Neurodevelopmental findings in HIV kids:

Impairments in language, especially expressive language. Behavioral symptoms: irritability, lack of social skills, repetitive actions (rocking etc all familiar sounding). Note: memory and visual information processing (visual intelligence) are NOT impaired.

Sometimes children develop normally and regress later, usually between 1.5-2 years of age. This is often linked to increased HIV viral load and/or reactivation.

Now see this: language and behavior often recover when children are given combination antiretroviral treatments, at least to some degree. Sometimes recovery is complete.

No mention of the A word. This is called pediatric neuroaids or 5 other vague names.

Latent HIV virus can be reactivated by vaccinations.

Live virus vaccines, especially MMR, often come with a warning for HIV infected individuals inability to mount appropriate immune responses results in vaccine virus persistence. For example polio vaccine strain has been found alive and well in guts of vaccinated individuals. No antibody production to DTP or measles viruses etc.

Gastrointestinal findings in HIV positive children:

Leaky gut and malabsorption of nutrients

Lack of digestive enzymes (impaired pancreatic function)

Abnormal reactions to gluten and casein !!

Lactose intolerance

Sugar intolerance

Inability to digest complex carbohydrates

Inability to absorb fats and proteins
Gastrointestinal pathogen overload: secondary intestinal viruses, bacterial overload.

Abnormal immune reactivity to candida albicans.

Impaired fine and gross motor skills in HIV positive children

Impaired sensory auditory and visual processing

Subclinical hypothyroidism (in adults, no data on children)

HIV causes calcium overload and mitochondrial dysfunction

HIV causes oxidative stress and glutathione depletion

HIV is inhibited by glutathione and agents that raise glutathione

HIV causes microglial activation and inflammation

HIV alone or combined with bacterial agents causes breakdown of the blood brain barrier

And this: chelation of metals inhibits HIV virus integration into human DNA.

Retroviruses (HIV is a retrovirus) in general are desintegrated by chelation agents.

Retroviruses use metal complexes to integrate into human DNA

Tetracycline antibiotics (minocycline is one) inhibit HIV through same mechanism as chelation agents