

Torsades de pointes Tachycardia

Definition:

Polymorphic VT (ventricular tachycardia) - with long QT (mostly 150-250 bpm)
Develops from so called „**R on T** - **phenomenon**“ (if ventricular extrasystole hits a T-wave)

When Syncope + long QT think self-limiting VT as cause.

Base rhythm bradycardia (more common), caused by medication:
Overdrive Pacing (higher than Torsade!)
Ev. **Lidocain** 1,5-2mg/kg = ca. 150mg

after conversion: raise base-heart rate (!) -> higher heart rate reduces (absolute) QT-time: R on T becomes less likely.

Orciprenalin cont 5mg/50ml (0,1mg/ml) -> start with 5ml/h (0,5mg/h) up to 20ml/h (2mg/h)

Treatment:

Patient unstable:
Nonsynchronised electric defibrillation

Patient stable:
Treatment of Hypomagneseemia:

Magnesium 2g = 8mmol (every 10 min possible)

Treatment of electrolyte disorders: (esp. Hypokalemia - aim K+ high-normal)

NO Gilurhythmal/ Amiodarone (QTc+)

THEN

Base rhythm tachycardia (less common), cause: sympathomimetic / congenital Long-QT-syndrome:

Esmolol 50-100mg or **Metoprolol** 5mg

Ev. **Lidocain** 1,5-2mg/kg = ca. 150mg

