

Index

- adoption studies 49
 - genetic susceptibility/behavioural factors 25
- affective disorders 3
 - associated with marked abilities 53
 - and susceptibility to schizophrenia 22
- age at onset 17, 180
 - effect of sex 24
 - index of genetic severity 23
 - patients with parents with affective disorders 23
 - various psychotic symptoms 62
- alogia 180
- anticonvulsants 182
- apomorphine 159-65
 - effects in schizophrenia 159
 - in acute psychotic episodes with manic features 164-5
 - ten-year follow-up study 161-5

- bacterial infections 46
- behavioural disorders 180
 - assessment 37
 - related to obstetric complications 9
- births
 - premature 10, 17, 100
 - procreative habits 43, 93
 - see also* obstetric complications; seasonality of schizophrenic births
- birthweight 102
 - of schizophrenic adults 10
 - related to ventricular size 121
- brain
 - asymmetrical development 54, 182
 - corpus callosum area in controls 143
 - cortical markings 60
 - non-progressive 61
 - cortical surface atrophy 11-12, 16, 78
 - indices 13
 - early damage 15, 16-17
 - in twins 105
 - related to adult psychiatric disorders 17-18
 - study methods 12
 - early pathological changes 61
 - effect on late-maturing systems 62-3
 - effects of obstetric complications 9-10
 - frontal lobe: decrease in size 120-1
 - effects of injury 117
 - hemispheric characteristics: diagnostic and psychopathological 128-9
 - EEG findings 128
 - related to duration and psychopathology 131
 - specialization 123
 - left hemisphere: abnormal function 123
 - preference 52
 - neurodevelopmental dysfunction 59-64
 - non-progressive pathology 61
 - pathological manifestations related to maturity of area 62
 - right hemisphere dysfunction 3
 - structural asymmetry 52
 - structural pathology 60-1
 - ventricular enlargement 10-11, 12, 16, 60, 67-87, 181-2
 - associated developmental scores 16, 17
 - definition (for study) 71-2
 - distribution of HLA antigens 83-4
 - early manifestations 61
 - family history 102-3
 - family studies 103-4, 110-11
 - frequency 93-4, 99
 - hypotheses on causes 114
 - MRI study 141-5
 - non-progressive 61
 - preceding onset of illness 94
 - related to diagnostic sub-types 75, 86
 - related to seasonality of births 94-6
 - related to sex of schizophrenic patient 114
 - related to temporal course of illness 72-4
 - response to neuroleptic therapy 80-2

- significance 68
- smooth pursuit eye movement 84-5
- study 69-86
 - of twins 99-102
- Brief Psychiatric Rating Scale (BPRS) 70, 161
- bromocriptine 160

- cerebral palsy
 - pattern of clinical symptoms 62
 - related to obstetric complications 9, 16
- cerebrospinal fluid, opioid levels 149
- chlorpromazine 173
- cognitive tasks, effect on EEG characteristics 129
- cortisone 182
- CT scans 141
 - brain structural abnormalities 60
 - findings 68
 - in differentiated sub-types 112
 - related to length of illness 61
 - related to obstetric complications 10-11, 14-15
 - study method 12
 - study of families with high frequency of schizophrenia 109-14
 - ventricular enlargement study 69-70

- dexamethasone, β -EP and β -LPH plasma levels 152, 155
- dopamine
 - agonists 159-65
 - CNS systems, action of neuroleptics 173
 - mesocortical system 175, 177
 - receptors 135-8
- dopaminergic activity 62-3

- electroconvulsive therapy (ECT), and ventricular enlargement 112
- electroencephalogram (EEG) studies 128-30, 182
- emotional withdrawal 3
- β -endorphine 149, 150-55
- environmental factors 104
 - contaminants, and seasonality of birth 45
 - twin studies 101-2
- epidemiology 179
- epilepsy, related to obstetric complications 9
- estrogen effect 24
- extrapyramidal symptoms 3, 174
- eye movements, smooth pursuit 84-5, 181

- family history
 - related to obstetric complications 14, 15
 - related to seasonality of births 95
 - related to ventricular enlargement 70-1, 82-3, 100-3
 - risk for relatives 86
 - relationship of HLA system 26
 - study method 12
- family studies
 - high frequency of schizophrenia, CT scan findings 109-14
 - viral infections 50-2
- fertility, reduced 23, 53
- flat affect 3, 7
- fluphenazine 173
 - effect on plasma HVA 175

- genetic factors 21-30
 - correlation with CT findings 112
 - HLA system 26-30
 - in seasonality of birth effect 42-3
 - penetrance function 24
 - persistence 53-4
 - predisposition to infection 49-50
 - related to obstetric complications 11
 - structure related to HLA structures 28
 - ventricular size 100
- gliosis 61

- haloperidol 171
 - effect on β -EP and β -LPH levels 152
- HLA system 26-30, 180-1
 - distribution among patients with brain abnormalities 83-4
 - related to age at onset 180
 - ventricular enlargement study 71
- homovanillic acid 135, 174
 - plasma levels 174-5
- hormone therapy 182

- immunogenetic factors *see* HLA system
- infections
 - and seasonality of births 45-6
 - see also* bacterial infections; viral infections
- insulin, effect on β -EP and β -LPH plasma levels 152, 155
- intellectual impairment 78-80

- lead intoxication 45
- levodopa 165

- life events 33-8
 - preceding or causing illness 35-6
 - significance to subject 37
 - timescale preceding pathological changes 34
- β -lipotropin levels (β -LPH) 150-5
- lithium, response to 24, 161, 165
- Luria Nebraska Neuropsychological Battery (LNNB) 70, 79

- magnesium levels 45
- magnetic resonance imaging (MRI) 117-21, 141-5
 - advantages over CT 141
- mental retardation 3
 - related to obstetric complications 9, 16
- motivation defects 3
- motor retardation 3
- motor tasks, effect on EEG characteristics 129

- neuroleptic therapy 70
 - clinical outcome 80-2
 - dopamine receptor studies 135-8
 - link with CNS dopamine systems 173
 - mechanisms of action 159
 - responses, related to ventricular enlargement 95
 - time-dependent pharmacology 173-4
- neuromorphological factors 67-87, 94
- neuropsychological studies 78-80, 124-6
- noradrenaline 169-72
 - arousal indices 170
 - effect on psychotic decomposition 170
 - significance of disturbed activity 169
- nutritional deficiencies, and seasonality of births 44-5

- obstetric complications 9-18, 93
 - related to CT scan findings 10-11, 14-15
 - related to ventricular enlargement 94, 100, 101
 - scale 13
 - seasonality of births 44, 95
 - study method 112
- opioids
 - blood-brain barrier 149
 - plasma levels 149-55
- pharmacological damage 45
- position emission tomography (PET), dopamine receptor
 - studies 135-8
- premature births 10, 17, 100
- propiomelanocortin (POMC) 154
- N-propyl; norapomorphine 160
- psychotic decomposition
 - noradrenergic/dopamine response 170
 - stages 169-70
- psychotropic drugs, effect on EEG findings 129-30

- Quality Extinction Test (QET) 124, 182

- reading disabilities, related to obstetric complications 9
- retrovirus sequences 52-3
- risk factors
 - analysis 28
 - in general population 21
 - in relatives 21-2
 - hypothetical causes 22-3

- schizophrenia
 - application of brain visualization techniques 67-8
 - as part of continuum of diseases 53
 - diagnostic sub-types and symptoms 74-8
 - onset related to clinical signs 59
 - pathogenesis compared with normal brain development 59-64
 - penetrance function 24
 - severity of illness 28-9
 - seasonality of schizophrenic births 9, 41-6, 93-6, 179
 - established sources 41
 - of general births 42
 - hypotheses on causes 42-6, 93
 - in other disorders 42
 - procreative habits 43, 93
 - related to ventricular enlargement 94-6
 - variations 41
- sex
 - related to age of onset of disease 24, 180
 - related to cerebral size 120
 - risk factor 24, 28-9
- sleep duration 170-1
- smooth pursuit eye movement (SPEM) 84-5, 181
- social relationships 3
- stress *see* life events
- symptoms
 - negative 3-7, 117

- rating scales 6
- related to outcome of disease 6
- related to ventricular enlargement 75-8
- positive 3
- related to ventricular enlargement 75-8

- tactile extinction 124-6
- temperature, effect on birth seasonality 43-4, 93
- thought disturbance 3
- tics, related to obstetric complications 9
- transposons 52-3
- twin studies 49
 - brain pathology 60
 - genetic susceptibility/behavioural factor link 25
 - obstetric complications 9, 10
 - ventricular enlargement 82, 99-102
 - compared with singletons 104-6

- ventricular enlargement *see* brain: ventricular enlargement
- viral infections 45, 46, 49-55, 93, 179-80
 - origins of hypothesis 49-50
 - refuting contagion theory 50-2
 - transmission mode 53-4
- visualization techniques 67
 - see also* CT scans; magnetic resonance imaging; positron emission tomography

- Wechsler Adult Intelligence Scale (WAIS) 70, 79
- work performance 3