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	AIDS AND OTHER IMMUNODEFICIENCY
	itoimmunity: emmune system attacking self cells.
- 9m	munodeficiency: Loss of symmune response due to weakoned immune system.
	ypes of ammunodeficiency—
ci) Pri	mary gmmunodeficiency
MO	gets: Ret 3 M · Hematopoience Stem cells - Reticul
Tar	enalar
	· sonate smmune system → Chronic
	Granulsmatms disease
	—> Leu kocyte-adtesion
	deficiency
	· Adaptive ammune system -> severe combined
	8mmunodefieieny
	(SUD)
	· B cells -> X-linked hyper-light syndrome
	• T cells —> Bare lyphocyte syndrome
> 2m	diseases will target the impaired Production of a
Par	ticular type of Ab.
Gen	etic orgin; present since birth.
Trea	tment -
	ung missing protein
[1981년 : 1982년 - 11일	igh injecting Abs.
열심 보이 얼마를 보면 하는데 그래 없는 하는데 하는데	ress gene in vitro

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>	Replacing missing cell type	
•	Bone marrow transplantation	
->	Replacing missing or defective gene	
	Gene therapy .	
Ció	secondary ammunadeficiency	
4	Acquired ammunodeficiency	
	No genetic & basis	
->	Eg: Hypogammaglobulinemia AIDS	
	AIDS - HIV 3-	
	[Acquired smmunodeficiency syndrome - Human smmunodeficiency vinus]	
	HIV:	
*	It has two surface glycoprofeins: 9P120, 9P41	
*	9P120 -D binds to CD4 receptors (mainly TH Cells)	
	9P41 -> binds to Chemokine receptors (mainly TH cells)	
*	Through 9P120 & 9P41, HIV attaches & to host TH cells &	
	infects it.	
<del>k</del>	HIV is a downder DNA ds-RNA Virus (2 copies) ex	
*	Genome is protected by capsid Protein (p24) and matrix	
	Protein (p17).	
*	It also have PIO protease p32 Integrase & p64 Reverse transcriptate	
*	Integrase (p32) - D helps newly synthesized Napola to	
	integrate into host DNA proteins	
	Protease (p10) - Cleaves newly synthesized viral DNA	
	and make them active viral	
	Reverse transcriptase (p64) -> converts viral RNA to Mindrestan	
	Pro-virus: viral pNA integrated into host genome.	
*	1 Pro-VIME: VILOR DINH MARRIAGED MILO MOSE SCHOTTIE.	

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	Pro-virus has 3 imp structural genes gag por env
*	and - Day was 101 fractions
	capsid protecus) that surround the genome
	PDI - Codes for reverse transcriptase integrase
	the professe proteins.
	env -> codes for surface 91400 Profesions (9P120, 9141)
*	The transcription of the pro-virus frequires two
	transcription factors: NF-KB, NF-AT
-	upon activation of these factors they will transcribe
-	Pro-virus DNA leading synthesis of mkNA that
-	results in Production of Viral Proteins.
*	viral Protrins are assembled inside the cells
	and new virious will be released.
A	Major drawback in AIDS: For a ling period (5-10 year)
	symptoms will not asise so diagnosis takes place only
	at end-stage of the disease making it difficult for
	cuing.
	CONTINUE.
	Treatment:-
1)	
	eg: AZT ( Azidothymioline)
	LA targets Reverse transcriptase
	W limits: not elected as a sum of only all
	whele wind own cown hasn't been megrale
	and the last of the
	eg: HAART (Highly active Antiretronical therapy)
	LA COCKTAIT Of viral Protease inhibitors
NOTE:	These doings again not rough
	These drugs can not remove the <u>Pro-virus</u> .

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2)	vacune
	Challenges: • HIV mulates rapidly
	· Even neutralizing Abs can't prevent inal spread
	· Do not have good animal models to test
	the vaccines.

