

(Colon Delivery System)

· 1982

()

(pH)

(OROS System)

blockbuster

· metotrolol, salbutamol, nifedipine, pseudoephedrine, verapamil, theophylline

Pulse ()

· Pulsincap (: R.P Scherer, body plug

가

· cap plug가

plug가body

body

FDA

Geomatrix System

· SkyePharm Jenta Jago

가

가 (Ulcerative Colitis)

(Crohn's Disease)

· P&G, Ferring mesalazine Astra budesonide

· polyethylene glycol (PEG) EC(Ethyl Cellulose) Na

K가EC

EC

pH ,

12

SODAS(Solid Drug Absorption System)

2 Elan

· 1mm multiparticle bead

, pH ,

SODAS 가 30

(TTS TDS)

가가

(bioavailability)

가

pilocarpine Alza Ocuster,
Biserch Piloplex , 1
14

가
calcitonin, beclomethasone,
budesonide 가

nitroglycerine, triamcinolone, nicotine
· Norplant (levonegesterol)

Leuplin (leuprolelin)
PLGA
3

· Norplant (levonegesterol)

· Zoladex (goselerin) ICI
(depot) 4
가

(macromolecules)
(systemic blood circulation)
가
40 가

(biotherapeutics)

(1) (intravenous injection)

1~20ml

(intravenous infusion)

(2) (intramuscular injection)

가

(3) (subcutaneous injection)

(4) (intracutaneous injection)

0.1~0.2ml 가

() ()

(5) (intra-arterial injection)

regional chemotherapy

(6) (intrathecal or intraspinal injection)