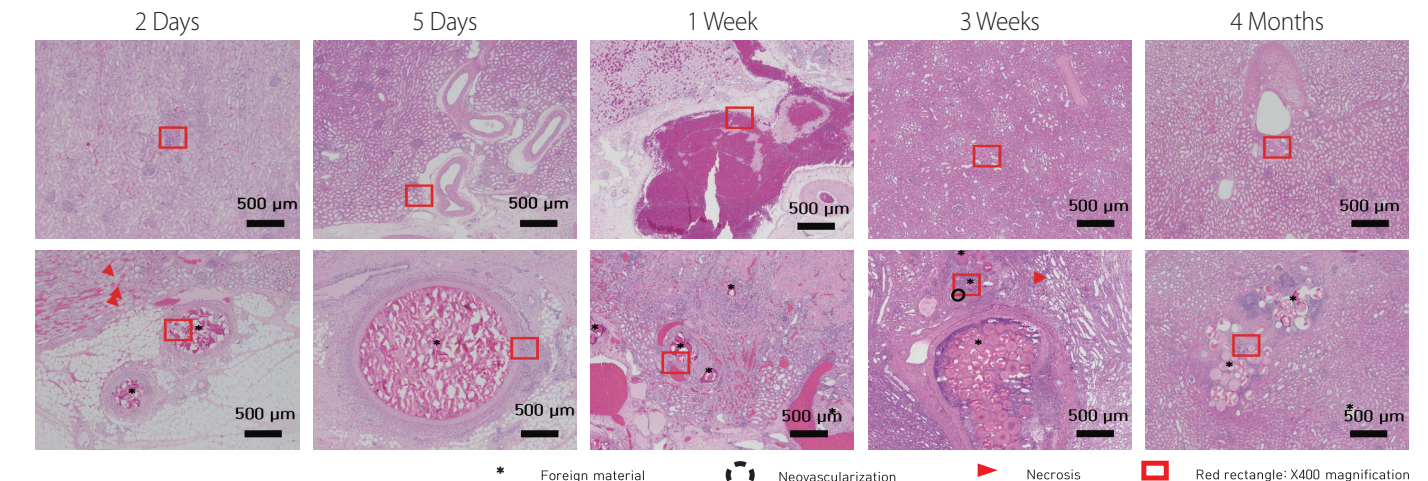


Before embolization

Occlusion by Nexsphere-F™

Recanalization after 2hours

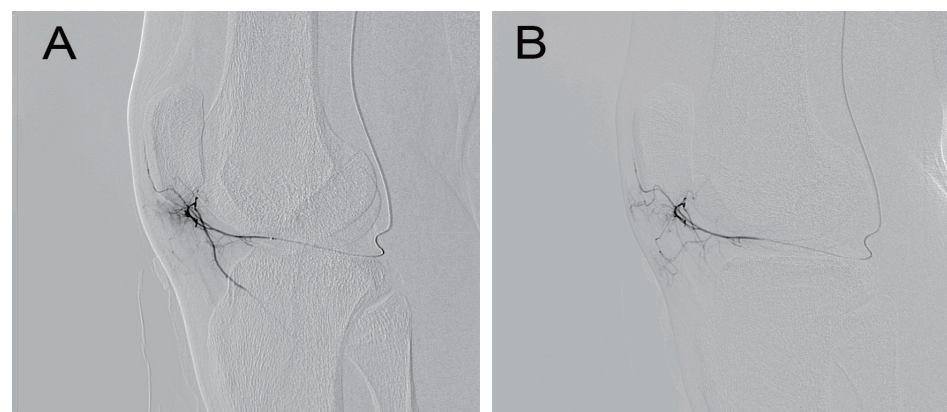
▷ Histopathological Examination (Foreign materials)



- 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

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

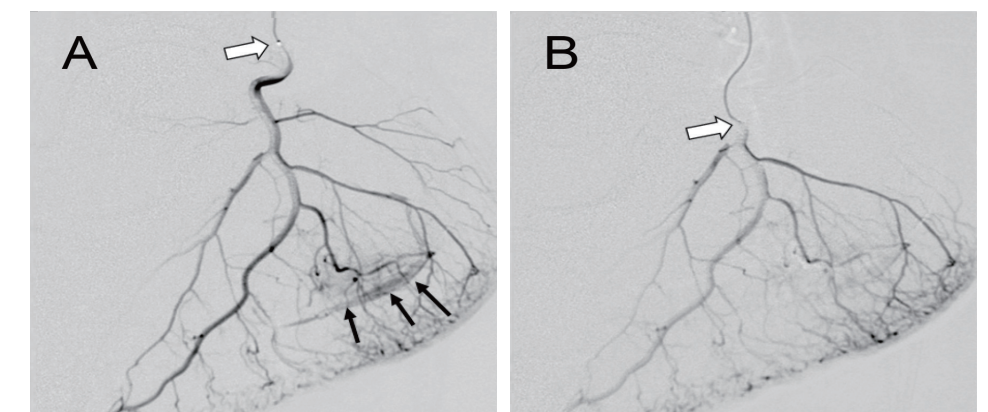
Case 2.



▷ 30/F, pes anserine bursitis in right knee

After 2weeks of 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
 After 1month: 70% reduction in intensity
 After 3months: no pain in the affected heel in everyday and sports playing.
 The planter fascia decreased from 6.1 to 3.9mm.