PARKINSON'S DISEASE

CONCEPTS IN DRUG INTERACTIONS AND PAIN MANAGEMENT

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SPONSORED BY

DRAGONFLY BOTANICA APOTHECARY & TEAS





Dr. Sal's Credentials



- Doctor Of Pharmacy Columbia University In The City Of New York
- Clinical Practice Residency Lenox Hill Hospital, NY
- Medication Therapy Management Certification
- Certification In Pharmacogenomic Management
- Licensed In New York and Florida
- Faculty Appointments Columbia & Belmont University
- Sr. Science Advisor Men's Health Network, Washington DC
- Chair-Emeritus, American Public Health Assoc. Men's Health Section
- Author/Co-Author> 80 peer-reviewed & general publications on health

Practicing over 45 years – and counting!

Caveats

This presentation is of general information and not to be taken as a professional consultation.

Discuss any questions or concerns with your health care provider. Do not stop or start any medications without discussion with a provider.

Can not do personal reviews at this program. Can answer general questions. Personal comprehensive reviews can be done by appointment.

I don't know all potential interactions by memory! In the US there are marketed: over 20.000 different prescription medications in the

over 20,000 different prescription medications in the US over 100, 000 different over the counter (OTC) medications & Supplements approximately 300 commonly used herbal products Food – food…lots of different things



CAUSES OF PAIN DUE TO PARKINSON'S PRIMARY MECHANISM OF DISEASE IMPACTS ALL OF THE BODY

- LOCAL MUSCULAR STIFFINESS
- ABDOMINAL PAIN (CONSTIPATION)

DYSTONIA(TOE-POSTURE CENTRAL (BRAIN) PAIN

(Diffuse Or Localized – 10%)

DYSKINESIA

OTHER CAUSES OF PAIN

- EVERYDAY STUFF
- ARTRITIC
- SIATICA

SKELETAL MUSCULAR

NEUROPATHY

Et Cetera Et Cetera Et Cetera

MOST PERSONS WITH CHRONIC PAIN ALSO HAVE CHRONIC DEPRESSION

DEPRESSION CAN & SHOULD BE TREATED.

- Identify the source of the pain, if possible,
- Optimize control of motor symptoms,
- Incorporate DAILY exercise,
- •Manage Personal/Family Expectations
- Physical Therapy & Speech Therapy
- Use non-pharmacologic Treatments
- Add pain medication as necessary.

WHAT MEDICATIONS CAN BE USED TO TREAT PAIN

MOST ANYTHING IN REASONABLE DOSES

MUST BE PERSONALIZED

ASSUME ALL NORMAL RISKS OF THE MEDICATION

WATCH FOR DRUG-INTERACTIONS

DR. NICHOLE NIGHTS AQUATIC HEALTH & REHAB



Parkinson's Wellness Recovery PWR program

Movement and Flexibility exercises that uses every muscle in the right way



DRUG INTERACTIONS

GENERAL CONCEPTS

PARKINSON MED COMMON CONCERNS

HOW TO DEAL WITH POTENTIAL INTERACTIONS

PAIN MANAGEMENT IN PARKINSONONS
SOME WHYS AND HOWS
MANAGEMENT

QUESTIONS

What Is A Drug Interaction

When the anticipated or expected action of a medication is changed by some other substance, circumstance or substrate.

General Types Of Drug Interactions

Patient Factors:

Age Prior Exposure/Reaction

Disease Condition Idiosyncratic Responses

Other Medications

Supplements & Herbals

Foods & Eating Times

Why & How Do Drug Interactions Happen

Pharmaco*dynamic* = How A Drug Works To Do That Voodoo That You Do Antagonism - interferes/negates
Additive/Synergistic - exacerbates response
Pharmaco*kinetic* = How The Body Moves Or Removes A Drug
Absorption Effects (increases/decreases)
Distribution Effects (more or less diffusion into system)

Elimination Effects (increase/decrease)

Genomic Related Metabolic Induction

Disease Related

History of condition (certain cancers, stroke, liver/kidney)

Other

Lab interference

Metabolic Shifts (Potassium Sparing Diuretics and amiloride)

Facts Graphs and Data Must Be INTERPURTED And Taken IN CONTEXT Of INDIVIDUAL PATIENT CIRCUMSTANCES And HISTORY

Most Interactions are "MAY BE" a concern A Few Interactions are "ALMOST ALWAYS" a concern Rarely are they "ALWAYS OCCUR"

Most Interactions Warrant "AWARNESS & PERSONAL/CLINICAL MONITORING"

A Few Interactions Warrant "CHANGE AS SOON AS PRACTICAL...(timing/dose/type/stop)"

Rarely are they "DANGER WILL ROBINSON! DANGER!"



Not All Interactions Are Bad

Enhance pharmacodynamic or pharmacokinetic properties of drug
Take Macrobid With Food

Multiple-drug regimens for synergistic effects

Carbidopa With Levodopa (Sinamet)

Exalon

Common in diabetes, Rx ulcers & asthma

Prevent Toxicity

B-6 with Isoniazid

Folic Acid with Methotrexate

MEDICATIONS TO GENERALLY AVOID

WITH L-DOPA/SINAMET AND RELATED DOPAMINE AGONISTS

OLDER ANTIDEPRESSANTS
OLDER ANTIEMTICS (ANTI-VOMITING)
OLDER BP-MEDS

METHALDOPA

RESERPINE

AMOXAPINE (ASENDA) ANITDEPRESSANT
BLOCK DOPAMINE – INTERFEAR WITH MANY DRUGS
(INCLUDES COMPAZINE FOR NAUSEA)

AVOID WITH SEGELINE (ELDAPRIL/DEPRANYL) OR AZILECT

- NARCOTIC ANAGESICS (DEMAROL/TRAMADOL/MORPH
- CERTAIN ANTIDEPRESSANTS (METRZAPINE
- CERTAIN HERBALS (ST. JOHN'S WORT)
- CERTAIN MUSCLE RELAXANTS (CYCLOBENZAPRINE)
- OTC MEDS PSEUDOPHEN/PHENYLEPHRINE/ EPHEDRINE

ASK YOUR PHARMACIST TO CHECK

How To Self-Care & Guard Against Interaction Problems

- Keep A List Of EVERYTHING You Take...Keep It With You
- With Any New Rx Or New OTC Medication: Ask Questions Of The Prescriber & Dispensing Pharmacist: "Please Take A Look At What I'm Taking To Make Sure This New Medicine Is OK."
- -Read Up Don't panic, Don't Self Manage Ask Questions
- -Be Alert To Any Change in How You Feel, Behave Or Look Particularly When Meds Change

Decreased Tremor Control Sleepiness Lightheadedness Anxiousness
Chest Fluttering
Trouble Breathing Rashes/Redness Bruising Hyper
Wobbly "Weird"
Consult Your Pharmacist and/or Person Who Prescribed The Medications

Thymine

Guanine

Pharmacogenomic Screening and Personalized Medication Selection

Using sophisticated Genetic Screening To Map Individual Genetically Determined Ability For Your Body To Respond To and Metabolize Drugs

Proper medication
Proper dosing
Medications to avoid
One test for life (with few exceptions such as radiation poisoning)

When To Use

Poor response with multiple trials of similar medications
Unusual responses
Poor metabolic profiles
Other

Dr. Sal Giorgianni Is Certified In Pharmacogenomic Evaluation And Counseling

