



# Drug names and classifications

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# HIV drugs

- There are several categories of drugs used to treat HIV
- A combination of categories should be used
  - Mono therapy 1980's x
  - Dual therapy 1980's – 1990's x
  - Triple therapy 1990's onwards
  - Until recently when dual therapy and even mono therapy are being investigated again with the new drugs.

# Life Cycle of HIV

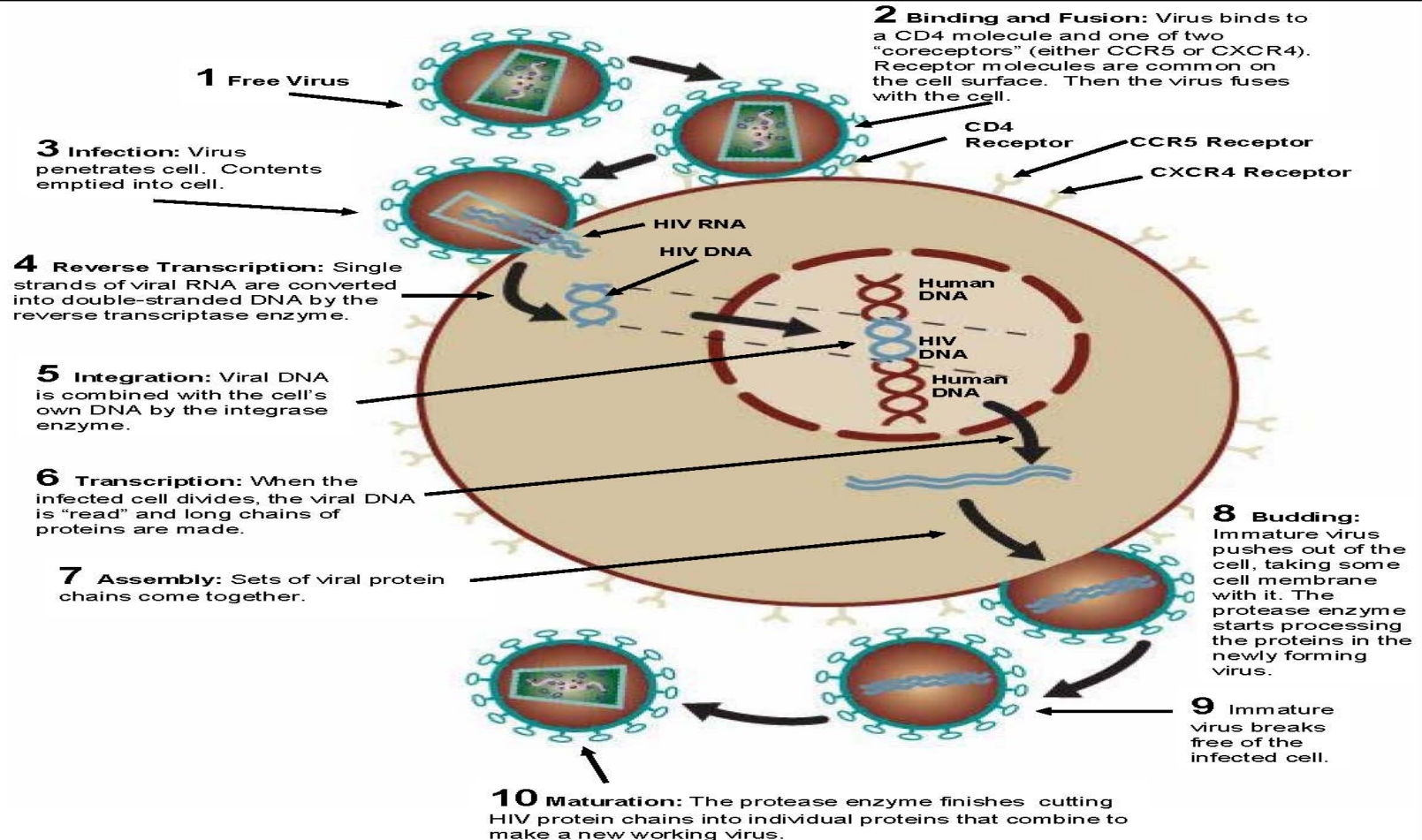


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## HIV LIFE CYCLE



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# Video of HIV Life Cycle

- <https://www.youtube.com/watch?v=FAizUZ5rF3Q>



# Naming the categories

- Using the sheet provided can you put the categories names into the headline section (this is the blue box)
  
- There is a clue by the amount of spaces for each drug name in each category . The first one has been done for you!



- Fixed dose combination (STR) single tablet regime
- Nukes; nucleoside or nucleotide reverse transcriptase inhibitors (NRTIs)
- Non-nucleoside reverse transcriptase inhibitors (NNRTIs)
- Integrase inhibitors (INIs)
- CCR5 Inhibitors (entry inhibitor)
- Protease Inhibitor (PIs)
- PK (pharmacokinetic) booster
- Attachment Inhibitor
- Maturation Inhibitor

- Now can you add in the names of each drug which belong to each category? Along with the recommend dose for adults, any restrictions (i.e. with or without food) and number of tablets taken? This is the green box.



Fixed Dose Combination (STR) single tablet regime

NAME		Restrictions and recommended dose	Amount of Tablets
Atripla		Take at night and not with high fat meal	1 tablet a day
Eviplera		Take with food	1 tablet a day
Stirbald		Take with food	1 tablet a day
Tri			1 tablet a day





Nukes; nucleoside or nucleotide reverse transcript inhibitors (NRTIs)

Single Nukes			
3TC		1 x 300mg or 2 x 150mg taken as once daily or twice daily dose	1 if 300mg 2 if 150mg
lamivudine			
Abacavir (Ziagen, Epzicom)		2 x 300mg tablets taken as once daily or twice daily dose	2 Tablets
FTC, emtricitabine (Emtriva)		1 x 200mg once a day	1 Tablet a day
Tenofovir DF (Viread)		1 X 300MG tablet once a day	1 Tablet a day
AZT zidovudine		1 x 250mg twice daily	2 tablets
ddi (Videx, Didanosine)		1 tablet a day either; 125, 200, 250 or 400mg) take on empty stomach 2hrs before eating	1 tablet a day
Dual Nukes			
Truvada (tenofovir and FTC)		One tablet a day	1 Tablet a day
Kivexa (Abacavir and 3tc)		One tablet a day	1 Tablet a day
Combivir (AZT and 3T)		One tablet twice a day	2 Tablets a day
Triple Nukes			
Trizivir (AZT +3TC+abacavir)		One tablet twice a day	2 tablets a day

Non-nucleoside reverse transcriptase inhibitors (NNRTI's)

Efavirenz		Not with high fat meal. 1x 600mg tablet or 3 x 200mg tablets at night	1 Tablet or 3 tablets depending on dose
Nevirapine 200mg (Viramune) Nevirapine 400mg (Viramune pr)		200mg once daily for first 14 days. Then 1 x 200mg tablet twice a day or 2 x 200mg once a day OR 1 x 400mg prolonged release tablet once a day	1 or 2 Tablets depending whether 200mg Or 400mg
Etravirine (Intelence)		1 x 200mg tablet twice a day take with food	2 Tablets a day
Rilpivirine (Edurant)		1 x 25mg tablet once a day with 500kcal)	1 Tablet a day



Integrase inhibitors (INIs)

Raltegravir (Isentress)		1 x 400mg tablet twice a day with or without food	2 Tablets a day
Elvitegravir (Vitekta) See also Stibild)		1 x 85mg tablet once a day (or 1 x 50mg tablet twice a day if drug resistance) With or without food	1 Tablet a day
Dolutegravir (Tivicay)		1 x 50mg tablet once a day or 1 x 50mg twice a day if drug resistance With or without food	1 or 2 Tablets a day



Entry Inhibitor (CCR5 inhibitors)

Maraviroc		150mg 300mg or 600mg as directed and depending on which other drugs are used	1 or 2 or 4 tablets a day
T20 (Fuzeon, enfuvirtide)		90mg injection under the skin twice a day	2 injections a day

Protease Inhibitors (PIs)

Atazanavir (Reyataz)		1 x 300mg tablet + a booster once a day with food. 150mg and 200mg are also available	1 Tablet plus a booster
Darunavir (Prezista)		1 x 800mg plus booster once a day or 1 x 600mg plus 100mg booster twice a day if resistance. Take with food	1 or 2 tablets (based on dose) plus boosters
Lopinavir (Kaletra) 200/50 or 100/25mg		2 x 200/50mg twice daily OR 4 x 100/25mg with or without food	4 Tablets using the larger dose OR 8 Tablets using the smaller dose
Foasamrenavir (Telzir)		1 x 700mg +100mg Ritonavir twice a day Take with or without food	2 Tablets a day plus booster
Saquinavir (Invirase)		2 x 500mg twice a day Take with food	4 tablets a day plus booster
Tripiranavir (Aptivus)		2 x 250mg twice a day take with food	4 Tablets a day plus booster

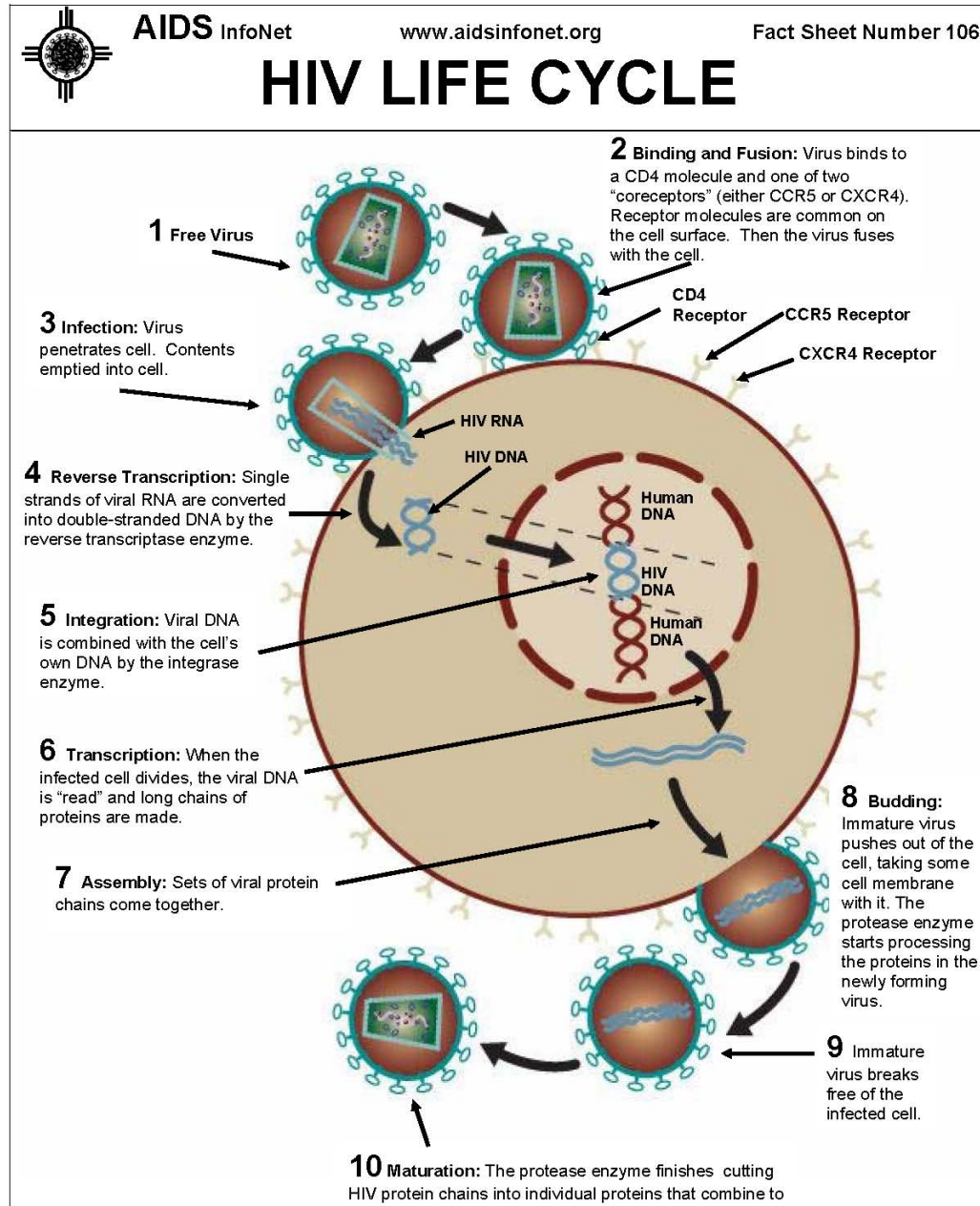


Pharmacokinetic boosters (PK)

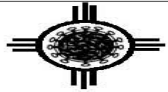
Cobicistat (Tybost)		150mg tablet once a day used to boost Atazanavir, Darunavir and Elvitegravir	Depends on boosted drug
Ritonavir (RTV) Norvir		100mg tablets used at different doses	Depends on PI drugs



- Can you name where each drug works on the life cycle of HIV?



# Nukes; nucleoside or nucleoside reverse transcriptase inhibitors (NRTIs)

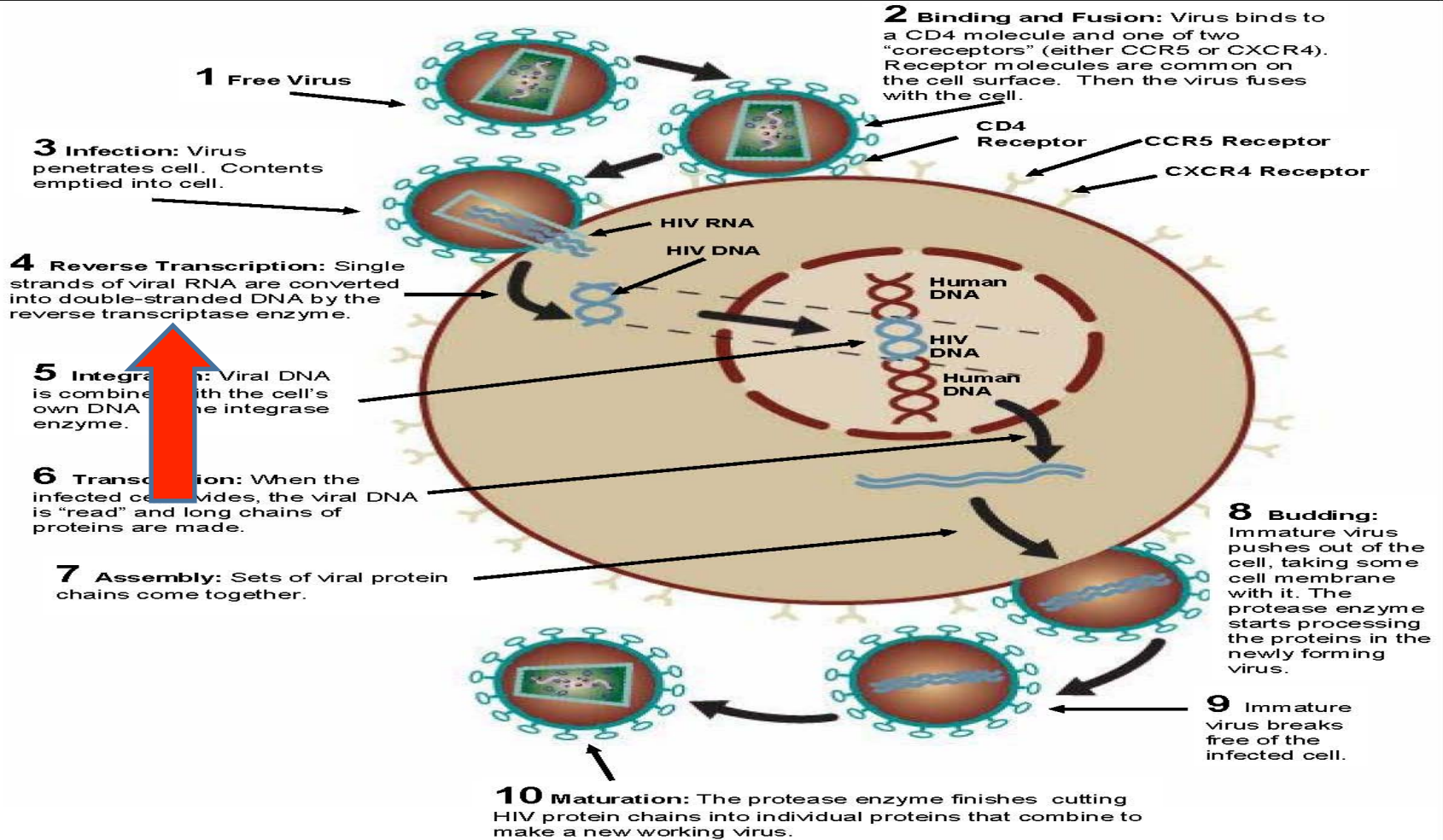


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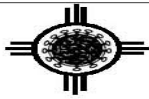
## HIV LIFE CYCLE



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# Non-nucleoside reverse transcriptase inhibitors (NNRTIs)

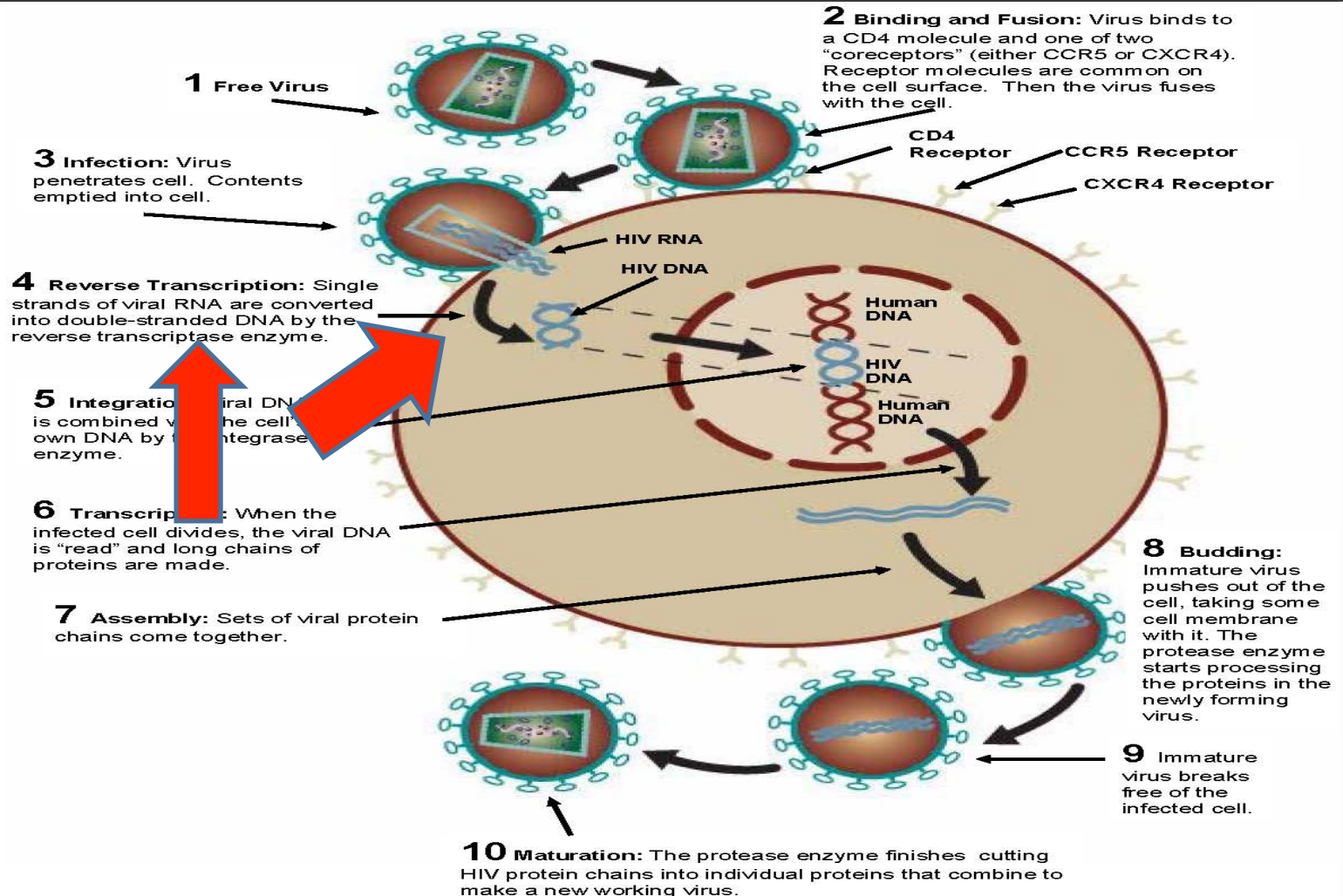


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STEP-UP:

# Integrase inhibitors (INIs)

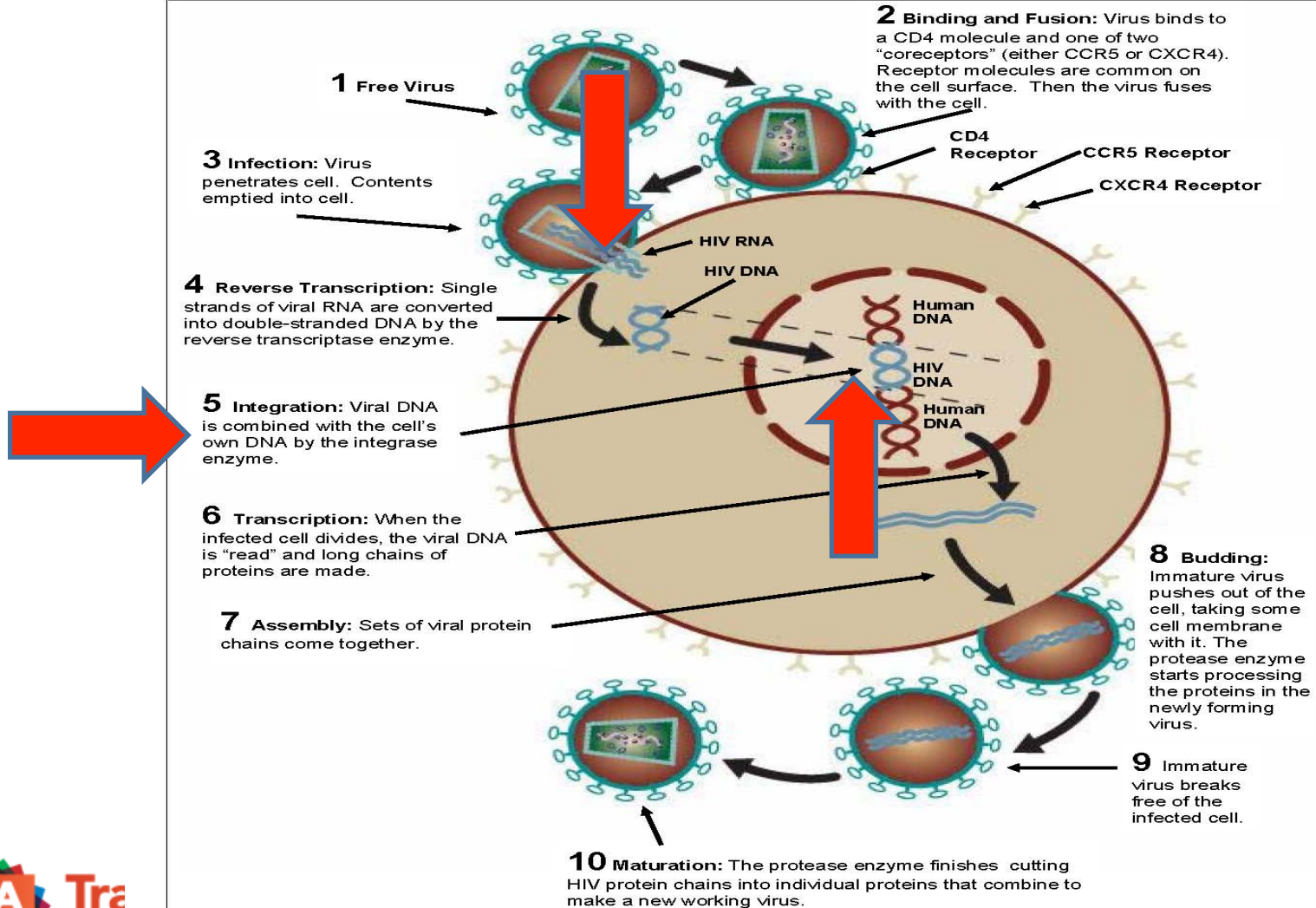


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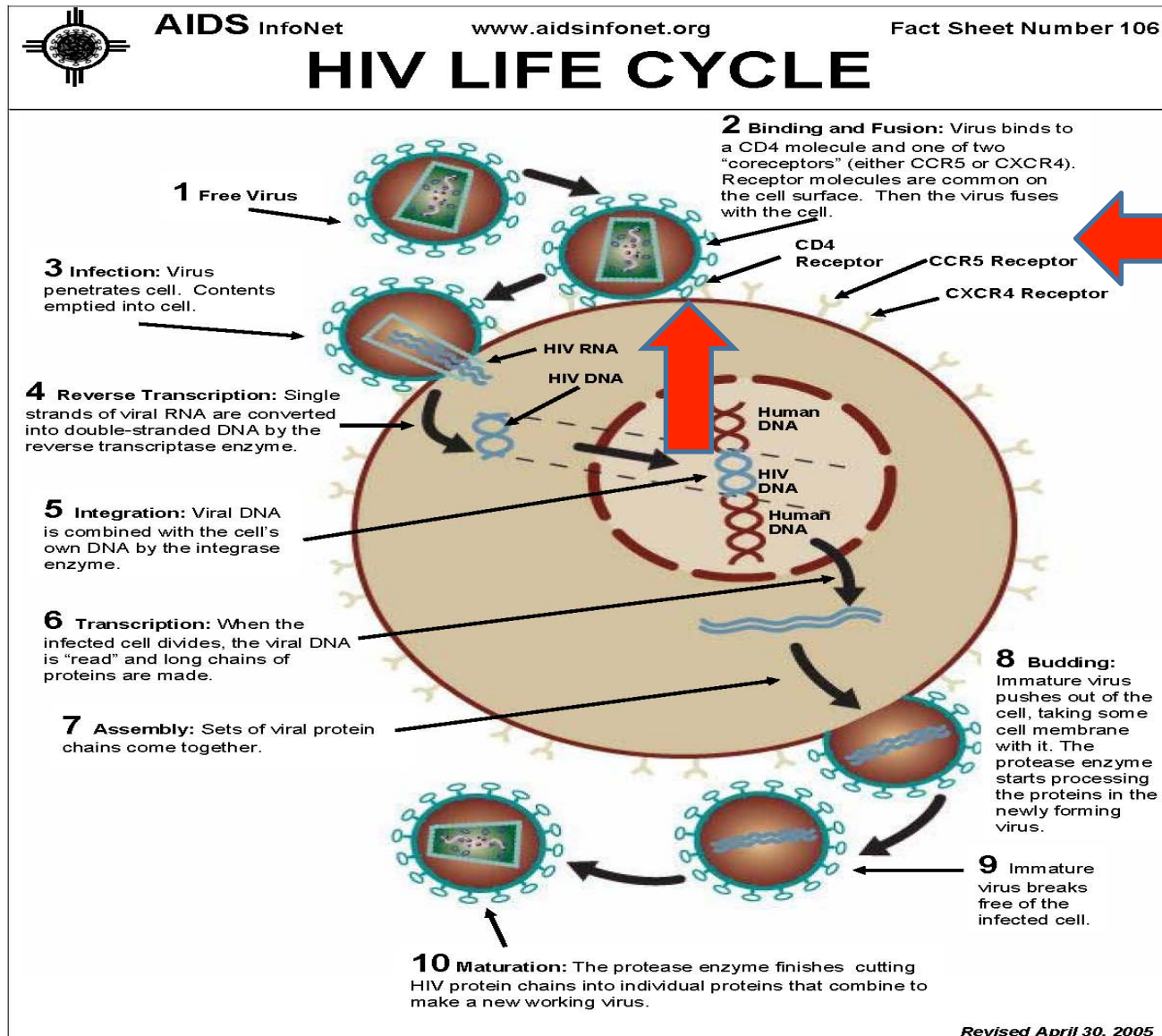
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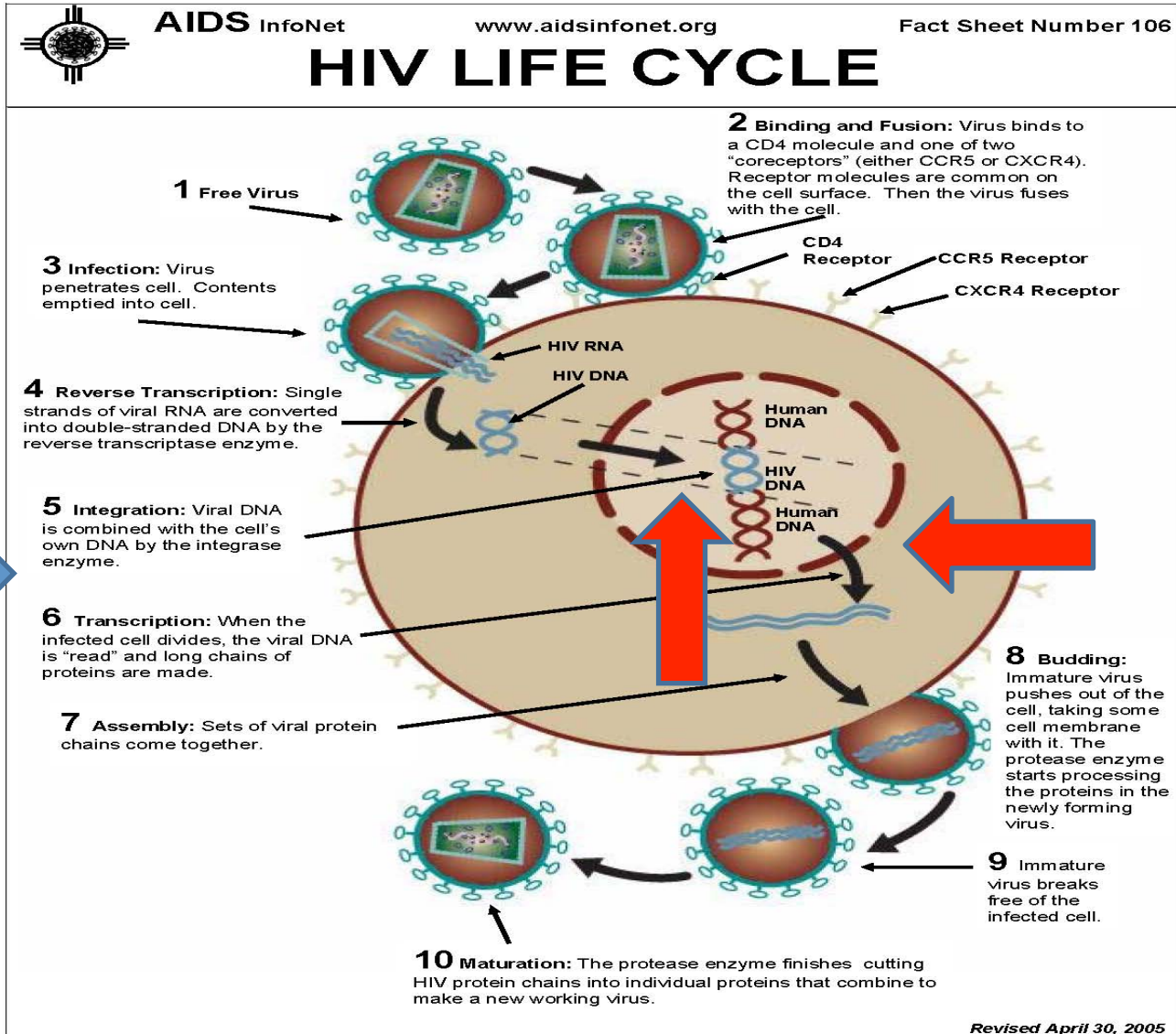
STEP-UP: Skills Training

# CCR5 Inhibitors (entry inhibitor)





# Protease Inhibitor (PIs)



# Drug names and classifications

- You should now have the full current (2015/16) list of drugs and classifications.
- <http://i-base.info/guides/category/arvs>
- <http://www.aidsmeds.com/>



# Thanks to;

- HIV i-base – a great resource in multiple languages

