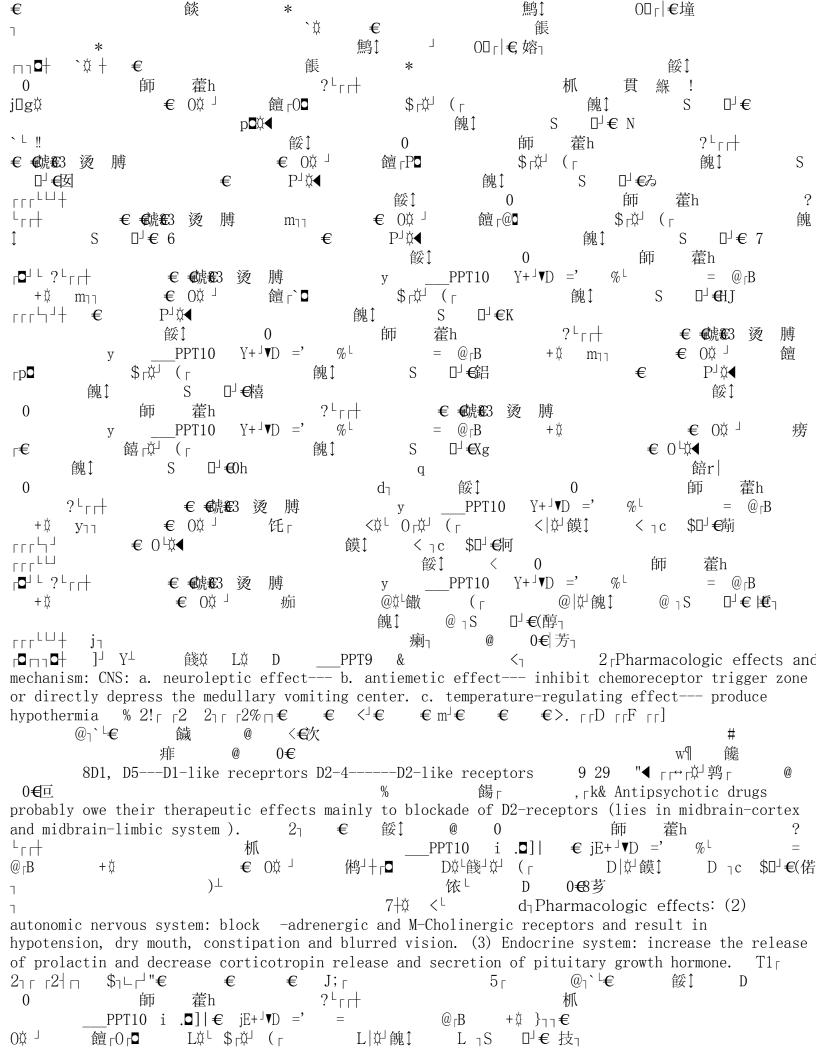
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  Antipsychotic Drugs+
                            (Department of Pharmacology Zhang Yan-mei
              General View+
                                 The most important types of psychosis are:
Schizophrenia Affective disorders (e.g. depression, mania) Organic psychoses (mental disturbances
caused by head injury, alcoholism, or other kinds of organic disease).
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                                 L<sub>C</sub>Classification: anti-schizophrenic drugs (antipsychotic drugs or
neuroleptics), antimanic drug, antidepressants or antianxiolytics. Pharmacologically, they are
characterised as dopamine receptor antagonists, though many of them also act on other targets,
particularly 5-HT receptors, which may contribute to their clinical efficacy. *Mr(1-611)
¹ PA rr rr→Ørr▲ rr
                             The Nature of Schizophrenia+ J<sub>F</sub>Psychotic illness
characterised by hallucinations, delusions and thought disorder (positive symptoms), together with
social withdrawal and flattening of emotional responses (negative symptoms). Acute episodes (mainly
positive symptoms) frequently recur and develop into chronic schizophrenia, with predominantly
                     K_{\Gamma}K_{\Gamma}
negative symptoms.
                                             The Nature of
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                     Incidence is about 1% of population, with a strong, but not invariable,
Schizophrenia+
hereditary component. Pharmacological evidence is generally consistent with dopamine overactivity
hypothesis, but most neurochemical evidence is negative or equivocal. Increase in dopamine receptors
in limbic system (especially in left hemisphere) is consistently found. There is some evidence for
involvement of 5-HT, and possibly other mediators, such as glutamate.
              %Classification of Antipsychotic drugs+ I<sub>I</sub>Main categories are:
Typical antipsychotics Phenothiazines (chlorpromazine, perphenazine, fluphenazine, thioridazine et
al) Thioxanthenes (flupenthixol, clopenthixol) Butyrophenones (haloperidol, droperidol) Atypical
antipsychotics (e.g. clozapine, risperidone, sulpiride, olanzapine)
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Antipsychotic drugs+
                               Distinction between \( \) typical\( \) and \( \) atypical\( \) groups is not clearly
defined, but rests on: Incidence of extrapyramidal side-effects (less in ↑ atypical | group) Efficacy
in treatment-resistant group of patients Efficacy against negative
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                                       Phenothiazines
symptoms. &Z Z€
Chlorpromazine: wintermine * + [[[
                                                  Phenothiazines
              Therapeutic uses (1) treatment of psychotic disorders:
schizophrenia, mania, paranoid states, alcoholic hallucinosis. (2) treatment of nausea and vomiting
of certain causes. (3) anesthesia in hypothermia and artificial hibernation (used with pethidine and
                        >W LLD LL LL
promethazine).
                                                 Adverse
             Extrapyramidal motor disturbances: (1) Parkinson-like symptoms; (2) akathisia;
(3) acute dystonias. Treatment: anticholinergic
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hPseudodepression and Schizophrenia-like syndrome. Seizures. Cardiac toxicity and

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endocrine effects.
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effects (dry mouth, constipation, blurred vision, hypotension, etc.) are due to block of other
receptors, particularly adrenoceptors and muscarinic ACh receptors. Contact dermatitis, blood
dyscrasias, obstructive jaundice sometimes occurs with phenothiazines. "Zk⊢Z← b
                * FF-15F6
                                                                 Thioxanthenes
                                                                                                                             VChlorprothixene: mild
antipsychotic action, and antianxiety and antidepressant action. \xi \zeta_{\Gamma}!
                                                                       Haloperidol: control psychomotor
                        Butyrophenones
excitement. Adverse effects: severe extrapyramidal symptoms.
                                                                                                                    Е∄гг
                                  Clozapine: (1) be effective in treating some patients with psychosis unresponsive
to standard neuroleptic drug. (2) blocks D4 receptor and have low affinity for D1 and D2 dopamine
receptors. (3) lacks extrapyramidal side effects. (4) must monitor the granulocyte counts weekly.
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                                                                                  Others+
                                                                                                               ARisperidone: be used first episode in
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                                                                               (Clinical Efficacy of Antipsychotic
and chronic schizophrenia.
                  (Antipsychotic drugs are effective in controlling symptoms of acute schizophrenia,
when large doses may be needed. Long-term antipsychotic treatment is often effective in preventing
recurrence of schizophrenic attacks, and is a major factor in allowing schizophrenic patients to
                                                               (Clinical Efficacy of Antipsychotic
lead normal lives. )<sub>□</sub>)<sub>□</sub>∟
                                Depot preparations are often used for maintenance therapy. Antipsychotic drugs are
not generally effective in improving negative schizophrenic symptoms. Approximately 40% of chronic
schizophrenic patients are poorly controlled by antipsychotic drugs; clozapine may be effective in
some of these ↑ antipsychotic-resistant + cases. H<sub>f</sub>H<sub>□</sub>L
altering drug
                                                       N'!. Mood-stabilizing: lithium carbonate
              Z<sub>1</sub>Adverse effects: Nausea, vomiting and diarrhoea. Tremor. Renal effect: polyuria (with
resulting thirst) Various neurological effects, progressing from confusion and motor impairment, to
coma, convulsion and death. k& narrow therapeutic limit for the plasma means the monitoring is
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antidepressant drug Tricyclic antidepressant (TCA): Selective 5-HT uptake inhibitors: NE uptake
inhibitors: Atypical antidepressant: phenelzine 🕒
                                                                  R_{\Gamma}Mechanism: block the amines (NE and 5-HT).
                           imipramine
Pharmacologic effects: (1) CNS: a nondepressed person experiences sleeping. In the depressed
patient, an elevation of mood occurs 2-3 weeks after administration begins. (2) autonomic nervous
system: anticholinergic effects. (3) cardiovascular effects: orthostatic hypotension and
                            JC + P + + P \qquad L^{J} + \gamma L^{J} + \gamma
arrhythmias.
                                                                                                                                             Therapeutic
                                (1) Treatment of severe endogenous depression (characterized by
regression and inactivity). (2) Treatment of enuresis. (3) Treatment of obsessive-compulsive
neurosis accompanied by depression, and phobic-anxiety syndromes, chronic pain and neuralgia.
                           Fluoxetine
                                                                       Mechanism of action: (1) is a
selective inhibitor of serotonin uptake in the CNS. (2) has little effect on central norepinephrine
and dopamine function. (3) has less adverse effects because of minimal binding to cholinergic,
histaminic, and -adrenergic receptors. D^{\perp} + Z Z^{\perp \perp \perp}
                                                                     Therapeutic uses: (1) is used for
treatment of mild to moderate endogenous depression. (2) be useful in treating obsessive-compulsive
disorder, obesity.
                                                          "¬▼┌
                                                                                     Adverse effects: (1) cause
anorexia. (2) precipitate mania or hypomania. (3) result in nausea, nervousness, headache, and
insomnia. (4) cause 5-HT syndromes (hyperpyrexia, convulsions, and coma) when combinated with and
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zophrenia, with predominantly negative symptoms.
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                                                                                            The Nature
                             Incidence is about 1% of population, with a strong, but not invariable,
of Schizophrenia+
hereditary component. Pharmacological evidence is generally consistent with dopamine overactivity
hypothesis, but most neurochemical evidence is negative or equivocal. Increase in dopamine receptors
in limbic system (especially in left hemisphere) is consistently found. There is some evidence for
involvement of 5-HT, and possibly other mediators, such as glutamate.
              %Classification of Antipsychotic drugs+ I<sub>f</sub>Main categories are:
Typical antipsychotics Phenothiazines (chlorpromazine, perphenazine, fluphenazine, thioridazine et
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Antipsychotic Drugs▲□ffgao▲□张艳美▲」23▲↑Microsoft PowerPoint@@臦

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al) Thioxanthenes (flupenthixol, clopenthixol) Butyrophenones (haloperidol, droperidol) Atypical
antipsychotics (e.g. clozapine, risperidone, sulpiride, olanzapine)
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                                                                               %Classification of
                               Distinction between \( \) typical\( \) and \( \) atypical\( \) groups is not clearly
Antipsychotic drugs+
defined, but rests on: Incidence of extrapyramidal side-effects (less in ↑ atypical group) Efficacy
in treatment-resistant group of patients Efficacy against negative
symptoms. &Z Z€
                     g∄rr□
                                       Phenothiazines
Chlorpromazine: wintermine * + | |
                                                  Phenothiazines
             Therapeutic uses (1) treatment of psychotic disorders:
schizophrenia, mania, paranoid states, alcoholic hallucinosis. (2) treatment of nausea and vomiting
of certain causes. (3) anesthesia in hypothermia and artificial hibernation (used with pethidine and
                        >W LL LL LL
promethazine).
                Z
                                                 Adverse
             Extrapyramidal motor disturbances: (1) Parkinson-like symptoms; (2) akathisia;
(3) acute dystonias. Treatment: anticholinergic
                                                            <
                                                                          Adverse
             hPseudodepression and Schizophrenia-like syndrome. Seizures. Cardiac toxicity and
endocrine effects.
                              Y
                                         Adverse Effects 47 Other side-
effects (dry mouth, constipation, blurred vision, hypotension, etc.) are due to block of other
receptors, particularly adrenoceptors and muscarinic ACh receptors. Contact dermatitis, blood
dyscrasias, obstructive jaundice sometimes occurs with phenothiazines. "Zk⊢Z← b
                                                                       VChlorprothixene: mild
         Thioxanthenes
antipsychotic action, and antianxiety and antidepressant action. \mathfrak{A}_{\Gamma\Gamma}!
                                         Haloperidol: control psychomotor
             Butyrophenones
excitement. Adverse effects: severe extrapyramidal symptoms.
                   Clozapine: (1) be effective in treating some patients with psychosis unresponsive
Others+
to standard neuroleptic drug. (2) blocks D4 receptor and have low affinity for D1 and D2 dopamine
receptors. (3) lacks extrapyramidal side effects. (4) must monitor the granulocyte counts weekly.
         ZFr 6 rrV rr`frrA
                                           Others+
                                                               ARisperidone: be used first episode in
                                !¬▲┌
                                6г
                                             (Clinical Efficacy of Antipsychotic
and chronic schizophrenia.
           (Antipsychotic drugs are effective in controlling symptoms of acute schizophrenia,
when large doses may be needed. Long-term antipsychotic treatment is often effective in preventing
recurrence of schizophrenic attacks, and is a major factor in allowing schizophrenic patients to
lead normal lives. )<sub>□</sub>)<sub>□</sub>∟
                                    (Clinical Efficacy of Antipsychotic
                  Depot preparations are often used for maintenance therapy. Antipsychotic drugs are
Drugs+
not generally effective in improving negative schizophrenic symptoms. Approximately 40% of chronic
schizophrenic patients are poorly controlled by antipsychotic drugs; clozapine may be effective in
some of these ↑ antipsychotic-resistant | cases. H<sub>f</sub>H<sub>□</sub>∟
                                                             D
                                                                          Mood
                                                                             *( LG [ [] %
                               N'!. Mood-stabilizing: lithium carbonate
        Z<sub>1</sub>Adverse effects: Nausea, vomiting and diarrhoea. Tremor. Renal effect: polyuria (with
resulting thirst) Various neurological effects, progressing from confusion and motor impairment, to
coma, convulsion and death. k& narrow therapeutic limit for the plasma means the monitoring is
                           "ZT + Z + Z
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essential.
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                                 a!. antidepressant
                                                    Arr Types of
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antidepressant drug Tricyclic antidepressant (TCA): Selective 5-HT uptake inhibitors: NE uptake
inhibitors: Atypical antidepressant: phenelzine F
                                                             4 <sub>г г</sub>и
                                      R<sub>f</sub>Mechanism: block the amines (NE and 5-HT).
               imipramine
Pharmacologic effects: (1) CNS: a nondepressed person experiences sleeping. In the depressed
patient, an elevation of mood occurs 2-3 weeks after administration begins. (2) autonomic nervous
system: anticholinergic effects. (3) cardiovascular effects: orthostatic hypotension and
                JC + P + dP \qquad L^{J} = L^{J} + DL \qquad , O \qquad , C
                                                         Р
                  (1) Treatment of severe endogenous depression (characterized by
regression and inactivity). (2) Treatment of enuresis. (3) Treatment of obsessive-compulsive
neurosis accompanied by depression, and phobic-anxiety syndromes, chronic pain and neuralgia.
               Fluoxetine
                                        Mechanism of action: (1) is a
selective inhibitor of serotonin uptake in the CNS. (2) has little effect on central norepinephrine
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and dopamine function. (3) has less adverse effects because of minimal binding to cholinergic,
histaminic, and -adrenergic receptors. D^{\perp} \vdash Z Z^{\perp \cup \perp}
     € Osffrr
                                    Therapeutic uses: (1) is used for
treatment of mild to moderate endogenous depression. (2) be useful in treating obsessive-compulsive
disorder, obesity.
                               "¬▼┌
                                      Adverse effects: (1) cause
anorexia. (2) precipitate mania or hypomania. (3) result in nausea, nervousness, headache, and
insomnia. (4) cause 5-HT syndromes (hyperpyrexia, convulsions, and coma) when combinated with and
MAO inhibitor. *◀┌
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¶Antipsychotic Drugs General View General View∟