

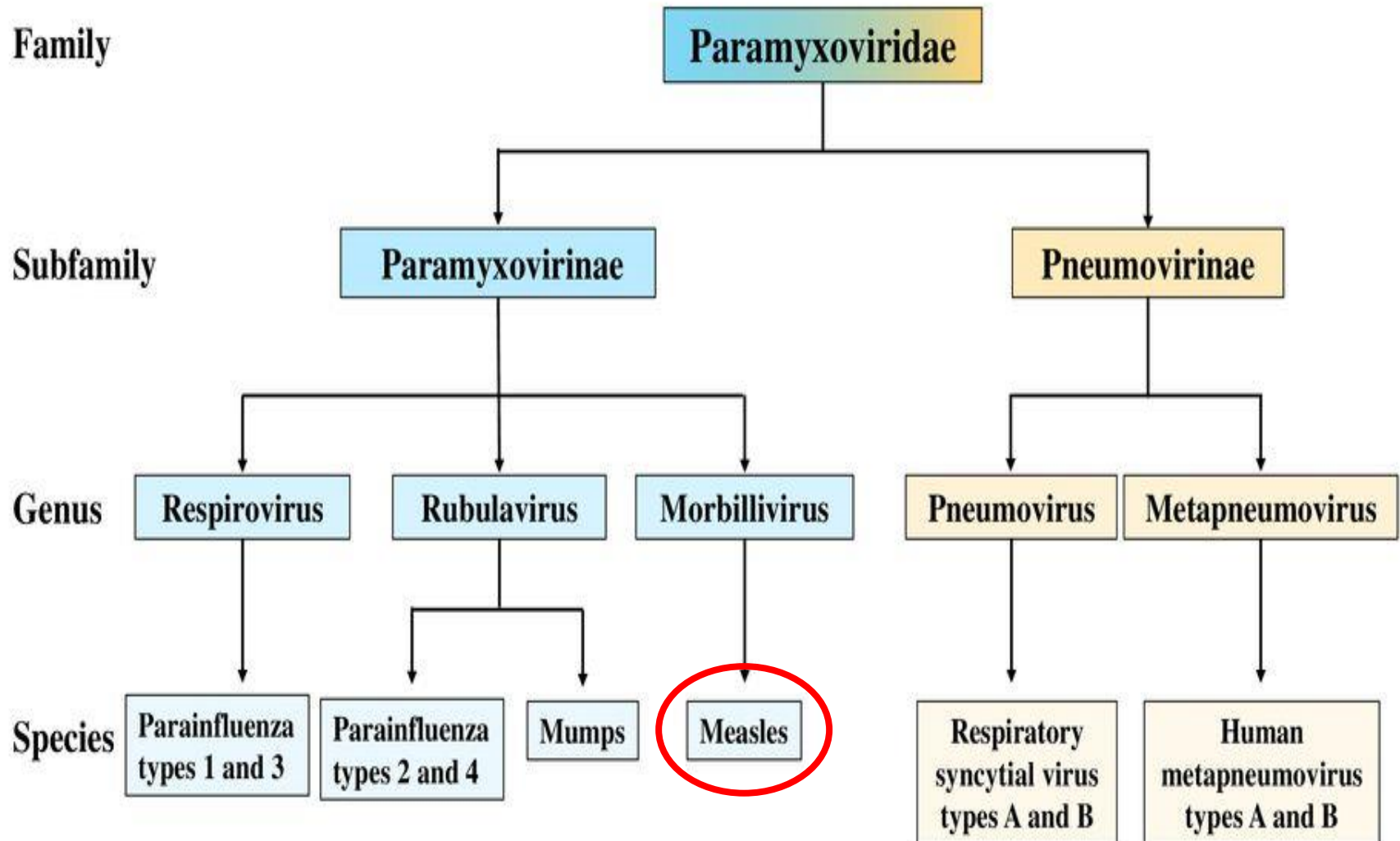
Measles virus Infection in Children

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Dezful University of Medical Sciences



Classification of Viral Pathogens of the Paramyxoviridae Family That Infect Humans



Order

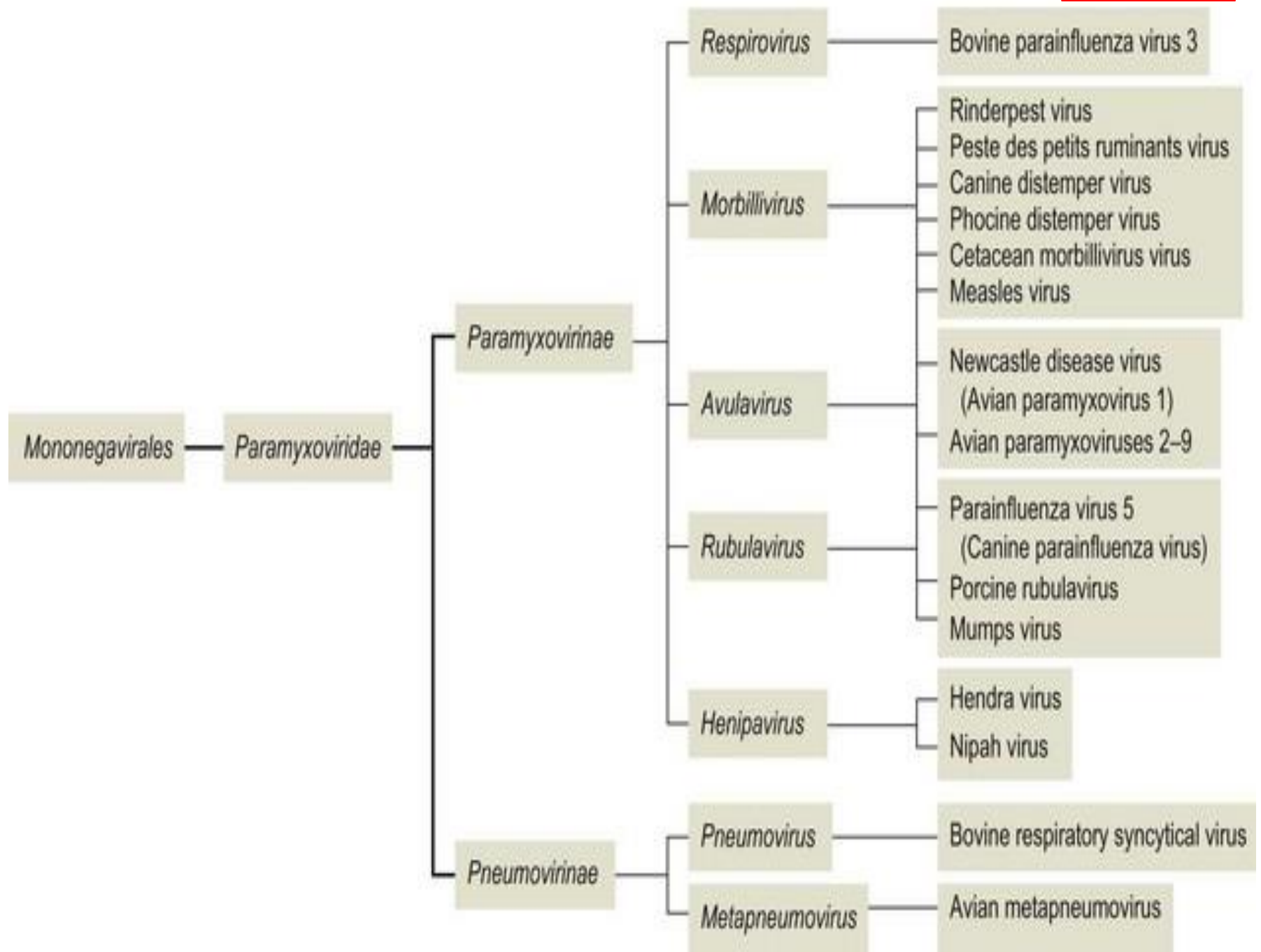
Family

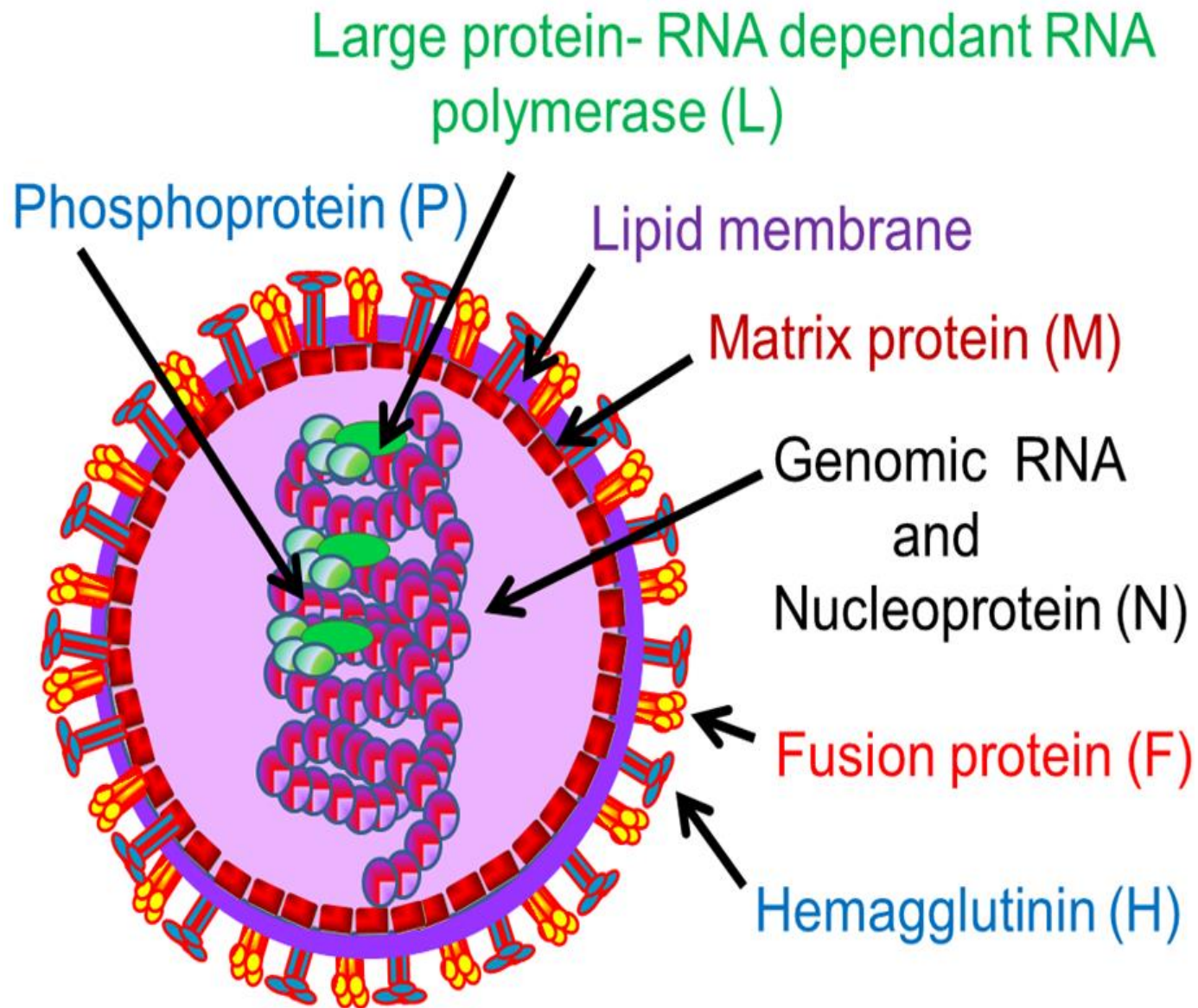
Subfamily

Genus

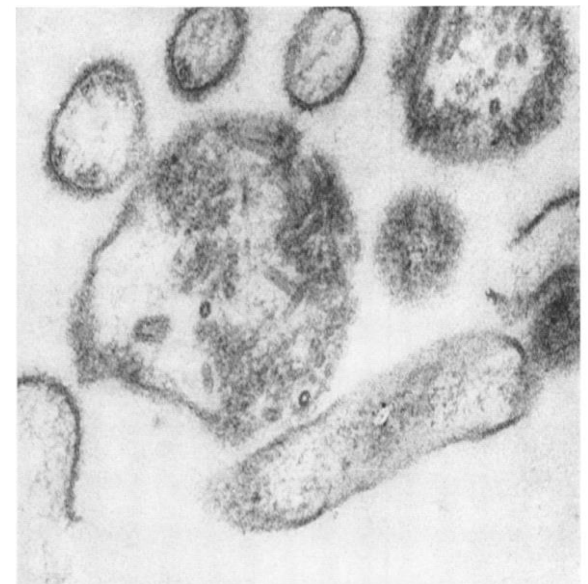
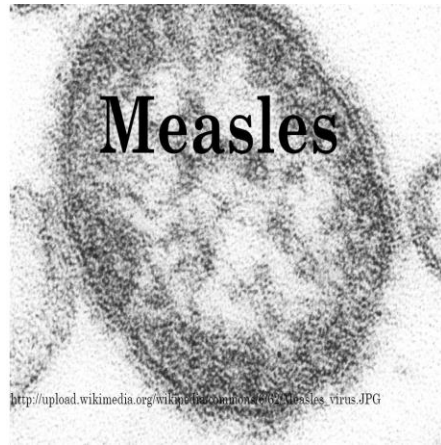
Virus

In Animal





The Measles virion



Paramyxovirinae

Rubulavirus - Simian virus 5 - 15246 nt



Avulavirus - Newcastle disease virus - 15156 nt



Respirovirus - Sendai virus - 15384 nt



Henipavirus - Hendra virus - 18234 nt

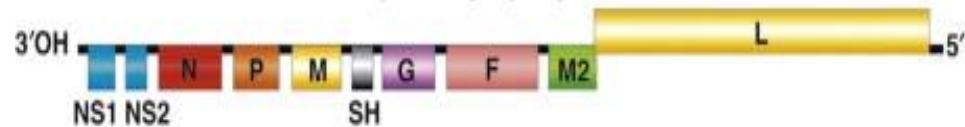


Morbillivirus - Measles virus - 15894 nt



Pneumovirinae

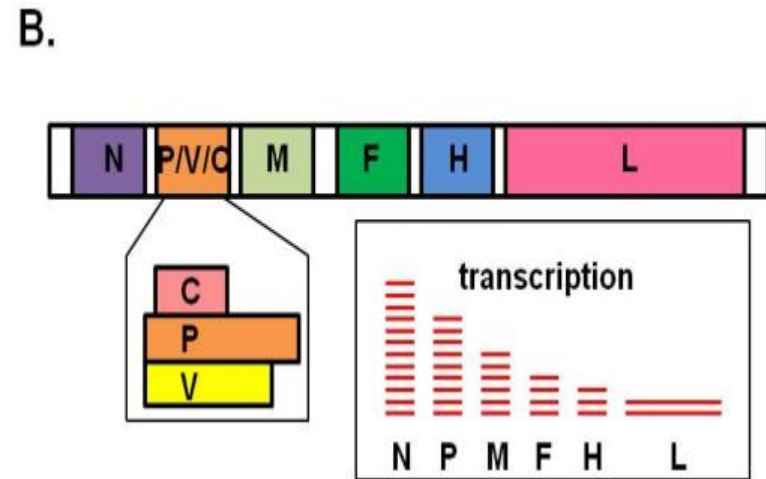
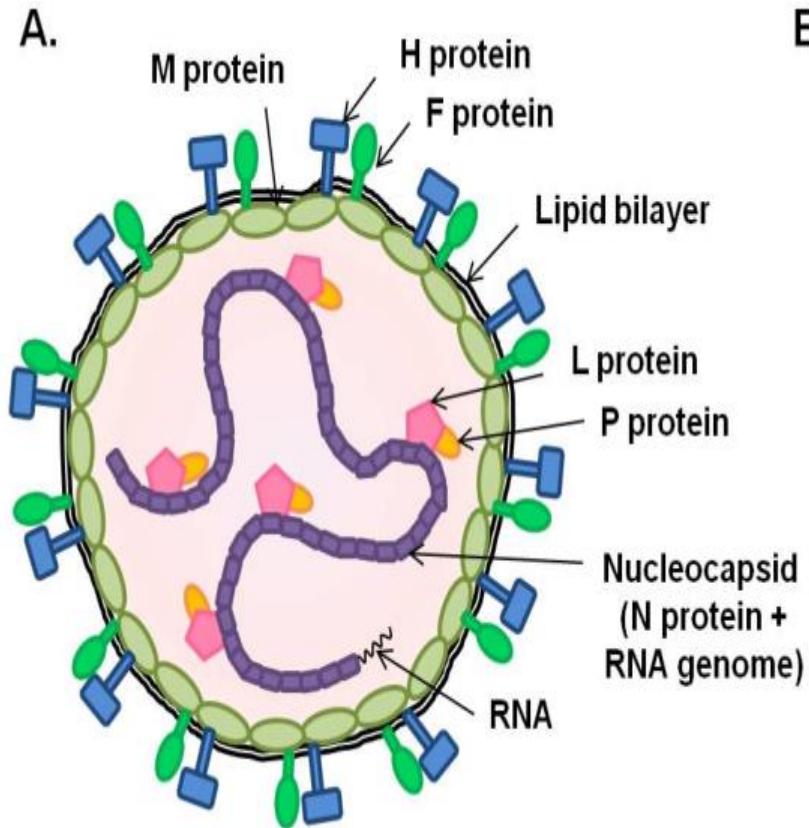
Pneumovirus - Human respiratory syncytial virus - 15222 nt



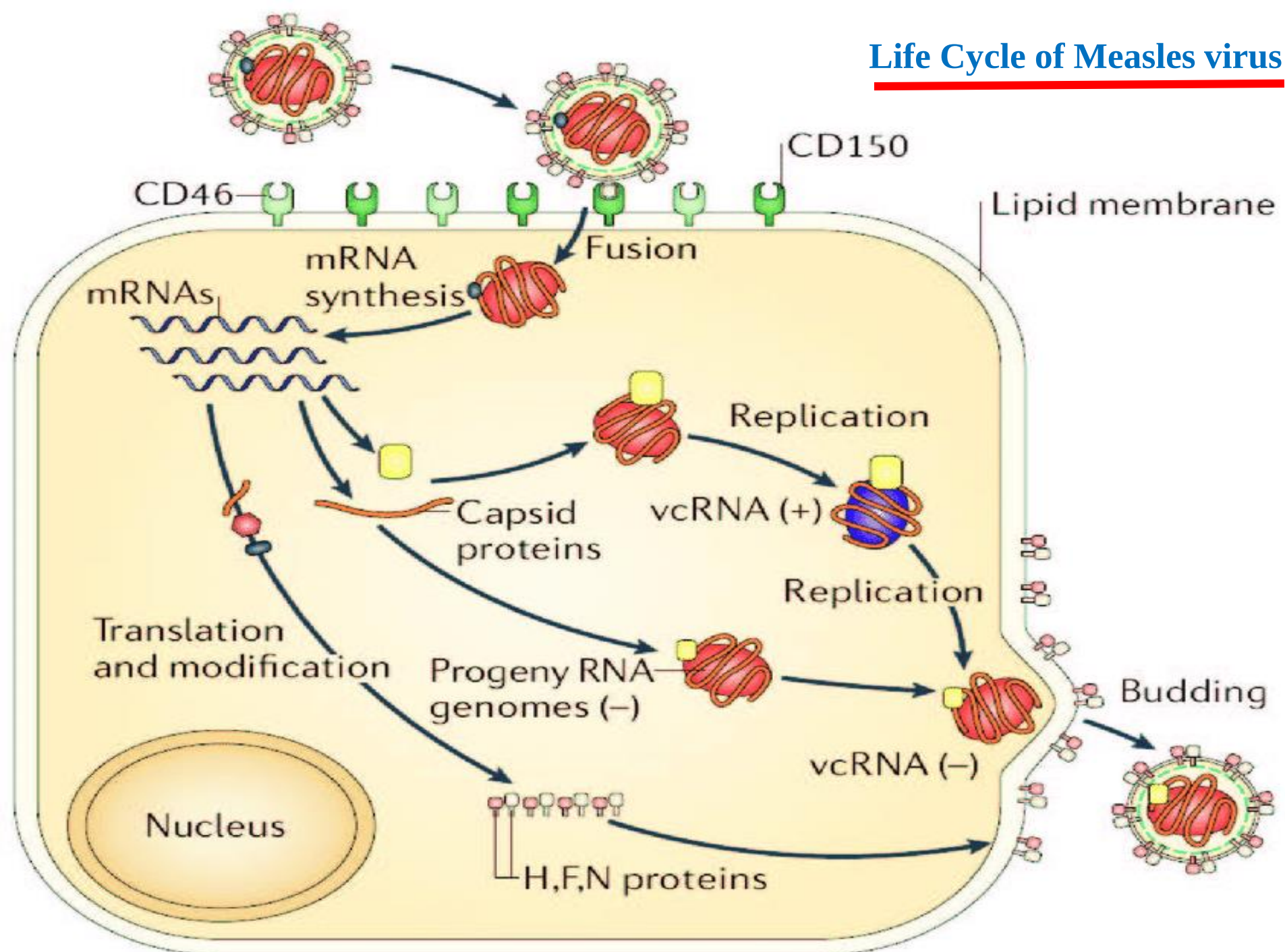
Metapneumovirus - Human metapneumovirus - 13350 nt



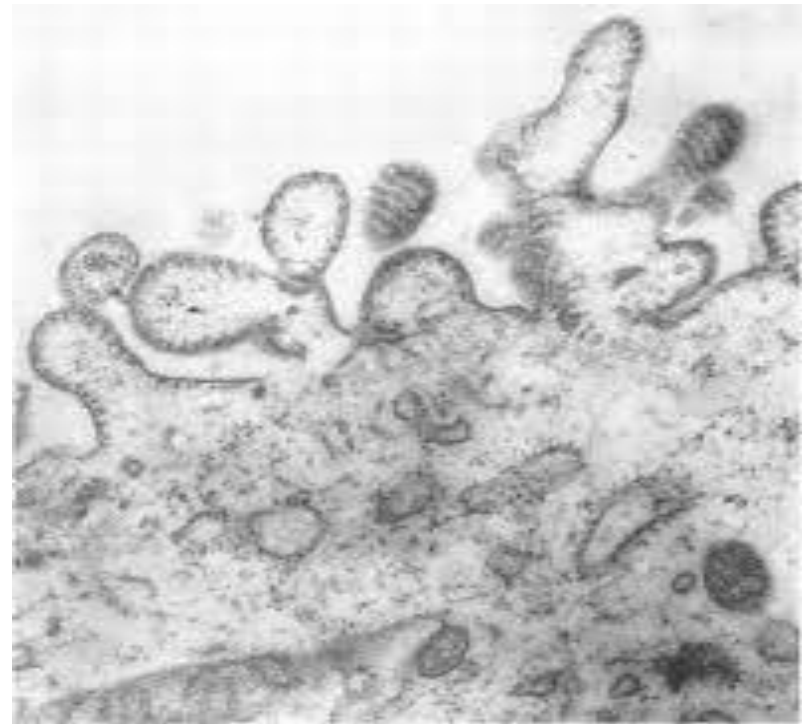
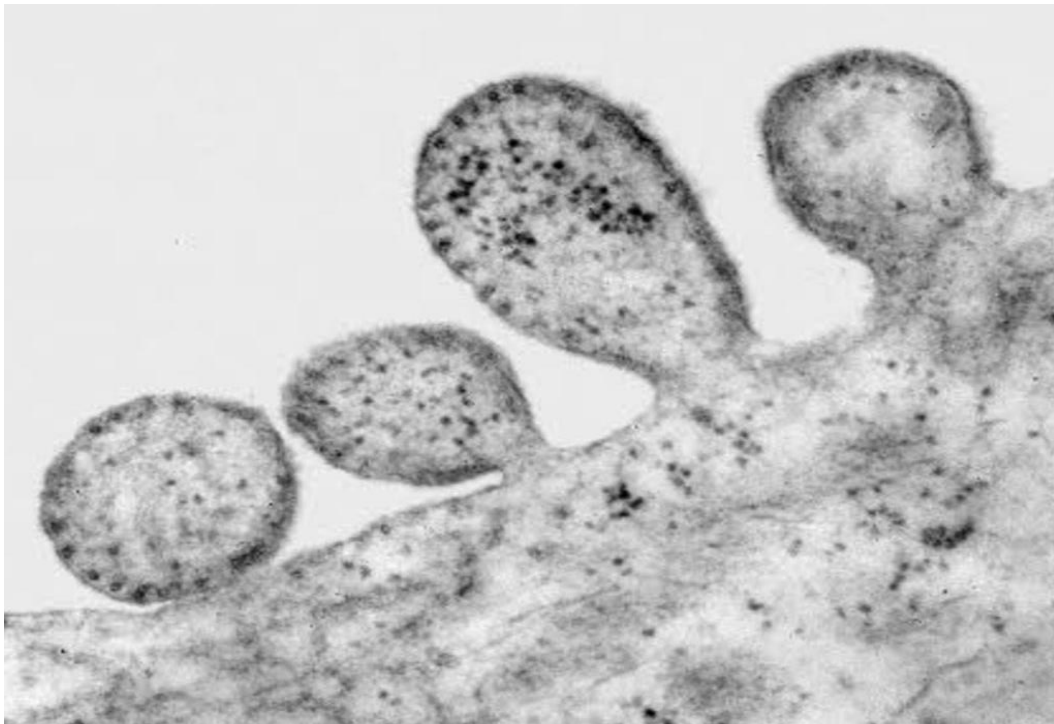
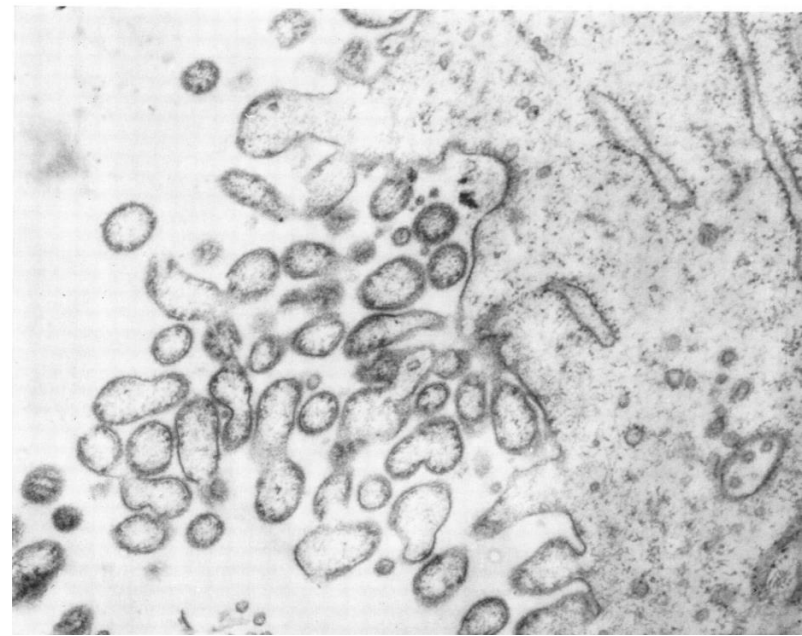
Measles Virus Transcription



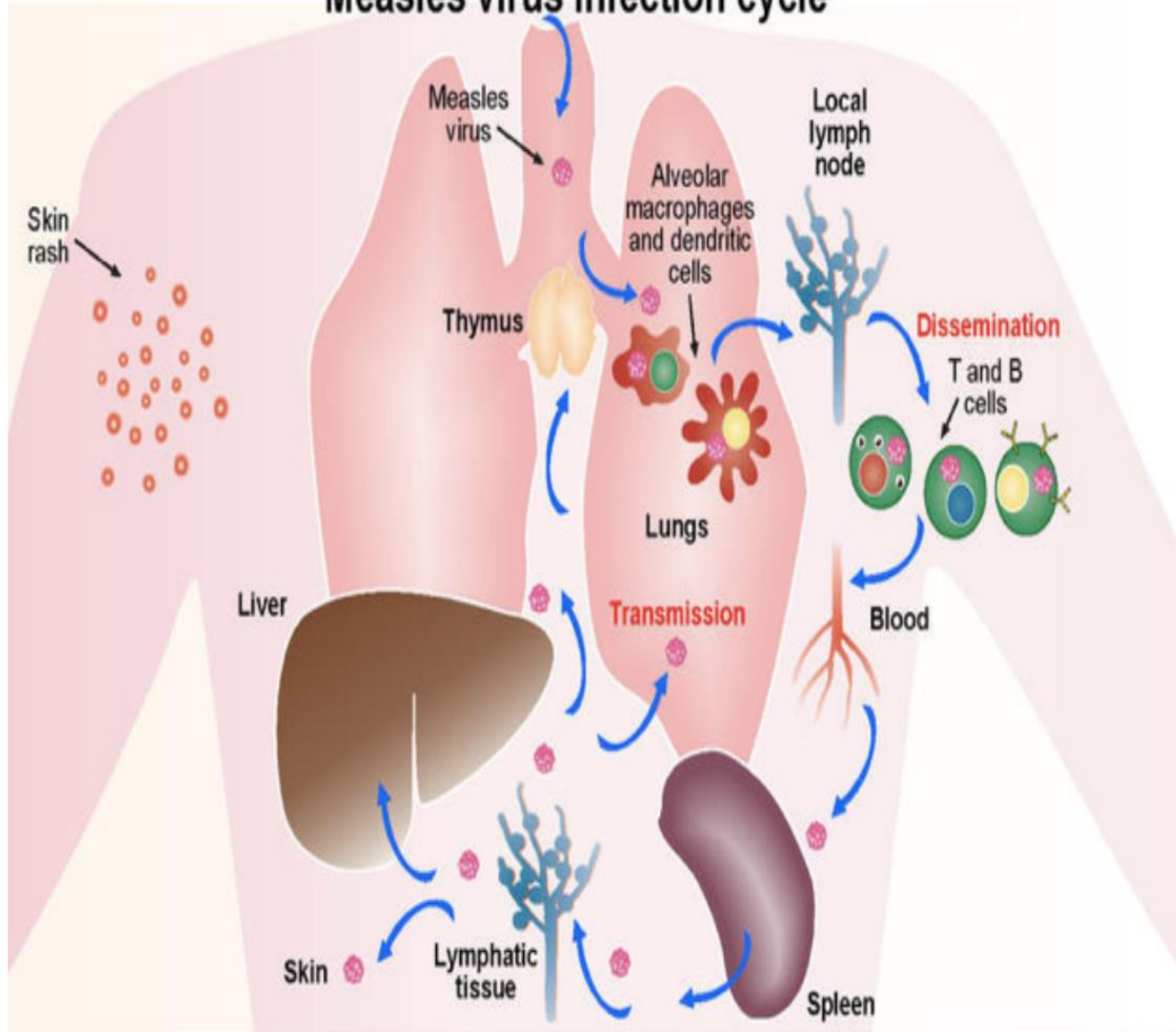
Life Cycle of Measles virus



Budding of Measles Virus



Measles virus infection cycle



Measles

First disease, morbilli

Pathogen

Paramyxovirus

Course

Improvement of exanthem with fine desquamation after 4–5 days

Complications

Subacute sclerosing panencephalitis (SSPE)

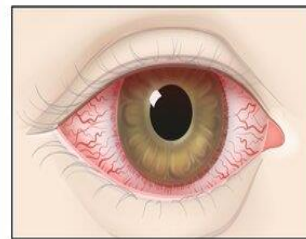
Measles encephalitis

Treatment

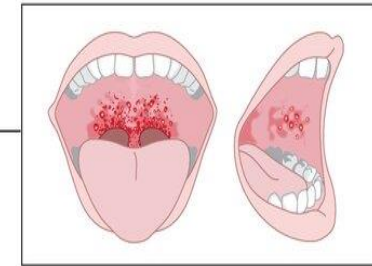
Symptomatic

Vaccine

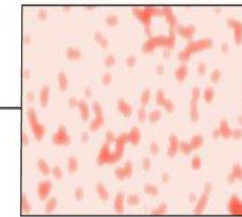
Yes



Conjunctivitis

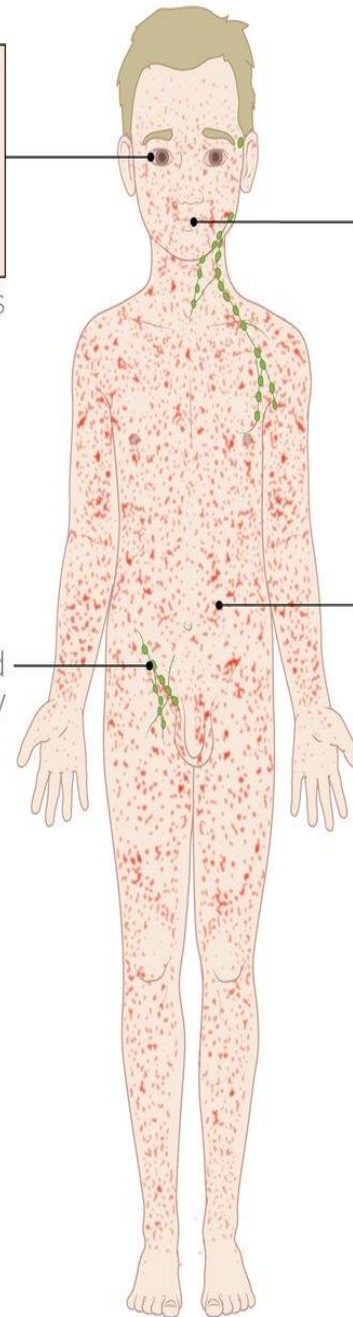


Enanthem on palate and Koplik's spots



Exanthem
(Erythematous, maculopapular, blanching, partially confluent)

Generalized lymphadenopathy



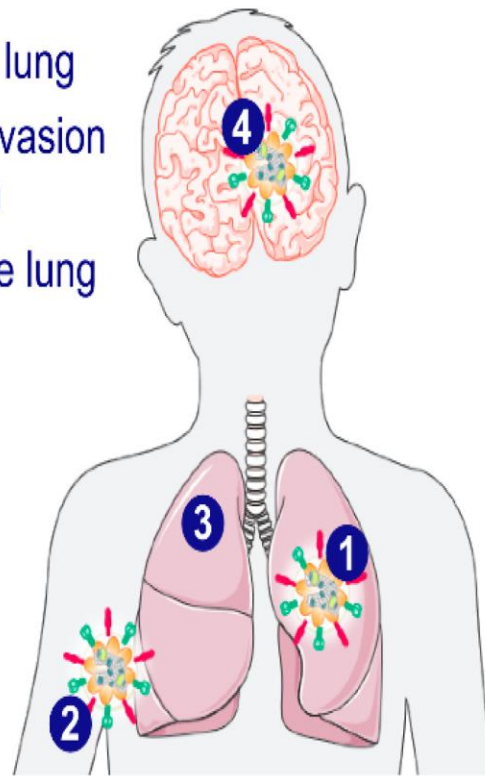
Course of disease



Further symptoms

- ☹ Reduced general condition
- 🌡 High fever (biphasic)
- 📢 Barking cough

- (A)
- 1) APC infection in the lung
 - 2) Lymphoid tissues invasion immunosuppression
 - 3) Acute infection in the lung
 - 4) Encephalitis



4a) APME :

No evidence of virus in the brain

4b) MIBE :

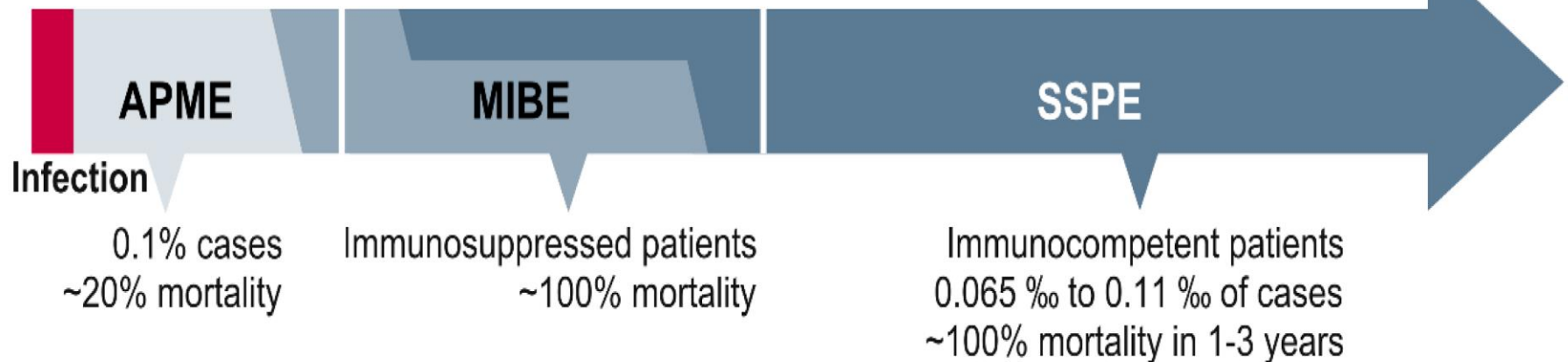
CNS infection + global infection

4c) SSPE :

CNS infection

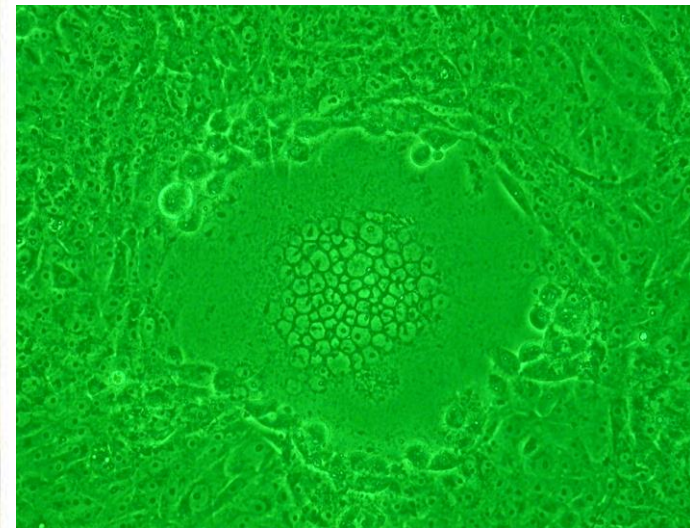
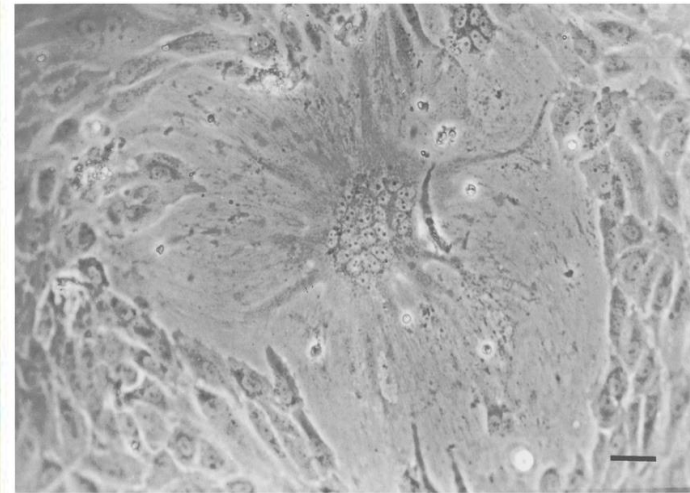
Antibodies in the serum and cerebrospinal fluid

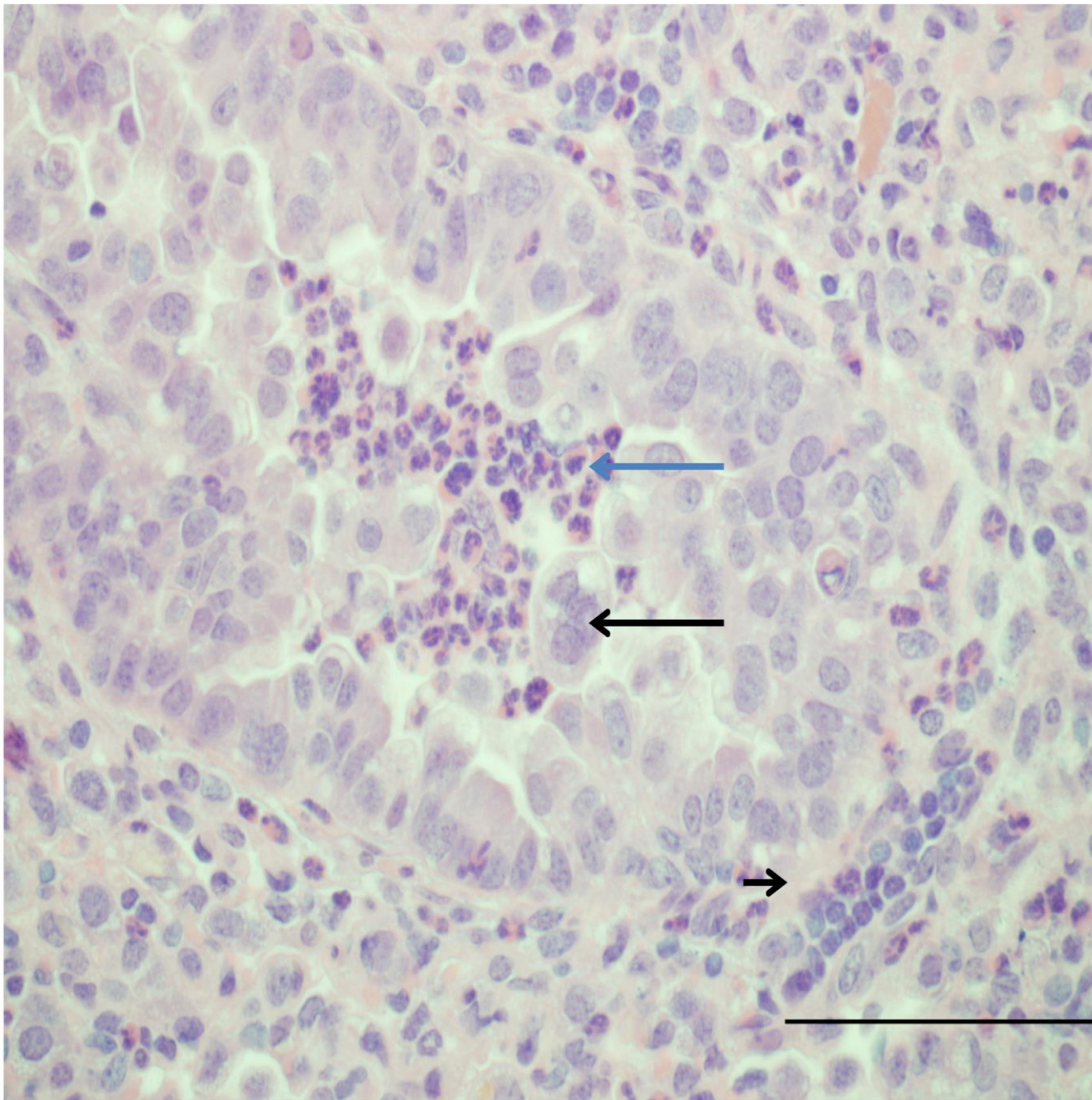
(B) 1 day 7 days 1 month 6 months 23 years



Cytopathic effect:

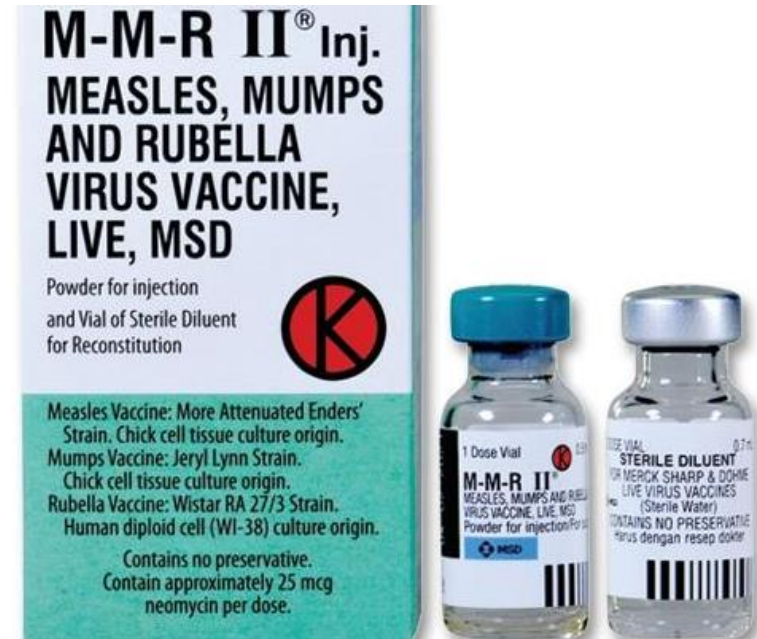
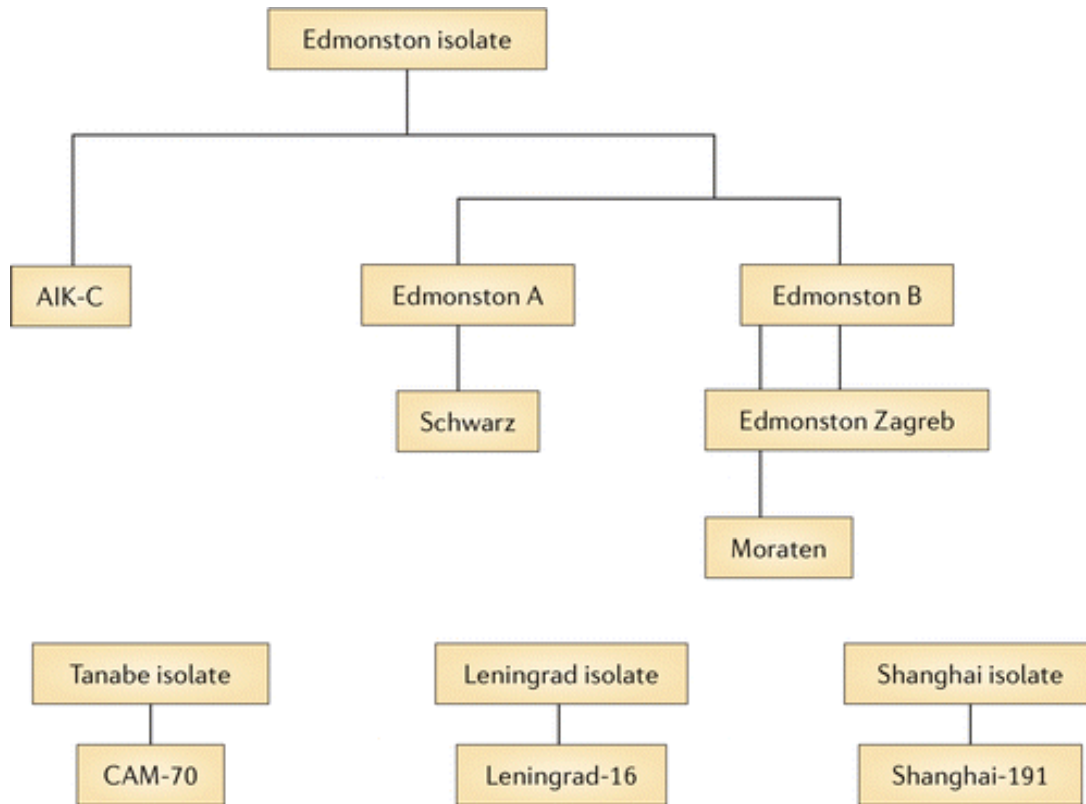
measles-induced syncytium from giant cell pneumonia





Intranuclear and Intracytoplasmic Inclusion Bodies in Measles Infected Cells

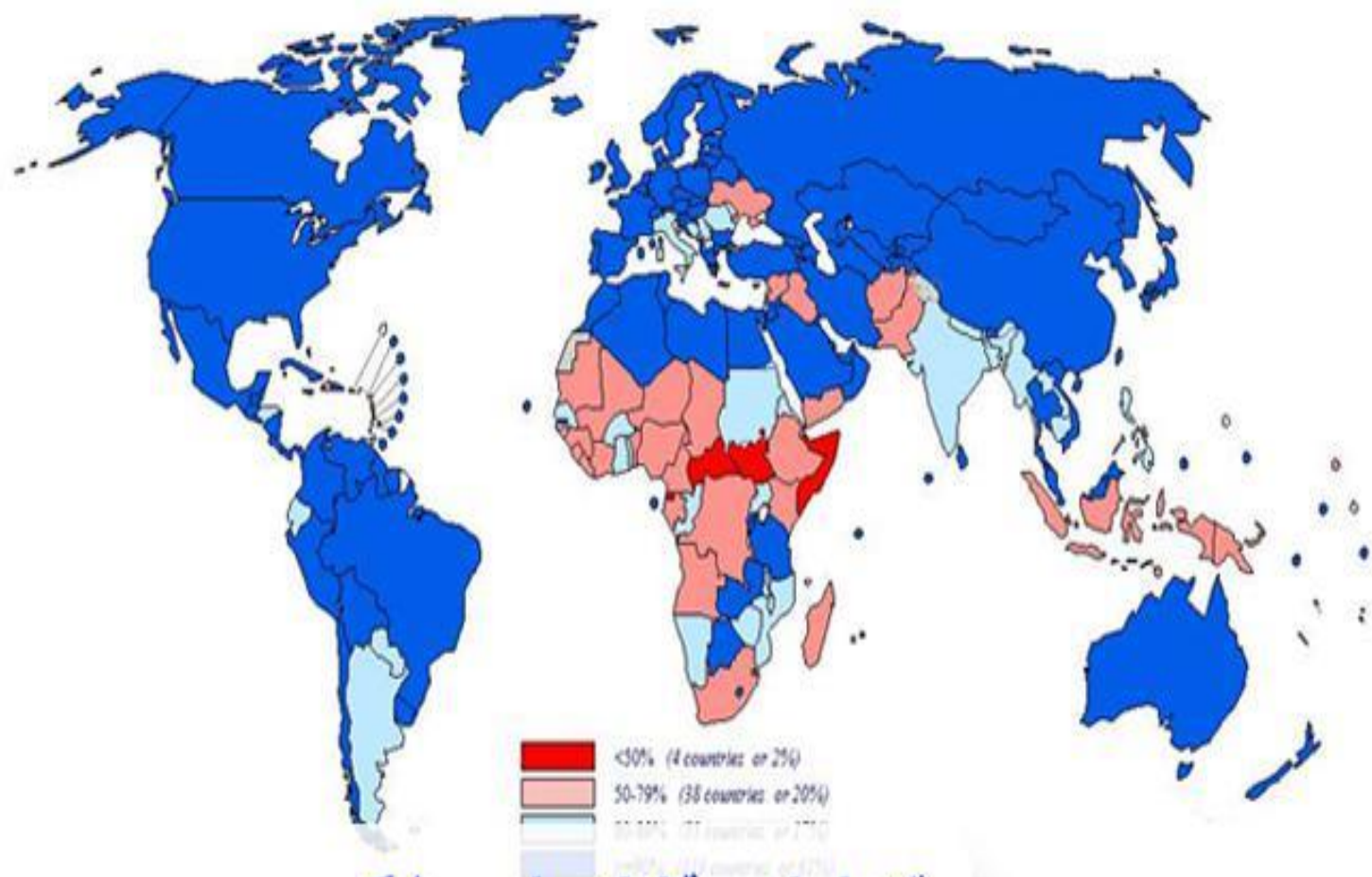
تولید واکسن سرخک در انسیتو رازی



برنامه ایمنسازی کودکان ایران

سن	نوع واکسن	
بدو تولد	BCG – OPV Hep.B	
2 ماهگی	DTP - OPV Hep.B	
4 ماهگی	DTP - OPV	
6 ماهگی	DTP – OPV Hep.B	
12 ماهگی	MMR	
18 ماهگی	DTP – OPV - MMR	
6 سالگی	DTP - OPV	تکرار واکسن دوگانه بزرگسالان هر 10 سال





تنها راه مقابله با سرخک

ایجاد ایمنی جمعی از طریق واکسیناسیون است

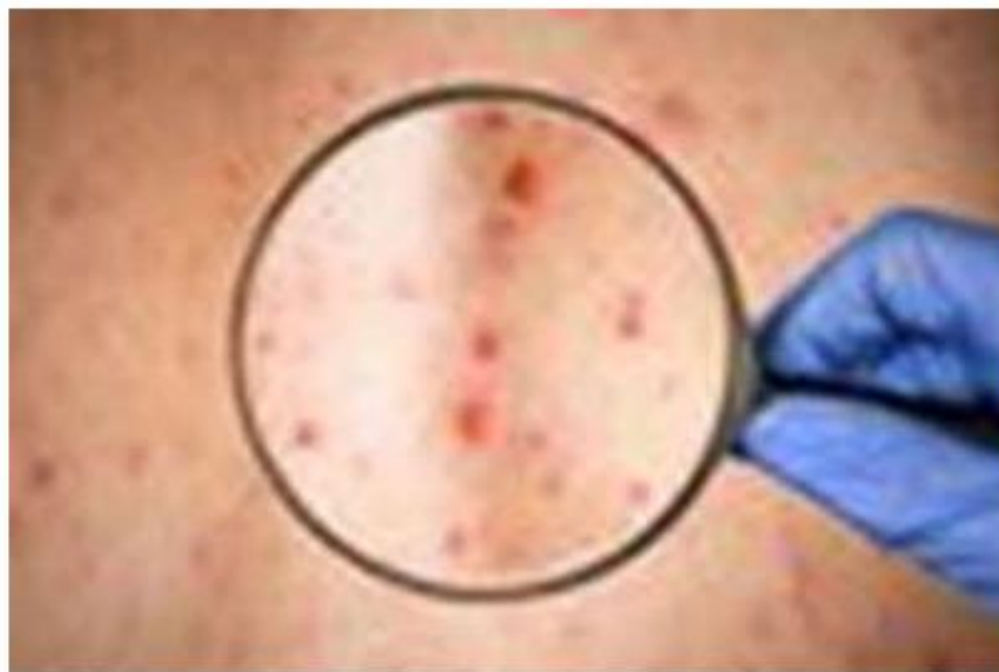


تاریخچه واکسیناسیون سرخک در ایران



حذف سرخک و سرخجه در جمهوری اسلامی ایران مورد تایید سازمان جهانی بهداشت

سند کشوری تاییدیه حذف سرخک و سرخجه در دو نشست پیاپی کمیته منطقه ای حذف سرخک و سرخجه منطقه مدیترانه شرقی سازمان جهانی بهداشت در تاریخهای ۱۴ و ۱۵ می و ۳ و ۴ اکتبر ۲۰۱۹ مورد بحث و بررسی قرار گرفت و به ترتیب در هر یک از جلسات حذف سرخجه و سپس سرخک در جمهوری اسلامی ایران مورد تایید قرار گرفت.





هشدار وزارت بهداشت ایران
درباره شیوع سرخک

'اگر کودک زیر ۵ سال دارید برای
واکسیناسیون او اقدام کنید'

A photograph taken from the interior of a cave, looking out through a large, irregular opening. The cave's interior is dark and textured with brown rock. Outside, a dense forest of tall, thin trees with vibrant green foliage fills the background. On the left side of the frame, a waterfall cascades down a rocky ledge. The foreground inside the cave is a smooth, sandy floor. Overlaid on the bottom right of the image is Persian text in white with a reflection effect.

از حسن توجه شما سپاسگزارم