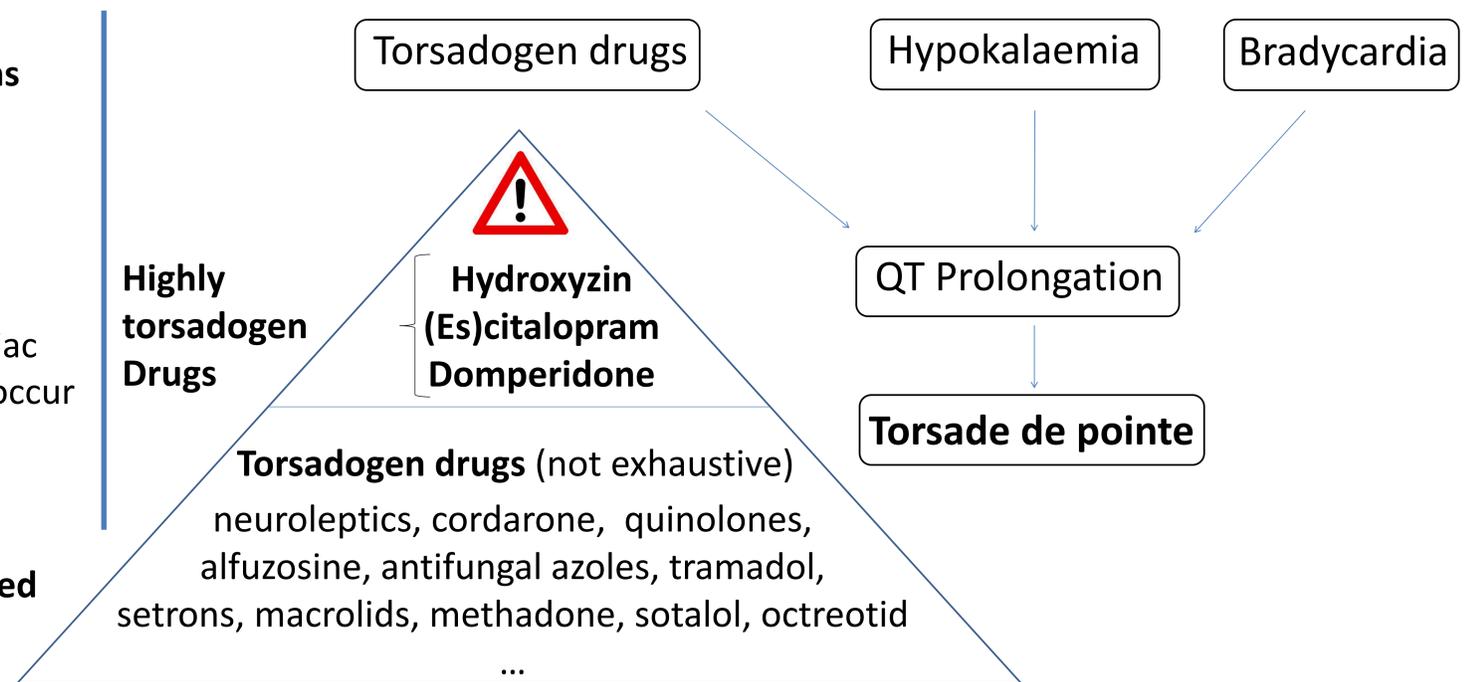




Background

- In our psychiatric hospital: frequent **neuroleptics prescriptions**
- Side effects: **QT prolongation**
- The more torsadogen drugs we prescribe, the more rhythmic cardiac disease as torsade de pointe may occur
- Highly torsadogen drugs : Hydroxyzin, (es)citalopram, domperidone, are contra-indicated** with any other torsadogen drugs



Aim : Analyse prescriptions containing at least one of three highly torsadogen drugs and detect torsadogen risk situations

Materials & Methods

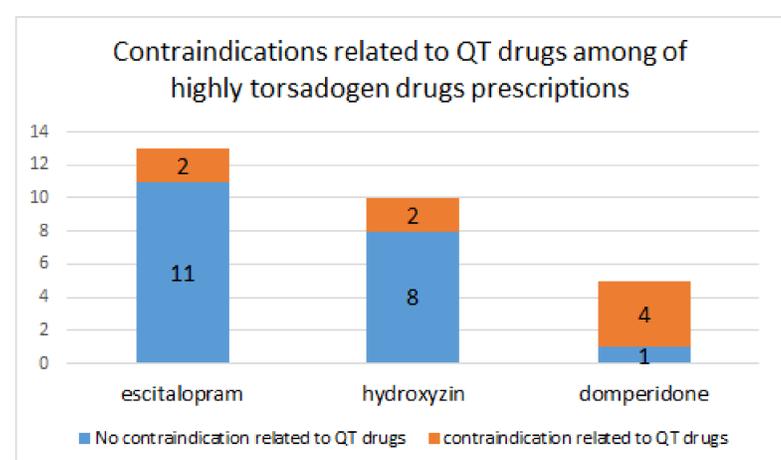
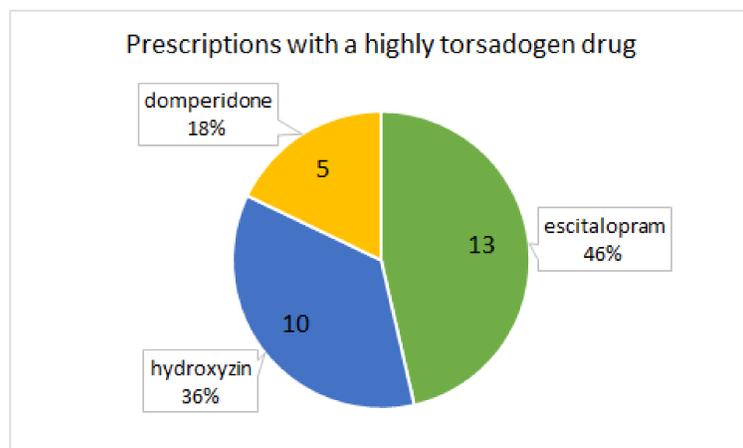
For 3 months: Analyse all prescriptions containing at least one of our 3 highly torsadogen drugs

For each prescription of one of those three drugs, we checked:

- Drug interaction with other torsadogen drugs if prescribed,
- Other situations inducing QT prolongation : bradycardia and hypokalaemia, in patient medical file

Results

Among **584 prescriptions over 3 months** : **28 prescriptions** contains at least one of the 3 highly torsadogen drugs



For each of those 8 contraindications (CI), a pharmacist intervention was redacted to stop the highly torsadogen drug prescription. 7 have been accepted and followed, one has been accepted partially, by keeping the escitalopram due to stabilization treatment and stopping the other one.

Hypokalaemia: 53% of total prescriptions contained drugs that might induce hypokalaemia

Bradycardia: 11% of total prescriptions contained drugs that might induce bradycardia

However, among 28 prescriptions containing our 3 high torsadogen drugs, bradycardia and hypokalaemia were not found in patient medical file

Discussion

Prescribers may not know enough about torsadogen risks of escitalopram, hydroxyzin and especially for domperidone with 80% of his prescriptions containing CI. The intervention of pharmacy helped to avoid those 8 CI.

This work reminds us to be vigilant about torsadogen drugs, providing many interactions. We regularly inform prescribers about drugs inducing QT prolongation, hypokalaemia or bradycardia to improve prescriptions.