

www.pk-med.com

1

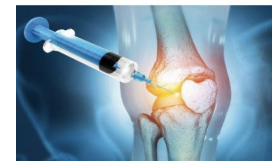
Gout Flares

- Excruciatingly painful and disabling arthritis flares
- High medical need for an effective and safe treatment



2

PKM-01



First ever intra-articular colchicine product

Ropivacaine
Anesthetic

- ❑ Fast pain relief (within minutes)
- ❑ Routinely used

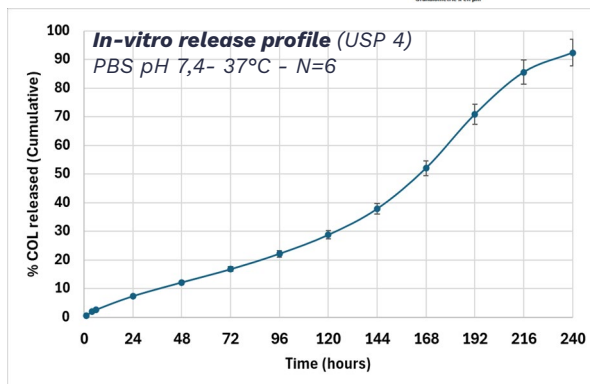
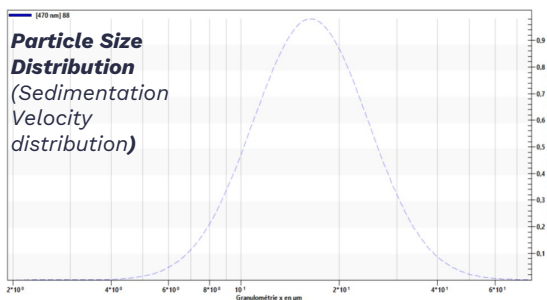
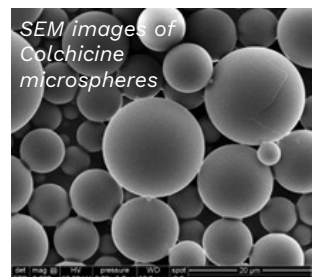
+

Colchicine
Anti-inflammatory
Controlled-release
microspheres

- ❑ Oral colchicine: Suboptimal efficacy limited by toxicity
- ❑ PKM-01 increases and maintains local colchicine concentration
- ❑ PKM-01 induces a negligible systemic exposure

3

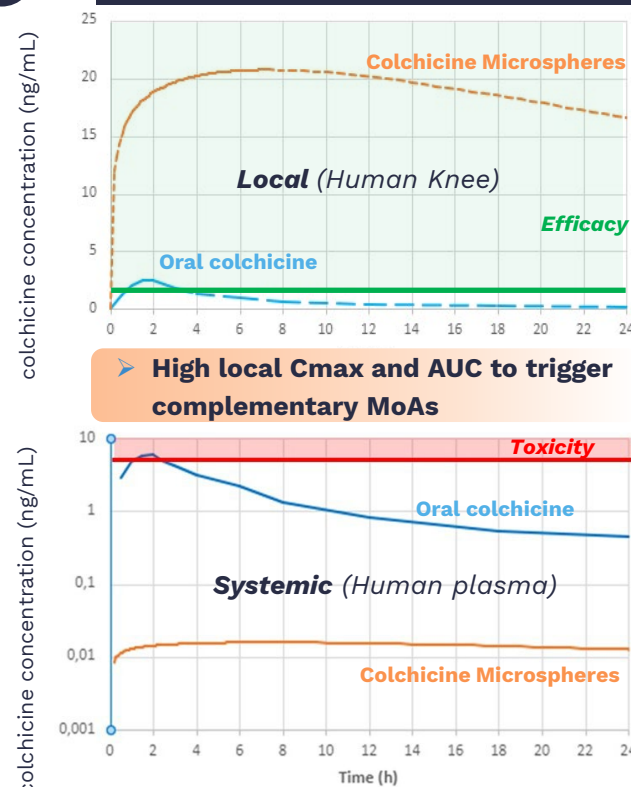
PLGA Colchicine Microspheres



- O/W emulsification with PLGA (50/50) polymers
- Microspheres diameter: 10-40µm
- ~7-10 days in-vitro colchicine release (flare duration)

4

Colchicine Pharmacokinetics

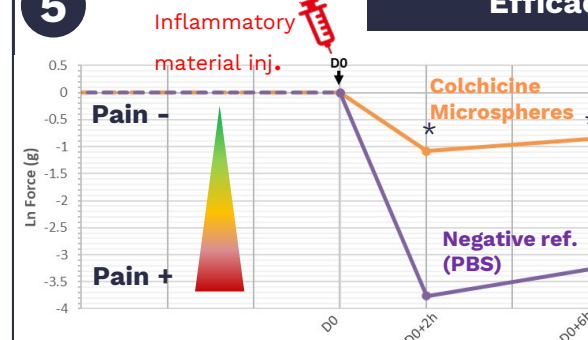


- High local Cmax and AUC to trigger complementary MoAs

- Negligible systemic concentration: A superior safety profile

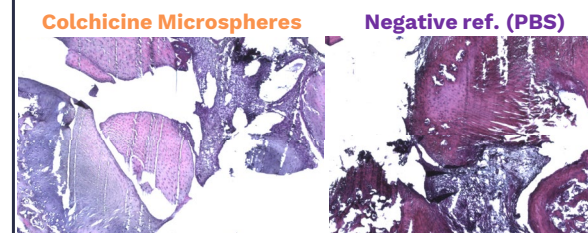
5

Efficacy



Allodynia in rats (n = 8-10)
Carrageenan induced arthritis (ankle)

- Swift and strong analgesic effect



Joint histological characterization

- High Cartilage protection

6

Conclusion

- A very effective and safe intra-articular drug product
- Direct access to phase 2 clinical trial granted by FDA and planned on Q3 2026
- Potential extension for Osteoarthritis