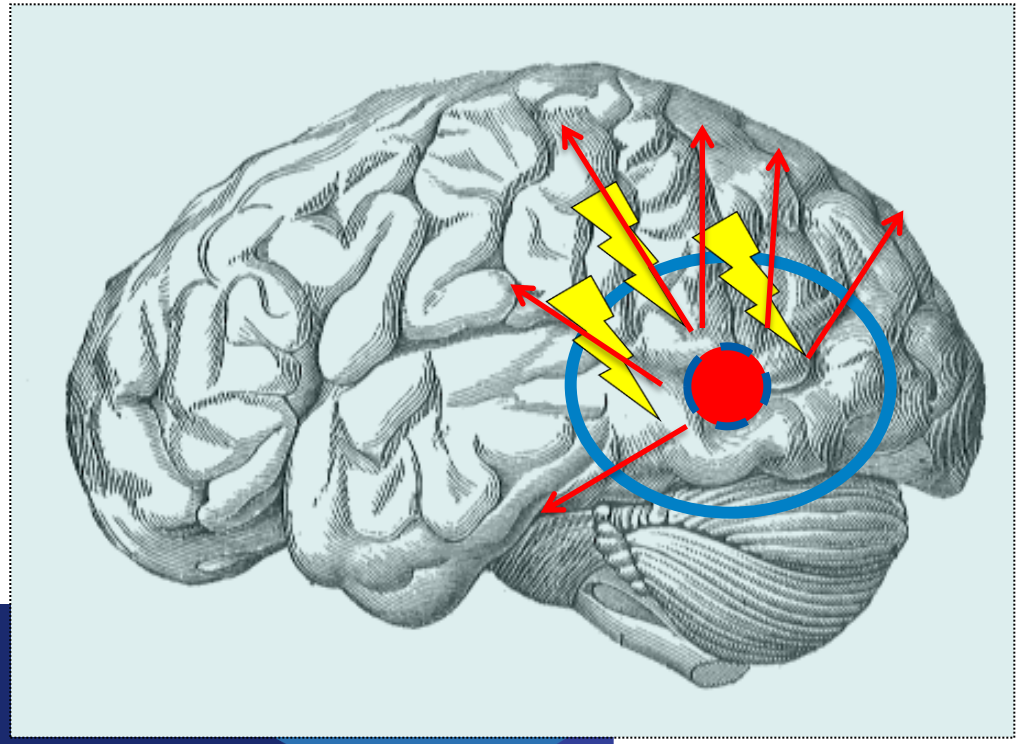
Hersencentrum

nieuwe classificatie van epilepsie

Floor Jansen

epileptische aanval

plotselinge kortdurende stoornis van de hersenen door een acute overmatige prikkeling van cellen in de hersenschors gepaard gaande met waarneembare verschijnselen



epileptische aanval

acuut = uitgelokt

- acute hersenschade
- andere ziekte
- < 7 dagen

chronisch = epilepsie

- niet uitgelokt
- > 2 aanvallen
- < 1 jaar

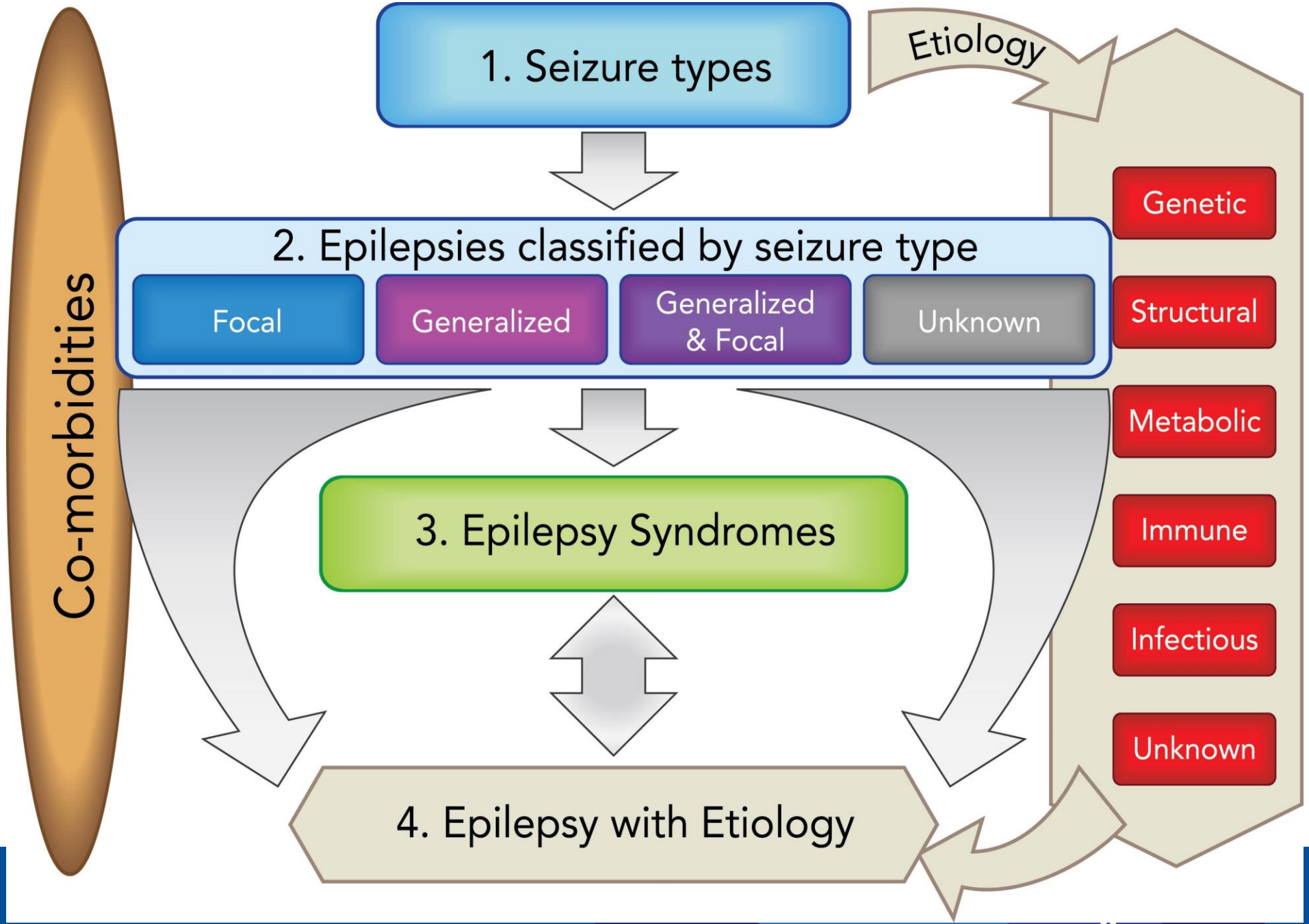
koortsconvulsie

- 5 per 100 kinderen
- tussen 6 mnd en 6 jaren
- typische aanvallen bij 2/3
- atypische aanvallen bij 1/3
- vaak in familie voorkomend

- ≠ epilepsie

classificatie

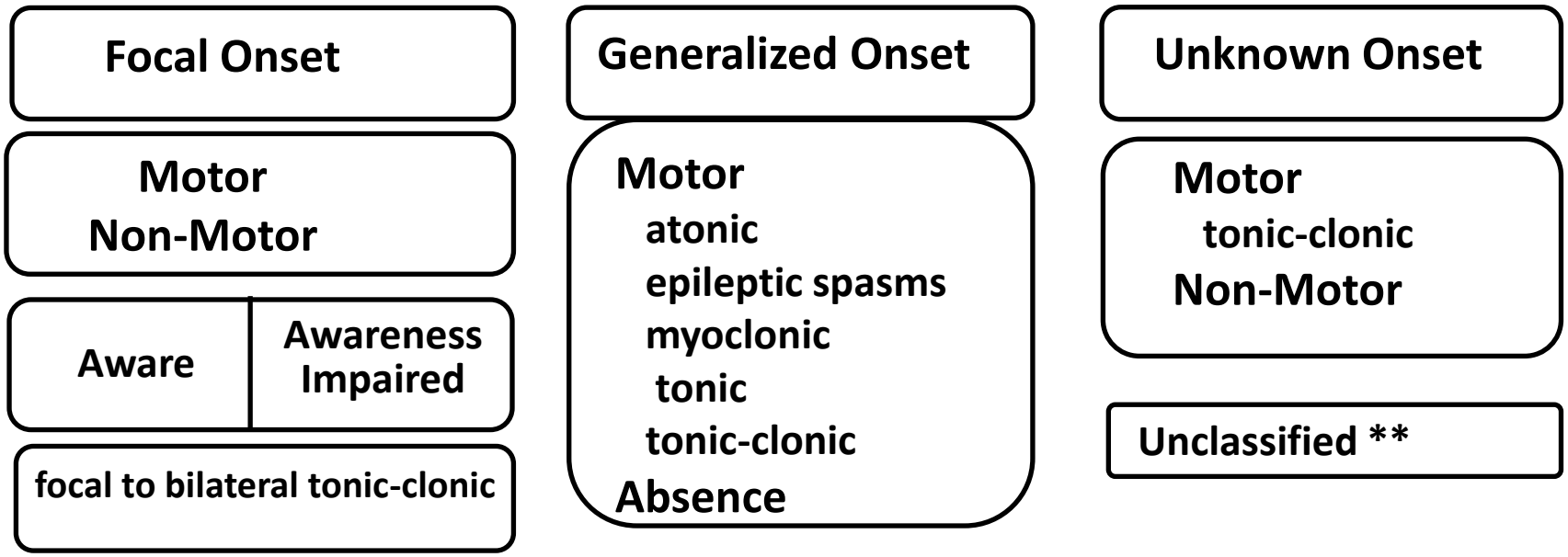
- aanvalstype
- epilepsiesyndroom/ elektroklinisch syndroom
- etiologie→ verschillende oorzaken


1. Seizure types
Etiology
Co-morbidities
2. Epilepsies classified by seizure type
Focal
Generalized
Generalized & Focal
Unknown
Genetic
Structural
Metabolic
Immune
Infectious
Unknown
3. Epilepsy Syndromes
4. Epilepsy with Etiology

aanvalstype

- epileptische origine al vastgesteld
- soms stopt hierna ook classificatie
- bepaalt eerst aanvalsbegin
- daarna wordt onderscheiden: motorisch-niet motorisch

ILAE 2017 Classification of Seizure Types Basic Version*



* Definitions, other seizure types and descriptors are listed in the accompanying paper & glossary of terms.
** Due to inadequate information or inability to place in other categories

focale aanval

ontstaat in 1 hersenhelft

motorisch
- schokken
- verkramping
- automatische handelingen

niet motorisch
- angst, onrust
- taal of geheugenstoornis

bewustzijn ?

→ zeer verschillend,

→ verschijnselen afhankelijk van gebieden betrokken bij de aanval

ILAE 2017 Classification of Seizure Types Expanded Version*

Focal Onset

Motor
- automatisms
- behavior arrest
- atonic
- clonic
- epileptic spasms
- hyperkinetic
- myoclonic
- tonic

Non-Motor
- autonomic
- cognitive
- emotional
- sensory

Aware	Awareness Impaired

focal to bilateral tonic-clonic
focal to bilateral other

Generalized Onset

Motor
- atonic
- clonic
- epileptic spasms
- myoclonic
- myoclonic-atonic
- myoclonic-tonic-clonic
- tonic
- tonic-clonic

Absence
- typical
- atypical
- myoclonic
- eyelid myoclonia

Unknown Onset

Motor
- behavior arrest
- epileptic spasms
- tonic-clonic

Non-Motor

Unclassified **

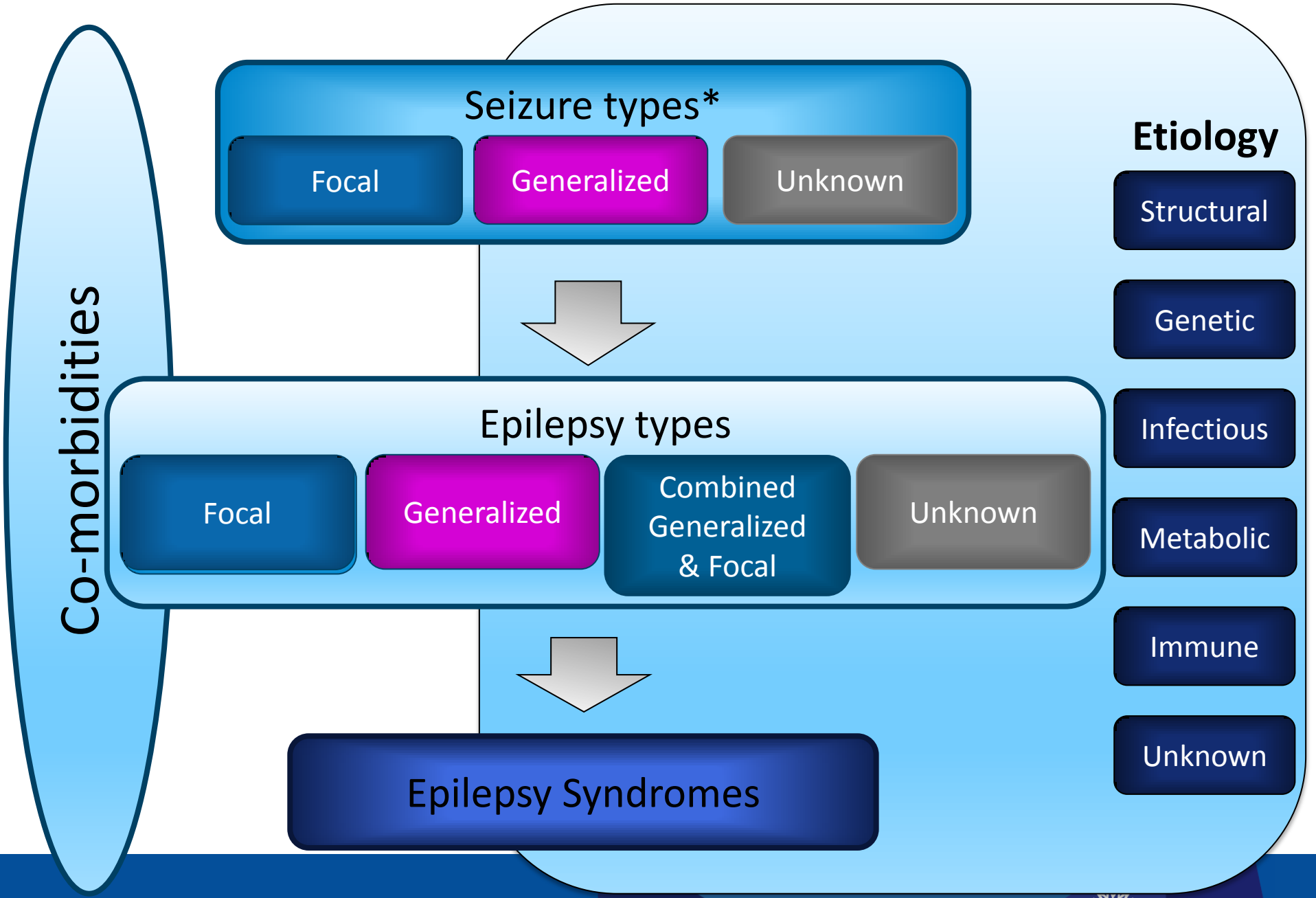
- Definitions, other seizure types and descriptors are listed in the accompanying paper & glossary of terms.

** Due to inadequate information or inability to place in other categories

epileptic encephalopathy

epileptische activiteit zelf draagt bij aan de ernst van de ontwikkelingsproblemen boven wat te verwachten is op basis van de onderliggende oorzaak

Berg et al 2010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Etiology
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Metabolic
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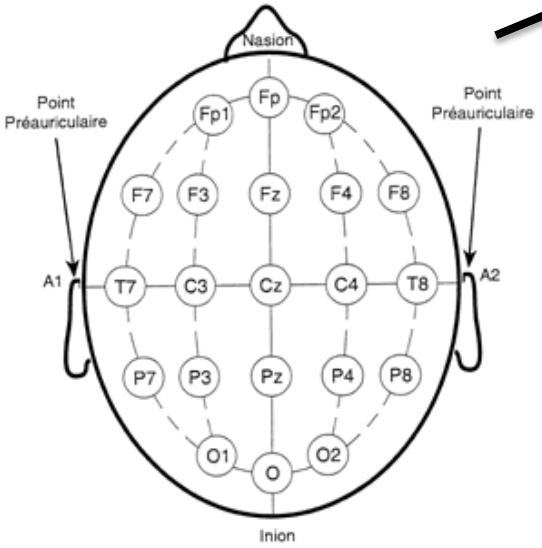
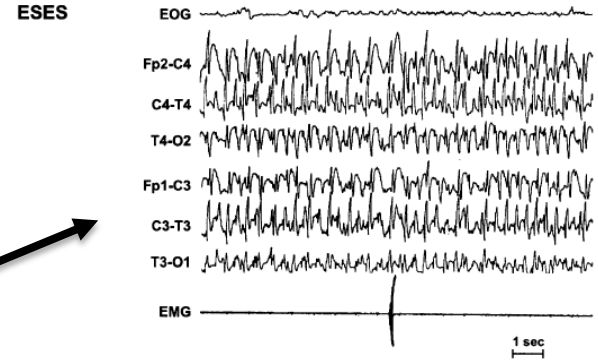
Co-morbidities
Epilepsy types
Focal
Generalized
Combined Generalized & Focal
Unknown
Epilepsy Syndromes

Epilepsy Syndromes

- leeftijd
- aanvalstype
- EEG patronen
- beeldvorming
- co-morbiditeit





neonataal < 44 wk

- benign familial neonatal epilepsy (BFNE)
- early myoclonic encephalopathy (EME)
- Ohtahara syndrome

zuigeling < 1 jaar

- myoclonic epilepsy in infancy (MEI)
- benign infantile epilepsy
- benign familial infantile epilepsy

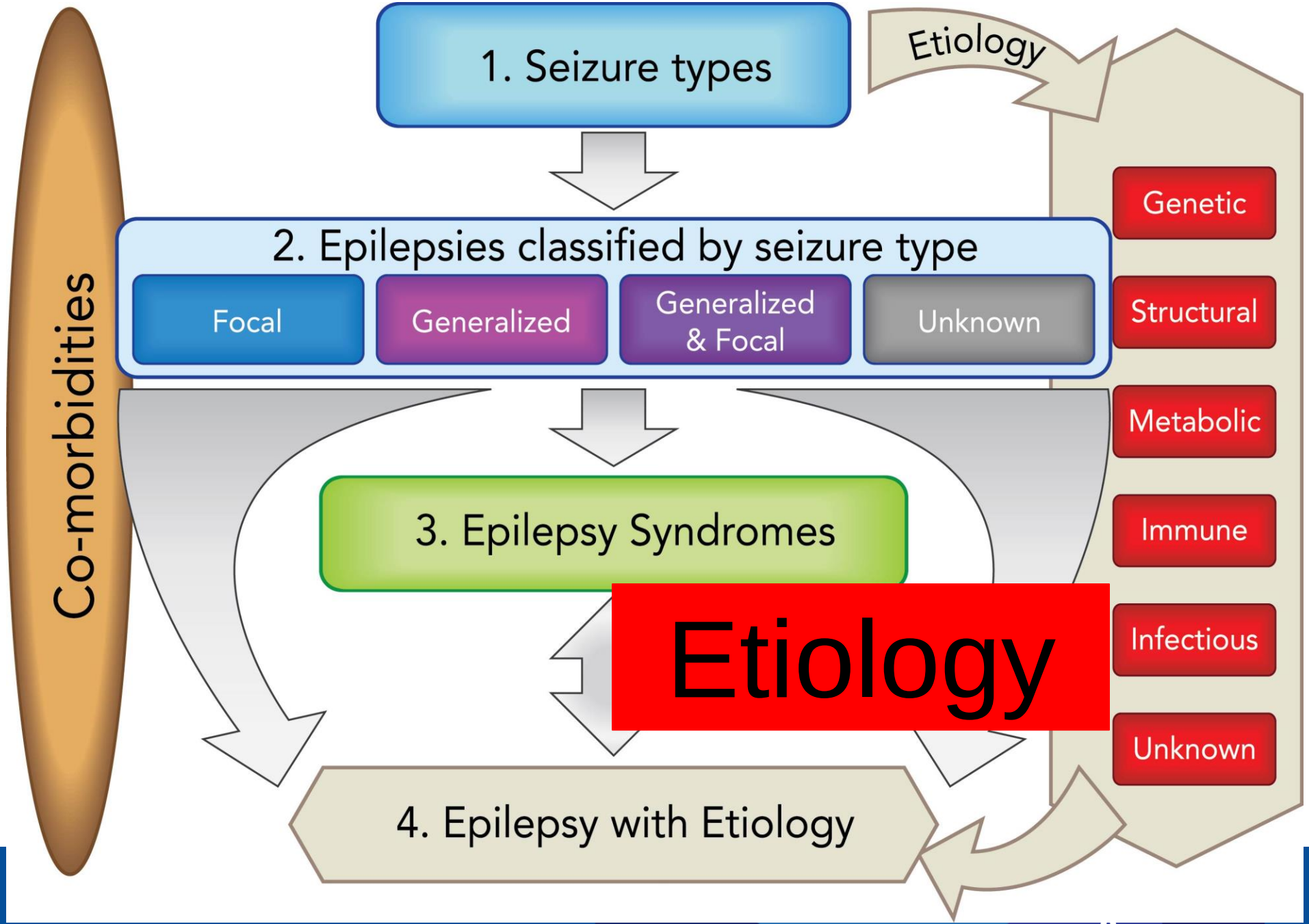
- epilepsy of infancy with migrating focal seizures
- West syndrome
- Dravet syndrome
- myoclonic encephalopathy in nonprogressive disorders

kind < 12 jr

- febrile seizures plus (FS+)
- epilepsy with myoclonic absences
- epilepsy with myoclonic atonic (previously astatic) seizures
- Lennox-Gastaut syndrome
- childhood absence epilepsy (CAE)
- Panayiotopoulos syndrome
- benign epilepsy with centrotemporal spikes
- autosomal-dominant nocturnal frontal lobe epilepsy
- late onset childhood occipital epilepsy (Gastaut type)
- continuous spike-and-wave during sleep (CSWS/ESES)
- Landau-Kleffner syndrome (LKS)

adolescent < 18 jr

- juvenile absence epilepsy
- juvenile myoclonic epilepsy
- epilepsy with gegeneralized tonic-clonic seizures alone
- progressive myoclonus epilepsies
- autosomal dominant epilepsy with auditory features
- other familial temporal lobe epilepsy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Seizure types*

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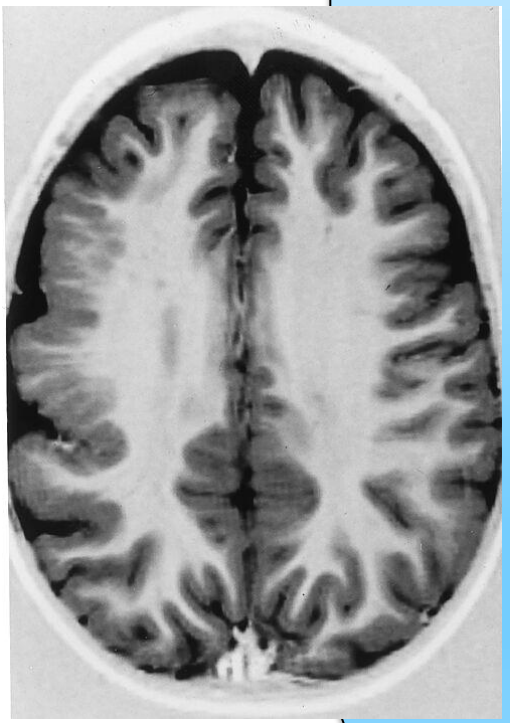
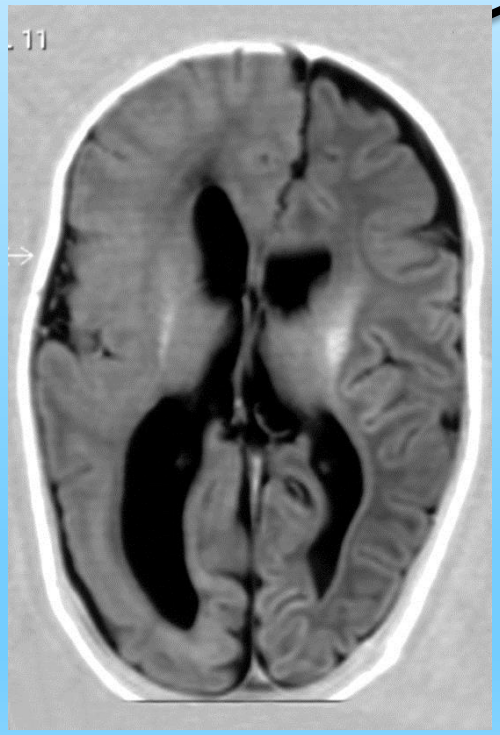
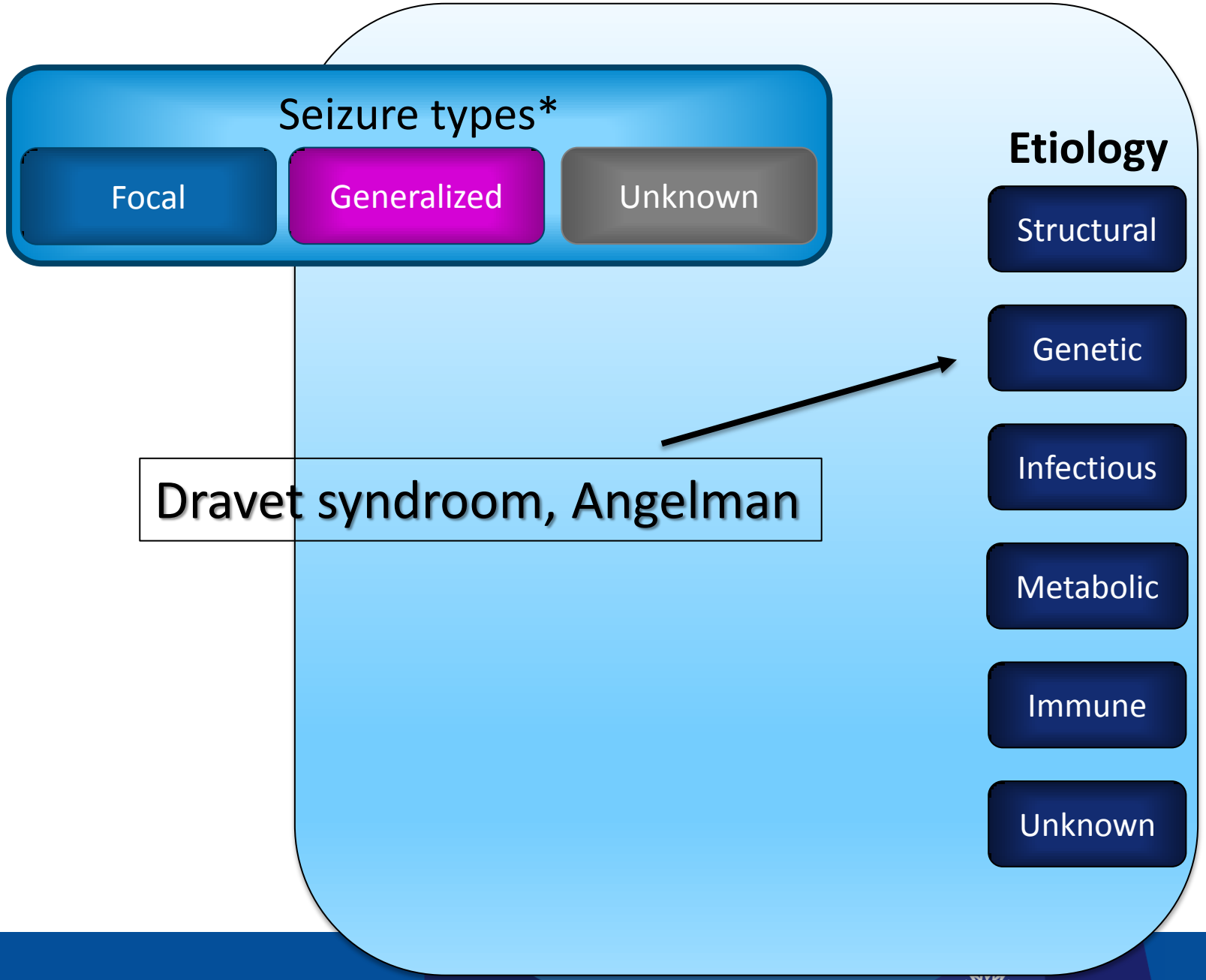
- Generalized
- Unknown





Etiology

- Structural
- Genetic
- Infectious
- Metabolic
- Immune
- Unknown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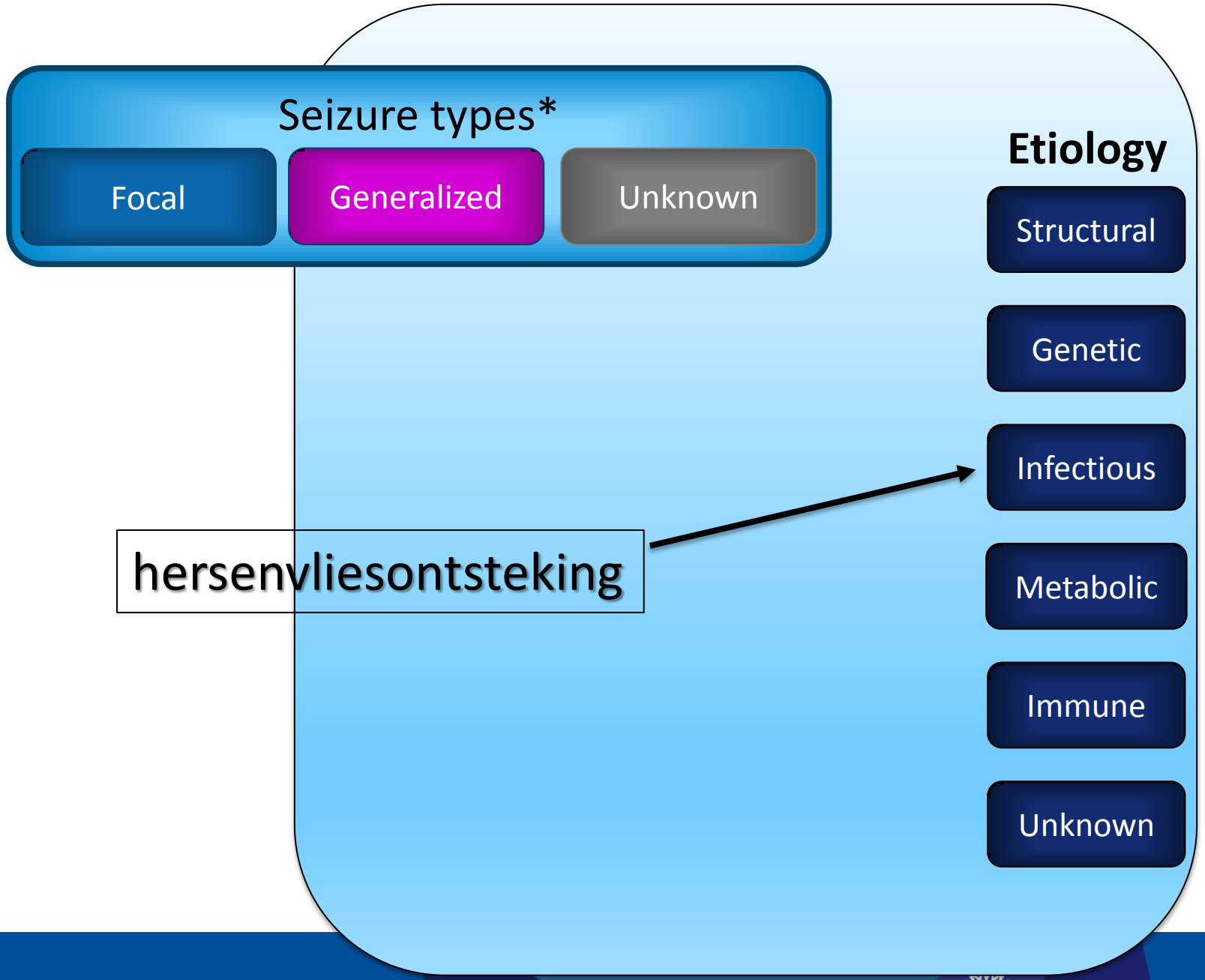
Dravet syndroom, Angelman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Metabolic
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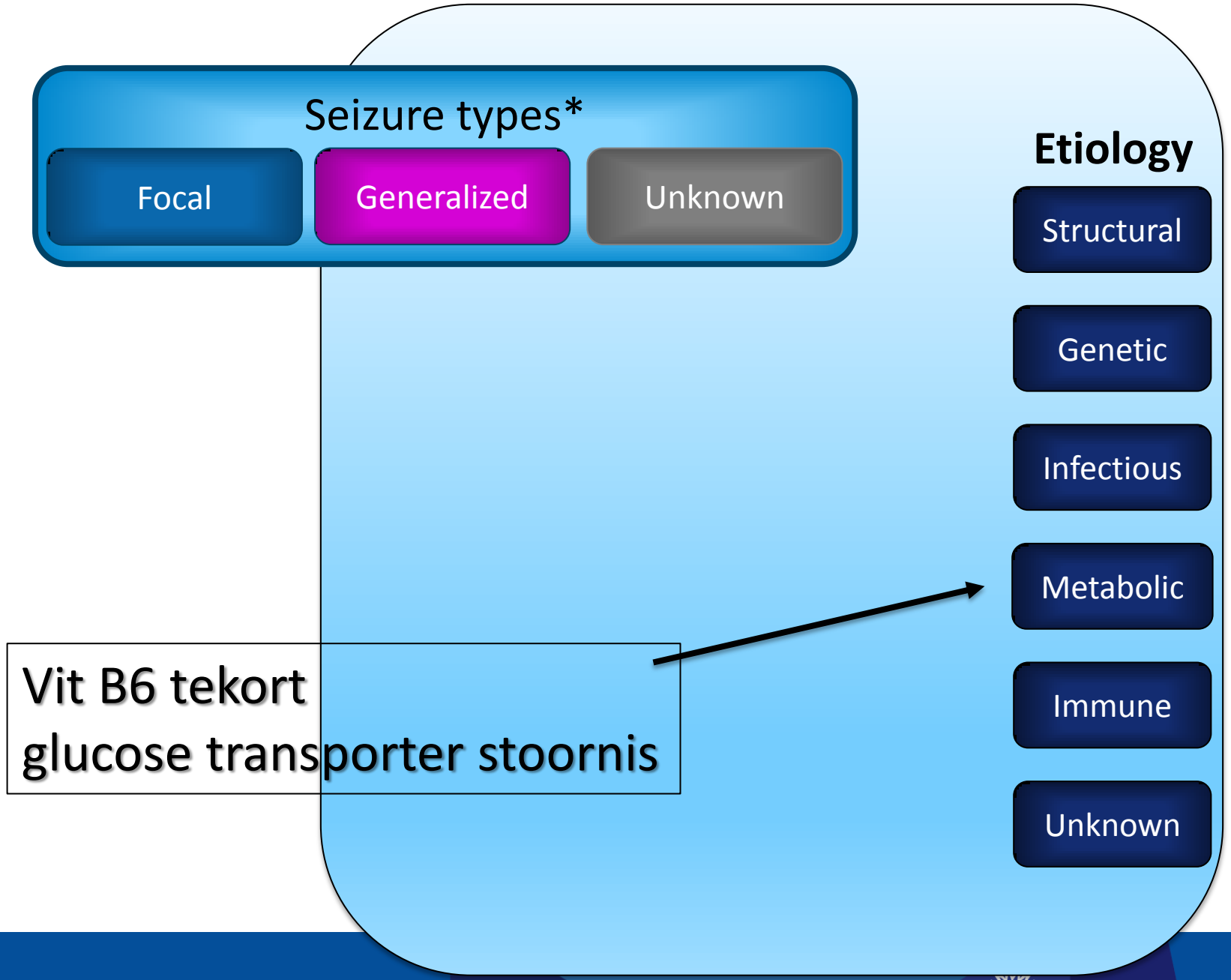
Unknown
hersenvliesontsteking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Focal
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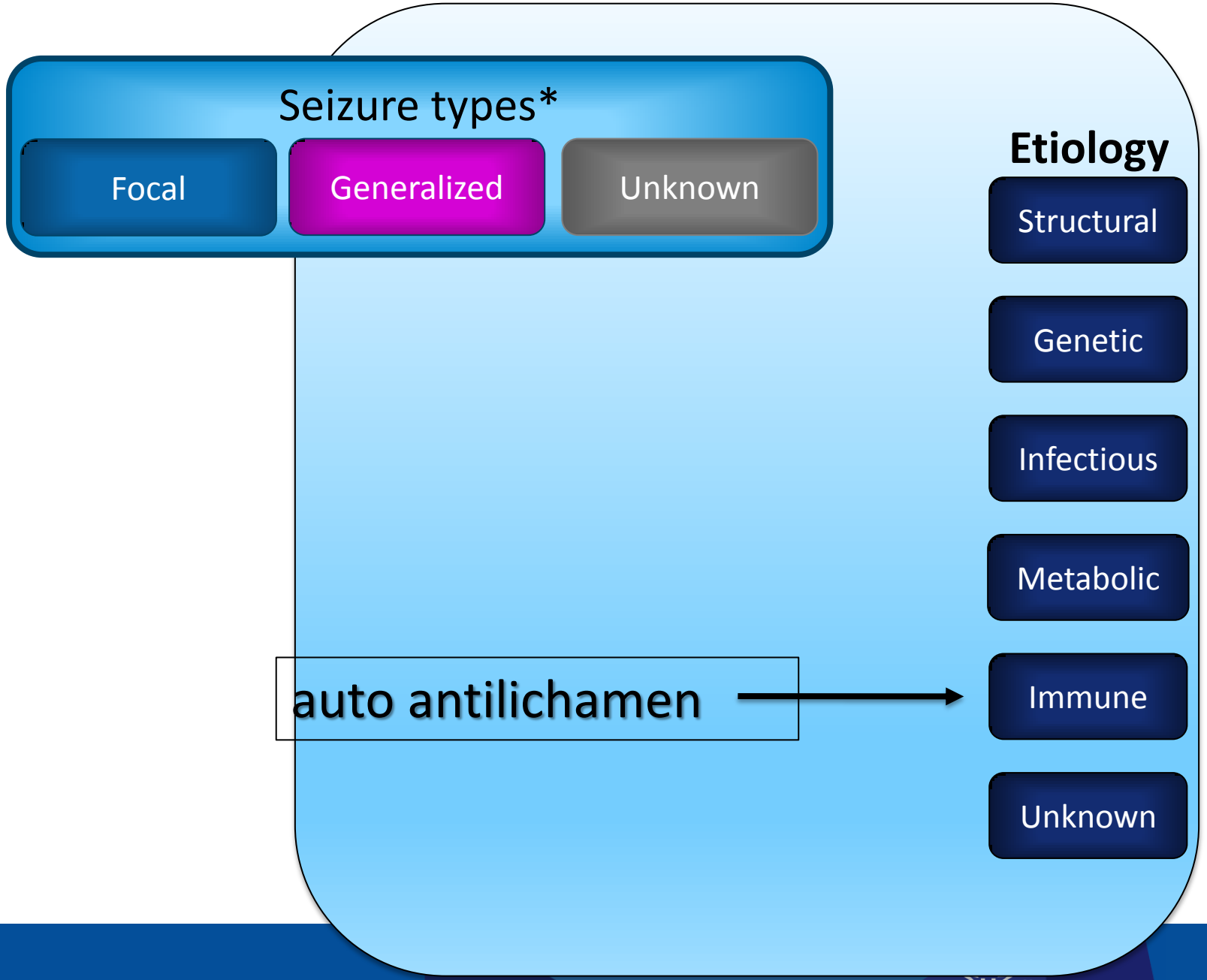
Unknown
Vit B6 tekort
glucose transporter stoornis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Unknown

Seizure types*

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- Generalized
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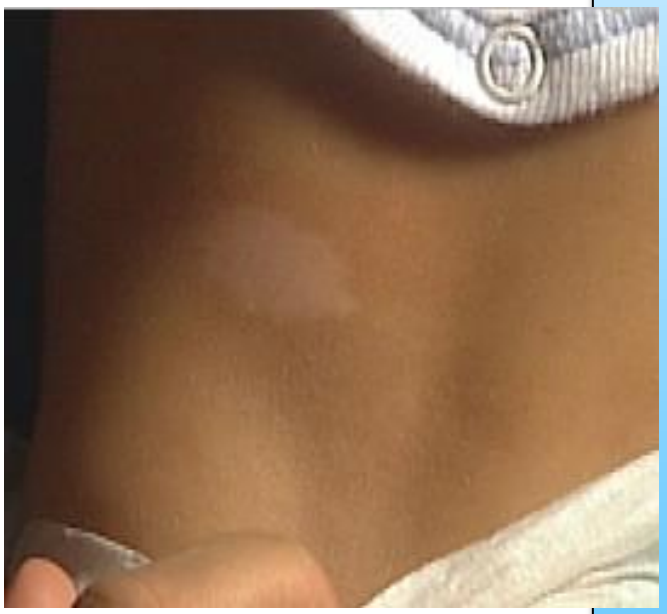

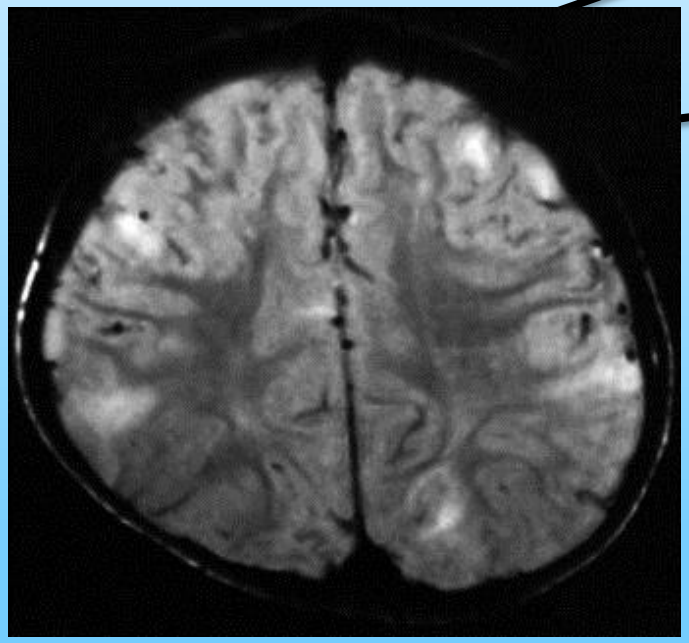

Etiology

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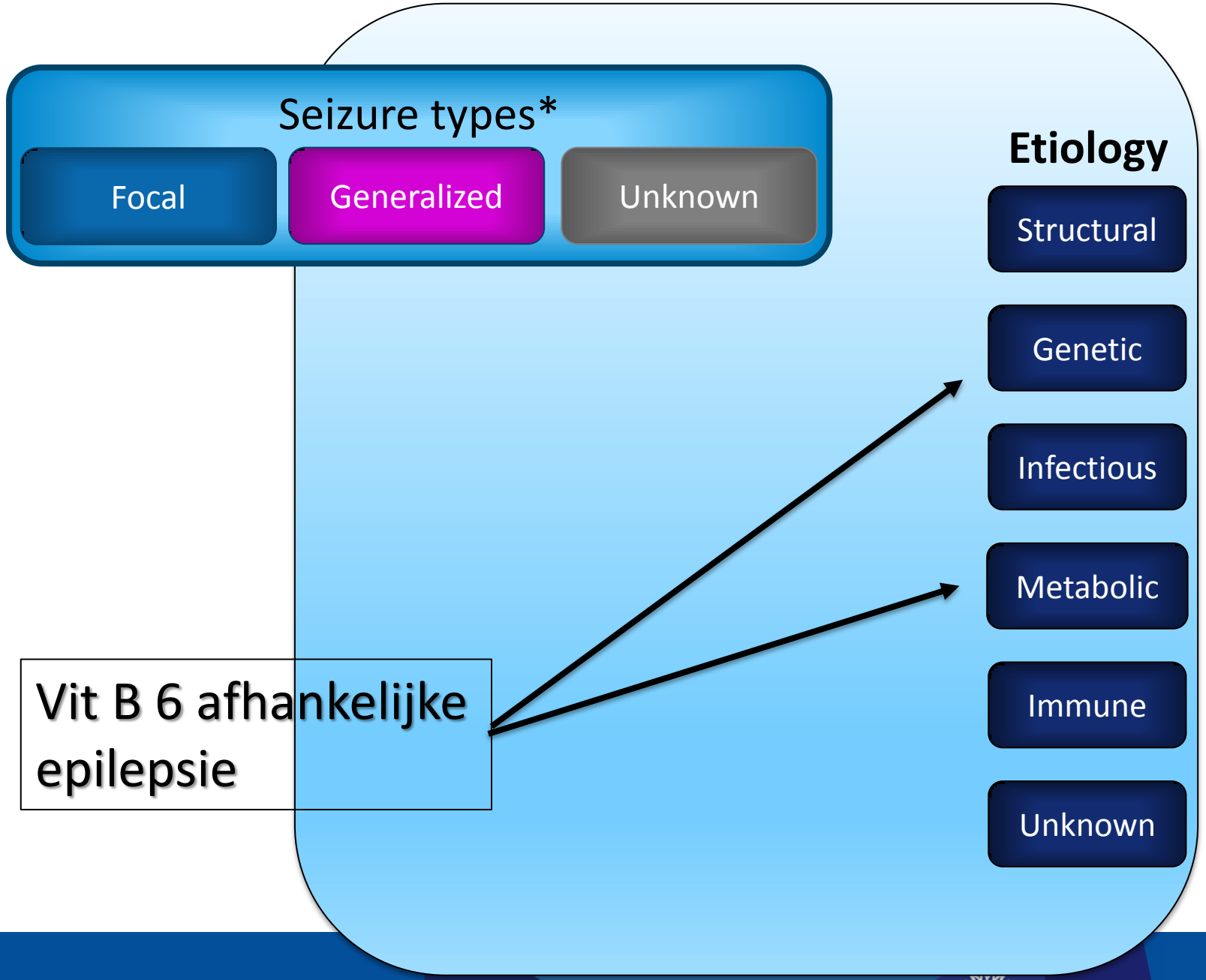
Seizure types*
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Vit B 6 afhankelijke epilepsie

belang van goede classificatie

- voorkomen belastend onderzoek
- gerichte behandeling
- inschatting prognose
    - epilepsie
    - ontwikkeling
- begeleiding
- genetische counseling

www.epilepsydiagnosis.org

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