

Oral vs IM/SC Administration

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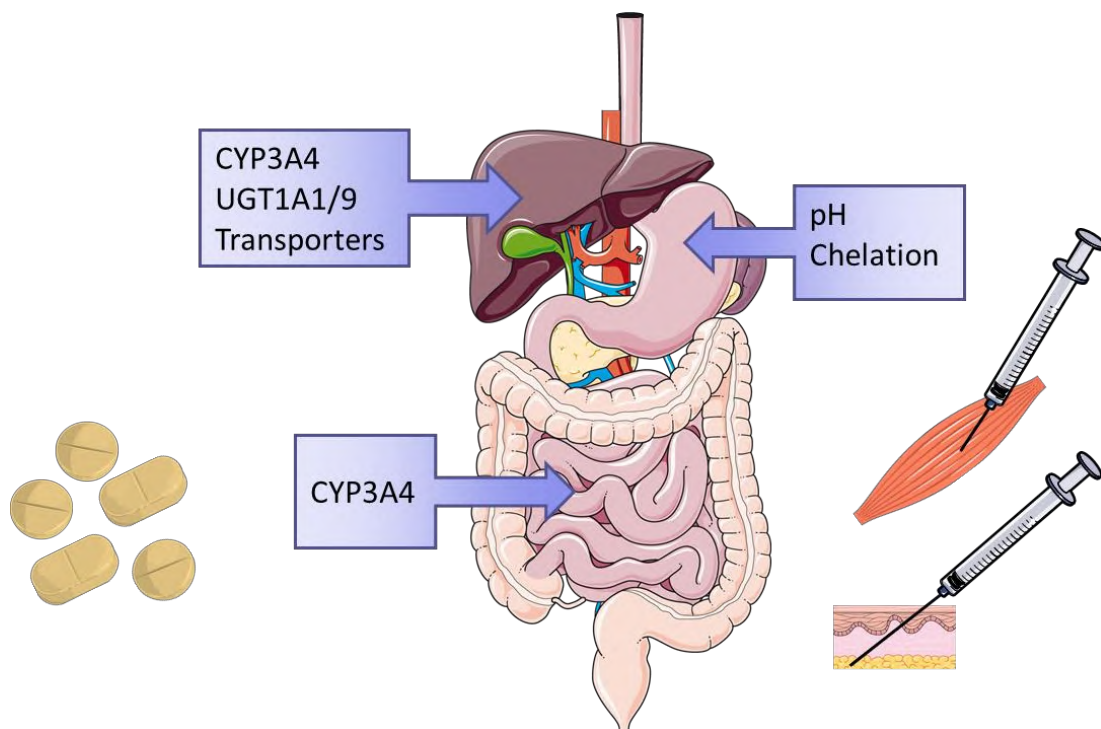
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Drug-drug interactions after oral and intramuscular/subcutaneous administration of cabotegravir, rilpivirine and lenacapavir

- Intramuscular (IM) or subcutaneous (SC) administration avoids drug-drug interactions at the gastrointestinal level.
- Drug-drug interactions can still occur with IM or SC administration.
- IM or SC administration does not necessarily mitigate the magnitude of interactions with inducers.

Mechanisms of drug-drug interactions with cabotegravir, rilpivirine and lenacapavir



Adapted from: www.smart.servier.com

	<i>Oral administration</i>	<i>IM/SC administration</i>
Stomach/intestine	<ul style="list-style-type: none"> • Change in gastric pH • Chelation with divalent cations • Inhibition/induction of CYP3A4 and transporters 	<ul style="list-style-type: none"> • Bypassed
Liver	<ul style="list-style-type: none"> • Inhibition/induction of CYP3A4, UGT1A1/9, transporters 	<ul style="list-style-type: none"> • Inhibition/induction of CYP3A4, UGT1A1/9, transporters

Examples of drugs interacting with oral but not IM/SC administration

<i>Cabotegravir</i>	<i>Rilpivirine</i>	<i>Lenacapavir</i>
Antacids	Antacids	Colestyramine
Calcium	Colestyramine	Orlistat
Colestyramine	H2 receptor antagonists	Sevelamer
Iron	Liraglutide	Strontium ranelate
Magnesium	Orlistat	
Multivitamins containing divalent cations	Proton pump inhibitors	
Orlistat	Sevelamer	
Sevelamer	Strontium ranelate	
Strontium ranelate		

Adapted from: Hodge D et al, Clin Pharmacokinetics, 2021.

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