

# THE MECHANISMS OF FLUROQUINILONE-ASSOCIATED DISABILITY

(Ciprofloxacin, Levaquin, Avelox)

CREATED BY: lay-person and cipro victim, Bronwen Duncan, 2016

PURPOSE: a quick visual summary of 600 hours of research and a vehicle with which to discuss ciprofloxacin reactions with health professionals

AS OF MAY 12, 2016: FDA Issues New Stronger Warnings About Risks Of Fluoroquinolone Antibiotics, saying "An FDA safety review has shown that fluoroquinolones when used systemically (i.e. tablets, capsules, and injectable) are associated with disabling and potentially permanent serious side effects that can occur together. These side effects can involve the tendons, muscles, joints, nerves, and central nervous system."

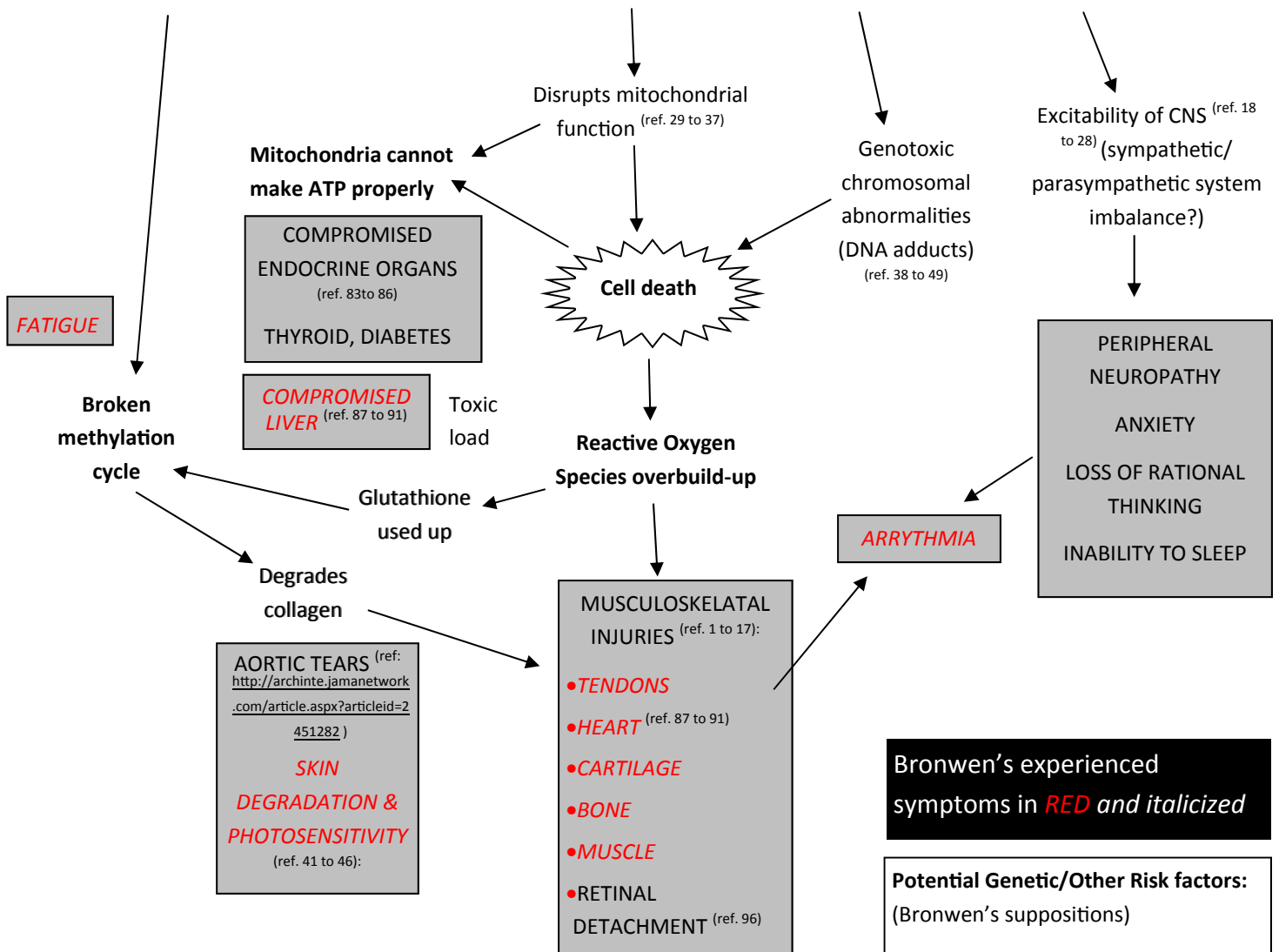
**CHELATES (removes) MAGNESIUM (and other minerals such as iron, zinc?)**

**INHIBITS TOPIOSOMERASE ENZYMES**

**BINDS TO GABA A RECEPTORS**

(ref. <http://www.saferpills.org/wp-content/uploads/2014/10/Dear-Doctor.doc>)

Most people obviously override the effects listed, possibly using chemical reserves within their own body, but some can not (perhaps due to genetic factors) experiencing a systemic breakdown that intensifies from weeks to months before receding and includes a combination of the following, the selection varying by individual. Some never recover, most remain a little compromised—at risk of a re-reacting with the tiniest exposure or even other medications.



Bronwen's experienced symptoms in **RED and italicized**

**Potential Genetic/Other Risk factors:** (Bronwen's suppositions)

- Poor connective tissue
- Thyroid disorders
- Folate processing (MTHFR)
- Hypomagnesia (TRPM6?)
- ??

REFERENCES: Unlinked references are those gathered by Miriam J. de Jonge MD in her **Dear Colleague** letter on broad spectrum fluoroquinolone antibiotics. <http://www.saferpills.org/wp-content/uploads/2014/10/Dear-Colleague-Letter.docx>