Disorders of Perception

A. Auditory Hallucinations

Most common form in 1° psychiatric disorders; occur in schizophrenia, delusional disorder, mania, depression, decompensated borderline and narcissistic states; PTSD "traumatic hallucinosis". Can also occur post-stroke, TBI, HIV, AD, VaD, bvFTD (esp. associated with C9orf72), LBD, temporal lobe epilepsy, autoimmune limbic encephalitis, delirium, alcohol withdrawal, meth intoxication etc.

- 1. **Command** most commonly malingered; if genuine may confer ↑ risk of suicide/violence
- 2. **Though Echo** Gedankenlautwerden and echo de la pensée; FRS of schizophrenia
- 3. Voices Giving Running Commentary FRS of schizophrenia
- 4. Voices Heard Arguing most common auditory hallucination; FRS of schizophrenia
- 5. **Musical** occur in deafness, TLE, poststroke, w/ tumors, 1° psychiatric disorder (schizophrenia, mania), drug reaction

B. Olfactory and Gustatory Hallucinations

2nd commonest form in 1° psychiatric disorders

- 1. Olfactory hallucinations (**phantosmia**) occur in schizophrenia, psychotic MDD, mania, delusional disorder. Also consider TLE, tumors, sinusitis, TBI, Parkinson's (can develop in context of loss of smell). r/o **taijin kyofusho** (ORS)
- 2. Gustatory hallucinations occur in schizophrenia, psychotic MDD, mania, delusional disorder. Also consider seizures. Often go hand in hand with olfactory hallucinations. Poorly studied.

AD = Alzheimer's
Disease
bvFTD = behavioral
variant
Frontotemporal
Dementia
CJD = CreutzfeldtJakob Disease
FRS = first rank
symptom
LBD = Lewy Body
Dementia
ORS = olfactory
reference syndrome
PCA = Posterior

Cortical Atrophy
PDD = Parkinson's

Disease Dementia
TLE = Temporal Lobe
Epilepsy

VaD = Vascular Dementia

C. Tactical (Haptic) Hallucinations

Can occur in delusional disorder (e.g. **Ekbom syndrome**), cocaine and amphetamine-induced psychosis, opioid use disorder, schizophrenia, MDD, bipolar disorder. Also consider delirium, VaD, AD, complex partial seizures, MS. Must distinguish from somatic delusions, somatic passivity delusions which may co-exist.

- 1. **Thermic** perceptions of hot and cold
- 2. **Haptic** perceptions of touch (including perceptions of formication/infestation)
- 3. **Hygric** perception of fluid
- 4. **Kinaesthetic** perceptions in muscles/joints
- 5. **Visceral** perceptions of inner organs

D. Visual Hallucinations

More commonly associated with "organic" pathology; can occur in psychotic MDD, mania, schizophrenia, acute and transient psychotic disorders, as well as decompensated borderline and narcissistic states; PTSD "traumatic hallucinosis". Otherwise consider delirium, LBD, PDD, AD, VaD, bvFTD, CJD, PCA, TBI, HIV, Charles Bonnet Syndrome, alcohol withdrawal, peduncular hallucinosis, migraine w/ visual aura, occipital epilepsies, hallucinogen persisting perceptual disorder, Ganser syndrome (hallucinations, clouding of consciousness, approximate answers, conversion symptoms)

- 1. Simple flashing lights, colors
- 2. Complex people, animals, liliputian
- 3. **Pseudohallucinations** extremely vivid ornate hallucinations may suggest hysterical conversion

E. Other Hallucinations

- 1. **Hypnagogic** and **hypnopompic** hallucinations on falling asleep/waking normal v. **narcolepsy**
- 2. **Reflex** hallucination triggered by stimulus in different sensory modality
- 3. Functional hallucination triggered by stimulus in same sensory modality
- 4. Extracampine hallucination emanating from out of sensory field