



WHAT YOU NEED TO KNOW ABOUT BRUGADA SYNDROME IF YOU ARE A HOSPITAL PHARMACIST

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BACKGROUND AND IMPORTANCE

Brugada syndrome (BRS) is a rare inherited heart rhythm disorder characterised by ST-segment elevation and a potential risk of fatal arrhythmias. These channelopathies are not associated with underlying structural heart disease, making early diagnosis difficult.

AIM AND OBJECTIVE

- ✓ Review the literature related to contraindicated drugs in BRS.
- ✓ Create a list to facilitate pharmaceutical validation
- ✓ Compare the list created with the known list of QT-modifying drugs.

MATERIALS AND METHODS

EMBASE and PUBMED were searched for studies using the terms "brugada syndrome" AND "drugs". Only reviews, within the last 5 years and conducted in humans, were included. Information from the *brugadadrugs.org* website was used as a preliminary basis. The *crediblemeds.org* website was also used for the list of QT-modifying drugs.

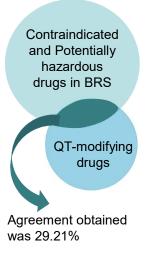
The medicines were classified according to their level of risk in two groups:

- □Contraindicated drugs in BRS (should not be used under any circumstances)
- □Potentially hazardous drugs in BRS (with inconclusive data. Use should be evaluated on an individual basis)

RESULTS

Aimaline Loxapine **Alapinine** Methoxamine Acetylcholine Neostigmine Amitriptyline Norepinephrine Bupivacaine Oxcarbazepine Pilsicainide Clomipramine Desipramine **Pyridostigmine** Dopamine **Procaine** Etacyzine Procainamide Ergonovine Propafenone Phenylephrine **Propofol** Flecainide Ropivacaine Levobupivacaine Trifluoperazine Lithium

Contraindicated drugs in BRS



Potentially nazardous drugs in BRS		
Amiodarone	Etomidate	Ondansetron
Atropine	Phenytoin	Nitrous oxide
Bupropion	Fluoxetine	Paroxetine
Carbamazepine	Fluvoxamine	Perphenazine
Cybenzoline	Glycopyrrolate	Propranolol
Cyamemazine	Granisetron	Sevoflurane
Clotiapine	Imipramine	Sugammadex
Desflurane	Indapamide	Terfenadine/fexofena dine
Dexamethasone	Isoflurane	Thiopental
Diphenhydrami ne	Isoprotenerol	Thioridazine
Dimenhydrinate	Ketamine	Tramadol
Disopyramide	Lamotrigine	Verapamil
Dobutamine	Lidocaine	Vernakalant
Dosulepine	Maprotiline	
Doxepin	Metoclopramide	

Dotontially hazardous drugs in RDS

CONCLUSION AND RELEVANCE

The low concordance with respect to the list of QT-modifying drugs makes it necessary to define a specific drug list for patients with RBS. This could improve the quality of treatment validation by the hospital pharmacist.



