

CHIPS REGIMEN

344 FDC's Banned in India

The Health Ministry has banned 344 'Fixed Dose Combination' (FDC) drugs, leading to an immediate suspension of the manufacturing and sale of some popular medicines in India.

Fixed drug combinations have mushroomed in the market as the Pharmaceutical companies in their quest for newer products and to increase its sales, mix and match ingredients into a single molecule to market them as newer remedies. 344 of such combinations were banned in the month of March, 2016.

Keeping in view of the Risk that is associated with these Fixed drug combinations and safer alternatives being available in the market, the Ministry moved ahead with its decision to ban all the 344 fixed drug combinations.

Here is the list of 344 banned fixed Drug Combinations in India

*Aceclofenac + Paracetamol + Rabeprazole, *Nimesulide + Diclofenac, *Nimesulide + Cetirizine + Caffeine, *Nimesulide + Tizanidine, *Paracetamol + Cetirizine + Caffeine, *Diclofenac + Tramadol + Chlorzoxazone, *Dicyclomine + Paracetamol + Domperidone, *Nimesulide + Paracetamol dispersible tablets, *Paracetamol + Phenylephrine + Caffeine, *Diclofenac + Tramadol + Paracetamol, *Diclofenac + Paracetamol + Chlorzoxazone + Famotidine, *Naproxen + Paracetamol, *Nimesulide + Serratiopeptidase, *Paracetamol + Diclofenac + Famotidine, *Nimesulide + Pitofofenone + Fenpiverinium + Benzyl Alcohol, *Omeprazole + Paracetamol + Diclofenac, *Nimesulide + Paracetamol injection, *Tamsulosin + Diclofenac, *Paracetamol + Phenylephrine + Chlorpheniramine + Dextromethorphan + Caffeine, *Diclofenac + Zinc Carnosine, *Diclofenac + Paracetamol + Chlorpheniramine Maleate + Magnesium Trisilicate, *Paracetamol + Pseudoephedrine + Cetirizine, *Phenylbutazone + Sodium Salicylate, *Lornoxicam + Paracetamol + Trypsin, *Paracetamol + Mefenamic Acid + Ranitidine + Dicyclomine, *Nimesulide + Dicyclomine, *Heparin + Diclofenac, *Glucosamine + Methyl Sulfonyl Methane + Vitamin D3 + Manganese + Boron + Copper + Zinc, *Paracetamol + Tapentadol, *Tranexamic Acid + Proanthocyanidin, *Benzonoxonium Chloride + Lidocaine, *Lornoxicam + Paracetamol + Tramadol, *Lornoxicam + Paracetamol + Serratiopeptidase, *Diclofenac + Paracetamol + Magnesium Trisilicate, *Paracetamol + Domperidone + Caffeine, *Ammonium Chloride + Sodium Citrate + Chlorpheniramine Maleate + Menthol, *Paracetamol + Prochlorperazine Maleate, *Combikit of 3 tablets of Serratiopeptidase (enteric coated 20000 units) + Diclofenac Potassium & 2 tablets of Doxycycline, *Nimesulide + Paracetamol Suspension, *Aceclofenac + Paracetamol + Famotidine, *Aceclofenac + Zinc Carnosine, *Paracetamol + Disodium Hydrogen Citrate + Caffeine, *Paracetamol + DL Methionine, *Disodium Hydrogen Citrate + Paracetamol, *Paracetamol + Caffeine + Codeine, *Aceclofenac (SR) + Paracetamol, *Diclofenac + Paracetamol injection, *Azithromycin + Cefixime, *Amoxicillin + Dicloxacillin, *Amoxicillin 250 mg + Potassium Clavulanate Diluted 62.5 mg, *Azithromycin + Levofloxacin, *Cefixime + Linezolid, *Amoxicillin + Cefixime + Potassium Clavulanic Acid, *Ofloxacin + Nitazoxanide, *Cefpodoxime Proxetil + Levofloxacin, *Combikit of Azithromycin, Secnidazole and Fluconazole, *Levofloxacin + Ornidazole + Alpha Tocopherol Acetate, *Nimorazole + Ofloxacin, *Azithromycin + Ofloxacin, *Amoxicillin + Tinidazole, *Doxycycline + Serratiopeptidase, *Cefixime + Levofloxacin, *Ofloxacin + Metronidazole + Zinc Acetate,

*Diphenoxylate + Atropine + Furazolidone, *Combikit of Fluconazole Tablet, Azithromycin Tablet and Ornidazole Tablets, *Ciprofloxacin + Phenazopyridine, *Amoxicillin + Dicloxacillin + Serratiopeptidase, *Combikit of Fluconazole Tablet, Azithromycin Tablet and Ornidazole Tablets, *Ciprofloxacin + Phenazopyridine, *Amoxicillin + Dicloxacillin + Serratiopeptidase, *Azithromycin + Cefpodoxime, *Lignocaine + Clotrimazole + Ofloxacin + Beclomethasone, *Cefuroxime + Linezolid, *Ofloxacin + Ornidazole + Zinc Bisglycinate, *Metronidazole + Norfloxacin, *Amoxicillin + Bromhexine, *Ciprofloxacin + Fluticasone + Clotrimazole + Neomycin, *Metronidazole + Tetracycline, *Cephalexin + Neomycin + Prednisolone, *Azithromycin + Ambroxol, *Climidipine + Metoprolol Succinate + Metoprolol Tartrate, *L-Arginine + Sildenafil, *Atorvastatin + Vitamin D3 + Folic Acid + Vitamin B12 + Pyridoxine, *Metformin + Atorvastatin, *Clindamycin + Telmisartan, *Olmesartan + Hydrochlorothiazide + Chlorthalidone, *L-5-Methyltetrahydrofolate Calcium + Escitalopram, *Pholcodine + Promethazine, *Paracetamol + Promethazine, *Betahistine + Ginkgo Biloba Extract + Vinpocetine + Piracetam, *fixed dose combination of Cetirizine + Diethyl Carbamazepine, *Doxylamine + Pyridoxine + Mefenamic Acid + Paracetamol, *Drotaverine + Clidinium + Chlordiazepoxide, *Imipramine + Diazepam, *Flupitoxil + Escitalopram, *Paracetamol + Prochlorperazine, *Gabapentin + Mecobalamin + Pyridoxine + Thiamine, *Imipramine + Chlordiazepoxide + Trifluoperazine + Trihexyphenidyl, *Chlorpromazine + Trihexyphenidyl, *Ursodeoxycholic Acid + Silymarin, *Metformin 1000/1000/500/500mg + Pioglitazone 7.5/7.5/7.5mg + Glimperide 1/2/1/2mg, *Gliclazide 80 mg + Metformin 325 mg, *Voglibose + Metformin + Chromium Picolinate, *Pioglitazone 7.5/7.5mg + Metformin 500/1000mg, *Glimperide 1mg/2mg/3mg + Pioglitazone 15mg/15mg/15mg + Metformin 1000mg/1000mg/1000mg, *Glimperide 1mg/2mg + Pioglitazone 15mg/15mg + Metformin 850mg/850mg, *Metformin 850mg + Pioglitazone 7.5 mg + Glimperide 1mg, *Metformin 850mg + Pioglitazone 7.5 mg + Glimperide 1mg, *Metformin 500mg/500mg + Gliclazide SR 30mg/60mg + Pioglitazone 7.5mg/7.5mg, *Voglibose + Pioglitazone + Metformin, *Metformin + Bromocriptine, *Metformin + Glimperide + Methylcobalamin, *Pioglitazone 30 mg + Metformin 500 mg, *Glimperide + Pioglitazone + Metformin, *Glipizide 2.5mg + Metformin 400 mg, *Pioglitazone 15mg + Metformin 850 mg, *Metformin ER + Gliclazide MR + Voglibose, *Chromium Polynicotinate + Metformin, *Metformin + Gliclazide + Pioglitazone + Chromium Polynicotinate, *Metformin + Gliclazide + Chromium Polynicotinate, *Glibenclamide + Metformin (SR) + Pioglitazone, *Metformin (Sustained Release) 500mg + Pioglitazone 15 mg + Glimperide 3mg, *Metformin (SR) 500mg + Pioglitazone 5mg, *Chloramphenicol + Beclomethasone + Clotrimazole + Lignocaine, *Clotrimazole + Ofloxacin + Lignocaine + Glycerine and Propylene Glycol, *Chloramphenicol + Lignocaine + Betamethasone + Clotrimazole + Ofloxacin + Antipyrine, *Ofloxacin + Clotrimazole + Betamethasone + Lignocaine, *Gentamicin Sulphate + Clotrimazole + Betamethasone + Lignocaine, *Clotrimazole + Beclomethasone + Ofloxacin + Lignocaine, *fixed dose combination of Beclomethasone + Clotrimazole + Chloramphenicol + Gentamicin + Lignocaine Ear drops, *fixed dose combination of Flunarizine + Paracetamol + Domperidone, *fixed dose combination of Rabeprazole + Zinc Carnosine, *fixed dose combination of Magaldrate + Famotidine + Simethicone, *fixed dose combination of Cyproheptadine + Thiamine, *fixed dose combination of Magaldrate + Ranitidine + Pancreatin + Domperidone, *Ranitidine + Magaldrate +

Simethicone, *fixed dose combination of Magaldrate + Papain + Fungul Diastase + Simethicone, *fixed dose combination of Rabeprazole + Zinc + Domperidone, *fixed dose combination of Famotidine + Oxytaccine + Magaldrate, *fixed dose combination of Ranitidine + Domperidone + Simethicone, *fixed dose combination of Alginate Acid + Sodium Bicarbonate + Dried Aluminium Hydroxide + Magnesium Hydroxide, *fixed dose combination of Clidinium + Paracetamol + Dicyclomine + Activated Dimethicone, *fixed dose combination of Furazolidone + Metronidazole + Loperamide, *fixed dose combination of Rabeprazole + Diclofenac + Paracetamol, *fixed dose combination of Ranitidine + Magaldrate, *Norfloxacin + Metronidazole + Zinc Acetate, *fixed dose combination of Zinc Carnosine + Oxetacaine, *fixed dose combination of Oxetacaine + Magaldrate + Famotidine, *Pantoprazole (as Enteric Coated Tablet) + Zinc Carnosine (as Film Coated Tablets), *fixed dose combination of Zinc Carnosine + Magnesium Hydroxide + Dried Aluminium Hydroxide + Simethicone, *fixed dose combination of Zinc Carnosine + Sucralfate, *fixed dose combination of Mebeverine & Inner HPMC capsule (Streptococcus Faecalis + Clostridium butyricum + Bacillus mesentericus + Lactic Acid Bacillus), *fixed dose combination of Clindamycin + Clotrimazole + Lactic Acid Bacillus, *fixed dose combination of Sildenafil + Estradiol Valerate, *fixed dose combination of Clomifene Citrate + Ubidecarenone + Zinc + Folic Acid + Methylcobalamin + Pyridoxine + Lycopene + Selenium + Levocarnitine Tartrate + L-Arginine, *fixed dose combination of Thyroxine + Pyridoxine + Folic Acid, *fixed dose combination of Gentamycin + Dexamethasone + Chloramphenicol + Tobramycin + Ofloxacin, *fixed dose combination of Dextromethorphan + Levocetirizine + Phenylephrine + Zinc, *fixed dose combination of Nimesulide + Loratadine + Phenylephrine + Ambroxol, *fixed dose combination of Dextromethorphan + Bromhexine + Guaiphenesin, *fixed dose combination of Paracetamol + Loratadine + Phenylephrine + Dextromethorphan + Caffeine, *fixed dose combination of Nimesulide + Phenylephrine + Caffeine + Levocetirizine, *fixed dose combination of Azithromycin + Acebrophylline, *fixed dose combination of Diphenhydramine + Terpine + Ammonium Chloride + Sodium Chloride + Menthol, *fixed dose combination of Nimesulide + Paracetamol + Cetirizine + Phenylephrine, *fixed dose combination of Paracetamol + Loratadine + Dextromethorphan + Pseudoephedrine + Caffeine, *fixed dose combination of Chlorpheniramine Maleate + Dextromethorphan + Dextromethorphan + Guaiphenesin + Ammonium Chloride + Menthol, *fixed dose combination of Dextromethorphan + Guaiphenesin + Ammonium Chloride + Menthol, *fixed dose combination of Chlorpheniramine Maleate + Dextromethorphan + Dextromethorphan + Guaiphenesin + Ammonium Chloride + Phenylephrine + Menthol, *fixed dose combination of Cetirizine + Phenylephrine + Paracetamol + Zinc Gluconate, *fixed dose combination of Ambroxol + Guaiphenesin + Ammonium Chloride + Phenylephrine + Chlorpheniramine Maleate + Menthol, *fixed dose combination of Dextromethorphan + Bromhexine + Chlorpheniramine Maleate + Guaiphenesin, *fixed dose combination of Levocetirizine + Ambroxol + Phenylephrine + Guaiphenesin, *fixed dose combination of Dextromethorphan + Chlorpheniramine + Chlorpheniramine Maleate, *fixed dose combination of Cetirizine + Ambroxol + Guaiphenesin + Ammonium Chloride + Phenylephrine + Menthol, *fixed dose combination of Chlorpheniramine + Phenylephrine + Caffeine, *Dextromethorphan + Triprolidine + Phenylephrine, *fixed dose combination of Terpinhydrate + Dextromethorphan + Menthol, *Dextromethorphan + Phenylephrine + Zinc Gluconate + Menthol, *Chlorpheniramine + Codeine + Sodium Citrate + Menthol Syrup, *Enrofloxacin + Bromhexin, *Bromhexine + Dextromethorphan + Phenylephrine + Menthol, *Levofloxacin + Bromhexine, *Levocetirizine + Ranitidine, *Levocetirizine + Phenylephrine

Drug Information News Letter
Jan-Mar 2016, Volume 1, Issue 3



Printed & Published by

Dr.K. Basavapunnaiah, President

Dr.C.N. Srinivas, Secretary & Correspondent

Edited By

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Editorial Team:

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+ Ambroxol + Guaiphenesin + Paracetamol, *Cetirizine + Dextromethorphan + Phenylephrine + Zinc Gluconate + Paracetamol + Menthol, *Paracetamol + Pseudoephedrine + Dextromethorphan + Cetirizine, *Diphenhydramine + Guaiphenesin + Ammonium Chloride + Bromhexine, *Chlorpheniramine + Dextromethorphan + Phenylephrine + Paracetamol, *Dextromethorphan + Promethazine, *Diethylcabamazine Citrate + Cetirizine + Guaiphenesin, *Pseudoephedrine + Dextromethorphan + Cetirizine, *Chlorpheniramine + Phenylephrine + Dextromethorphan + Menthol, *Ambroxol + Terbutaline + Dextromethorphan, *Dextromethorphan + Chlorpheniramine + Guaiphenesin, *Terbutaline + Bromhexine + Guaiphenesin + Dextromethorphan, *Dextromethorphan + Triprolidine + Phenylephrine, *Paracetamol + Dextromethorphan + Chlorpheniramine, *Pholcodine + Phenylephrine + Promethazine, *Codeine + Levocetirizine + Menthol, *Dextromethorphan + Ambroxol + Guaifenesin + Phenylephrine + Chlorpheniramine, *Cetirizine + Phenylephrine + Dextromethorphan + Menthol, *Roxithromycin + Serratiaopeptidase, *Paracetamol + Phenylephrine + Triprolidine, *Acetaminophen + Loratadine + Ambroxol + Phenylephrine, *Cetirizine + Acetaminophen + Dextromethorphan + Phenylephrine + Zinc Gluconate, *Diphenhydramine + Guaifenesin + Bromhexine + Ammonium Chloride + Menthol, *Chlorpheniramine Maleate + Codeine Syrup, *Cetirizine + Dextromethorphan + Zinc Gluconate + Menthol, *Paracetamol + Phenylephrine + Desloratadine + Zinc Gluconate + Ambroxol, *Levocetirizine + Montelukast + Acebrophylline, *Dextromethorphan + Phenylephrine + Ammonium Chloride + Menthol, *Dextromethorphan + Bromhexine + Guaifenesin + Menthol, *Acrivastine + Paracetamol + Caffeine + Phenylephrine, *Naphazoline + Carboxy Methyl Cellulose + Menthol + Camphor + Phenylephrine, *Dextromethorphan + Cetirizine, *Nimesulide + Paracetamol + Levocetirizine + Phenylephrine + Caffeine, *Terbutaline + Ambroxol + Guaifenesin + Zinc + Menthol, *Codeine + Chlorpheniramine + Alcohol Syrup, *Dextromethorphan + Phenylephrine + Guaifenesin + Triprolidine, *Ammonium Chloride + Bromhexine + Dextromethorphan, *Diethylcabamazine + Cetirizine + Ambroxol, *Ethylmorphine + Noscapine + Chlorpheniramine, *Cetirizine + Dextromethorphan + Ambroxol, *Bromhexine + Dextromethorphan + Ammonium Chloride + Menthol, *Ambroxol + Guaifenesin + Phenylephrine + Chlorpheniramine Paracetamol + Phenylephrine + Chlorpheniramine + Zinc Gluconate, *Dextromethorphan + Phenylephrine + Cetirizine + Paracetamol + Caffeine, *Dextromethorphan + Chlorpheniramine + Guaifenesin + Ammonium Chloride, *Levocetirizine + Dextromethorphan + Zinc, *Paracetamol + Phenylephrine + Levocetirizine + Caffeine, *Chlorpheniramine + Ammonium Chloride + Sodium Chloride, *Paracetamol + Dextromethorphan + Bromhexine + Phenylephrine + Diphenhydramine, *Salbutamol + Bromhexine + Guaiphenesin + Menthol, *Chlorpheniramine + Ammonium Chloride + Noscapine + Sodium

Citrate, *Cetirizine + Dextromethorphan + Bromhexine + Guaifenesin, *Diethyl Carbamazine + Chlorpheniramine + Guaifenesin, *Ketotifen + Cetirizine, *Terbutaline + Bromhexine + Etofylline, *Ketotifen + Theophylline, *Ambroxol + Salbutamol + Theophylline, *Cetirizine + Nimesulide + Phenylephrine, *Chlorpheniramine + Phenylephrine + Paracetamol + Zinc Gluconate, *Acetaminophen + Guaifenesin + Dextromethorphan + Chlorpheniramine, *Cetirizine + Dextromethorphan + Phenylephrine + Tulsii, *Cetirizine + Phenylephrine + Paracetamol + Ambroxol + Caffeine, *Guaifenesin + Dextromethorphan, *Levocetirizine + Paracetamol + Phenylephrine + Caffeine, *Caffeine + Paracetamol + Phenylephrine + Chlorpheniramine, *Ketotifen + Levocetirizine, *Paracetamol + Levocetirizine + Phenylephrine + Zinc Gluconate, *Paracetamol + Phenylephrine + Triprolidine + Caffeine, *Caffeine + Paracetamol + Phenylephrine + Cetirizine, *Caffeine + Paracetamol + Chlorpheniramine, *Ammonium Chloride + Dextromethorphan + Cetirizine + Menthol, *Dextromethorphan + Paracetamol + Cetirizine + Phenylephrine, *Chlorpheniramine + Terpin + Antimony Potassium Tartrate + Ammonium Chloride + Sodium Citrate + Menthol, *Terbutaline + Etofylline + Ambroxol, *Paracetamol + Codeine + Chlorpheniramine, *Paracetamol + Pseudoephedrine + Cetirizine + Caffeine, *Chlorpheniramine + Ammonium Chloride + Menthol, *N-Acetyl Cysteine + Ambroxol + Phenylephrine + Levocetirizine, *Dextromethorphan + Phenylephrine + Triprolidine + Menthol, *Salbutamol + Cetirizine + Ambroxol, *Dextromethorphan + Phenylephrine + Bromhexine + Guaifenesin + Chlorpheniramine, *Nimesulide + Cetirizine + Phenylephrine, *Naphazoline + Chlorpheniramine + Zinc Sulphate + Boric Acid + Sodium Chloride + Chlorobutol, *Paracetamol + Bromhexine + Phenylephrine + Chlorpheniramine + Guaifenesin, *Salbutamol + Bromhexine, *Dextromethorphan + Phenylephrine + Guaifenesin + Cetirizine + Acetaminophen, *Guaifenesin + Bromhexine + Chlorpheniramine + Paracetamol, *Chlorpheniramine + Ammonium Chloride + Chloroform + Menthol, *Salbutamol + Choline Theophyllinate + Ambroxol, *Chlorpheniramine + Codeine Phosphate + Menthol Syrup, *Pseudoephedrine + Bromhexine, *Cetirizine + Phenylephrine + Paracetamol + Caffeine + Nimesulide, *Dextromethorphan + Cetirizine + Guaifenesin + Ammonium Chloride, *Ambroxol + Salbutamol + Choline Theophyllinate + Menthol, *Paracetamol + Chlorpheniramine + Ambroxol + Guaifenesin + Phenylephrine, *Chlorpheniramine + Vasaka + Tolubalsam + Ammonium Chloride + Sodium Citrate + Menthol, *Bromhexine + Cetirizine + Phenylephrine + IP + Guaifenesin + Menthol, *Dextromethorphan + Ambroxol + Ammonium Chloride + Chlorpheniramine + Menthol, *Dextromethorphan + Phenylephrine + Cetirizine + Zinc + Menthol, *Terbutaline + N-Acetyl L-Cysteine + Guaifenesin, *Calcium Gluconate + Levocetirizine, *Paracetamol + Levocetirizine + Pseudoephedrine, *Salbutamol + Choline, *Theophyllinate + Carbocisteine, *Chlorpheniramine + Vitamin C, *Calcium Gluconate + Chlorpheniramine

+ Vitamin C, *Chlorpheniramine + Paracetamol + Pseudoephedrine + Caffeine, *Guaifenesin + Bromhexine + Chlorpheniramine + Phenylephrine + Paracetamol + Serratiaopeptidase (as enteric coated granules) 10000 SP Units, *Paracetamol + Pheniramine, *Betamethasone + Fusidic Acid + Gentamycin + Tolnaftate + Iodochlorhydroxyquinoline (ICHQ), *Clobetasol + Ofloxacin + Miconazole + Zinc Sulphate, *Clobetasole + Gentamicin + Miconazole + Zinc Sulphate, *Levocetirizine + Ambroxol + Phenylephrine + Paracetamol, *Permethrin + Cetrimide + Menthol, *Bedomethasone + Clotrimazole + Neomycin + Iodochlorhydroxyquinoline, *Neomycin + Doxycycline, *Ciprofloxacin + Flucinolone + Clotrimazole + Neomycin + Chlorocresol, *Clobetasol + Ofloxacin + Ketoconazole + Zinc Sulphate, *Betamethasone + Gentamicin + Tolnaftate + Iodochlorhydroxyquinoline, *Clobetasol + Gentamicin + Tolnaftate + Iodochlorhydroxyquinoline + Ketoconazole, *Allantoin + Dimethicone + Urea + Propylene + Glycerin + Liquid Paraffin, *Acriflavine + Thymol + Cetrimide, *Betamethasone + Neomycin + Tolnaftate + Iodochlorhydroxyquinoline + Chlorocresol + Clotrimazole + Neomycin + Miconazole + Zinc Sulphate, *Ketoconazole + Tea Tree oil + Allantoin + Zinc Oxide + Aloe Vera + Jojoba oil + Lavander oil + Soa noodels, *Clobetasol Propionate + Ofloxacin + Omidazole + Terbinafine, *Clobetasol + Neomycin + Miconazole + Zinc Sulphate, *Bedomethasone Dipropionate + Neomycin + Tolnaftate + Iodochlorhydroxyquinoline + Chlorocresol, *Betamethasone + Gentamicin + Zinc Sulphate + Clotrimazole + Chlorocresol, *Borax + Boric Acid + Naphazoline + Menthol + Camphor + Methyl Hydroxy Benzoate, *Bromhexine + Dextromethorphan, *Dextromethorphan + Chlorpheniramine + Bromhexine, *Menthol + Anesthetic Ether, *Dextromethorphan + Chlorpheniramine + Ammonium + Sodium Citrate + Menthol, *Ergotamine Tartrate + Belladonna Dry Extract + Caffeine + Paracetamol, *Phenytin + Phenobarbitone, *Gliclazide 40mg + Metformin 400mg, *Paracetamol + Ambroxol + Phenylephrine + Chlorpheniramine, *Ofloxacin + Ornidazole Suspension, *Albuterol + Etofylline + Bromhexine + Menthol, *Albuterol + Bromhexine + Theophylline, *Salbutamol + Hydroxyethyltheophylline (Etofylline) + Bromhexine, *Paracetamol + Phenylephrine + Levocetirizine + Sodium Citrate, *Paracetamol + Propylphenazone + Caffeine, *Guaifenesin + Diphenhydramine + Bromhexine + Phenylephrine, *Dried Aluminium Hydroxide Gel + Prophantheline + Diazepam, *Bromhexine + Phenylephrine + Chlorpheniramine + Paracetamol, *Bedomethasone + Clotrimazole + Gentamicin + Iodochlorhydroxyquinoline, *Telmisartan + Metformin, *Ammonium Citrate + Vitamin B 12 + Folic Acid + Zinc Sulphate, *Levothyroxine + Thyridoxine + Nicotinamide, *Benfotiamine + Metformin, *Thyroid + Thiamine + Riboflavin + Thyridoxine + Calcium Pantothenate + Tocopheryl Acetate + Nicotinamide, *Ascorbic Acid + Manadione Sodium Bisulphate + Rutin + Dibasic Calcium Phosphate + Adrenochrome mono Semicarbazone, *Phenylephrine + Chlorpheniramine + Paracetamol + Bromhexine + Caffeine, *Clotrimazole + Bedomethasone + Lignocaine + Ofloxacin + Acetic Acid + Sodium Methyl Paraben + Propyl Paraben,

See more at: <http://indianexpress.com/article/india/india-news-india/do-you-take-one-of-these-300-banned-drugs/#sthash.iGLEDDLDPuf>

TODAY'S MUST WATCH

The following are few important drugs approved by US FDA during the month Jan-Mar 2016.

DRUG	BRAND	INDICATION
Onzetra Xsail	Sumatriptan nasal powder	Migrane
Briivact	Brivaracetam	Epilepsy
Anthim	Obiltoximab	Inhalation Anthrax
Odefsey	Emtricitabine, Rilpivirine, and Tenofovir	HIV as initial therapy

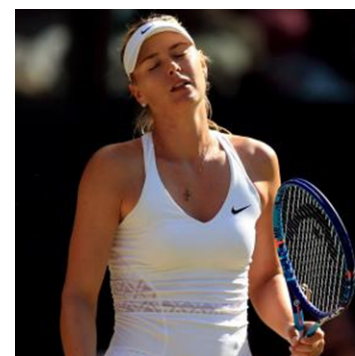
STUDENTS CORNER

Maria 'n' Mildronate!!

Many of us are aware about the news that Maria Sharapova, one of the best tennis player in women's circuit, was banned from professional tennis for reportedly using a banned drug called Mildronate (also known as meldonium). This article serves as a quick review about the drug and why it is banned by WADA (World Anti-Doping Agency).

Mildronate is an anti-ischemic drug with multiple indications, including Cardiology (treatment of chronic heart ischemic disease, stable angina pectoris, chronic heart failure, functional disorders of heart and vessels, cardiomyopathy, heart infarction), Neurology (acute and chronic ischemic brain circulation disorders, decreased work capabilities, physical and emotional overload, recovery period after various diseases) etc. Protection of the cells against cytotoxic metabolites is one of the possible strategies for treatment of the harmful consequences of ischemia and mildronate was designed as a promising inhibitor of carnitine biosynthesis aimed to prevent accumulation of cytotoxic intermediate products of fatty acid beta-oxidation in ischemic tissues and to block this highly oxygen consuming process. Mildronate also stimulates production of nitrous oxide in the endothelium of blood vessels which increases blood flow to tissues and organs. It is used in condition of reduced capacity to work, physical and psychoemotional overload. The most effective dose of Mildronate was found to be 500 mg twice a day.

However, Meldonium was added to the WADA list of banned substances on January 1st, 2016 because of "evidence of its use by athletes with the intention of enhancing performance." The action of the drug on CNS makes the athlete more active by decreasing motor dysfunction. Hence it was added to WADA list of 'Prohibited substance'.



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Alzheimer's Drugs for Smoking cessation?

Acetylcholinesterase inhibitors like Donepezil, Galantamine are the drugs which are widely used in the management of Alzheimer's disease. But recent studies showed that these drugs are can also be used for smoking cessation in chronic smokers.

The theoretical explanation depends largely on Acetylcholine, which is important for cognitive functions like learning and short-term memory. When nicotine enters the body, it binds to the same receptors in the brain that acetylcholine binds to, resulting in smoking's rewarding and reinforcement effects. Acetylcholinesterase inhibitors increase acetylcholine levels in the brain and, in effect, substitute nicotine's effects.

The short term trails being conducted at Penn's Center for Interdisciplinary Research on Nicotine Addiction is showing promising results and with days to come, these drugs could provide smokers yet another option to help them quit.

Reference : www.ncbi.nlm.nih.gov/pmc/articles/PMC3818476

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CLINICAL CONNECTION

Drug safety communication: Metformin

- ▶ The U.S. Food and Drug Administration (FDA) is requiring labeling changes regarding the recommendations for metformin-containing medicines for diabetes to expand metformin's use in certain patients with reduced kidney function. The current labeling strongly recommends against use of metformin in some patients whose kidneys do not work normally because use of metformin in these patients can increase the risk of lactic acidosis.
- ▶ FDA concluded from the review of studies published in the medical literature that metformin can be used safely in patients with mild impairment in kidney function and in some patients with moderate impairment in kidney function. Health care professionals should follow the latest recommendations when prescribing metformin-containing medicines to patients with impaired kidney function.

Reference : www.fda.gov/Drugs/DrugSafety/ucm493244.htm

Drug safety communication: Opioid Analgesics

- ▶ The U.S. Food and Drug Administration (FDA) is warning about several safety issues with the entire class of opioid pain medicines. These safety risks are potentially harmful interactions with numerous other medications, problems with the adrenal glands, and decreased sex hormone levels.
- ▶ The following are the changes that have to be made to the labels containing opioid analgesics:
 - Opioids can interact with antidepressants and migraine medicines to cause a serious central nervous system reaction called serotonin syndrome, in which high levels of the chemical serotonin build up in the brain and cause toxicity.
 - Taking opioids may lead to a rare, but serious condition in which the adrenal glands do not produce adequate amounts of the hormone cortisol. Cortisol helps the body respond to stress.
 - Long-term use of opioids may be associated with decreased sex hormone levels and symptoms such as reduced interest in sex, impotence, or infertility.

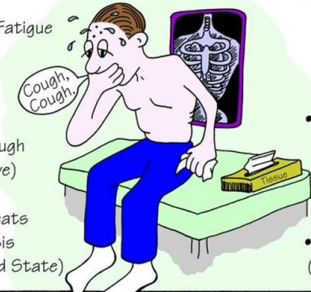
Reference : www.fda.gov/Drugs/DrugSafety/ucm489676.htm

ADVICE

- Tuberculosis is an infectious bacterial disease caused by Mycobacterium tuberculosis, which most commonly affects the lungs. It is transmitted from person to person via droplets from the throat and lungs of people with the active respiratory disease.
- Anti-Tubercular Therapy, also known as ATT regimen consists of 4 drugs (Isoniazid, Rifampicin, Pyrazinamide and Ethambutol) which is used to treat various forms of tuberculosis and its duration of therapy is dependent on the type of tuberculosis.
- The most common adverse effects associated with ATT regimen are generalized weakness, Peripheral Neuropathy, Discoloration of urine, tears, sweat etc., Hepatotoxicity.
- Improper use of ATT regimen and non-adherence gives rise to a phenomenon called as Drug resistant and Multi drug resistant TB.

24th MARCH : WORLD TUBERCULOSIS DAY

TUBERCULOSIS (TB)

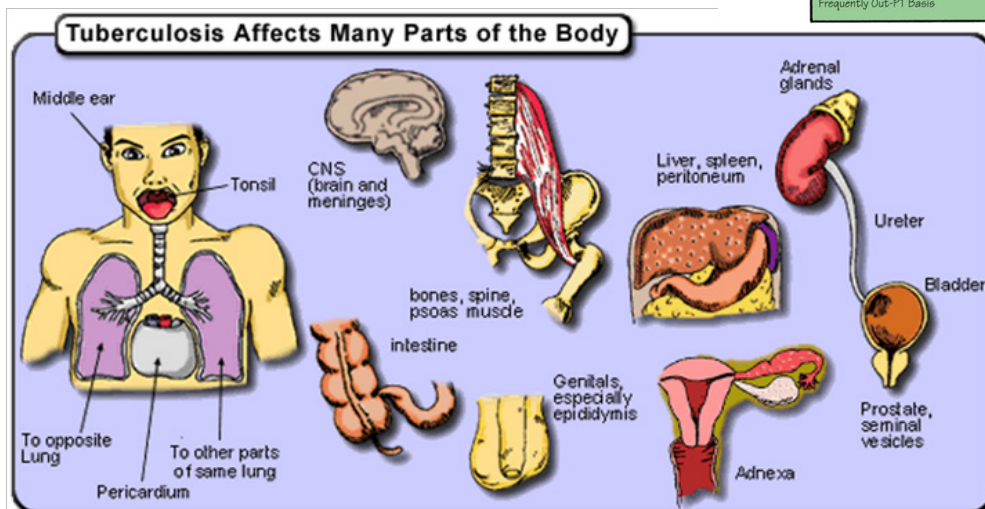


• Progressive Fatigue
• Malaise
• Anorexia
• Wt. Loss

• Chronic Cough (Productive)
• Night Sweats
• Hemoptysis (Advanced State)

• Pleuritic Chest Pain
• Low Grade Temp (Late Afternoon)

Treatment:	Diagnosis:
TB Medications 6 to 12 Months Decreased Activity Resp Isolation Until Negative Sputum Frequently Out-PT Basis	TB Skin Test (screening) Chest X-Ray Sputum Studies (3 specimens collected on different days)



STAFF PUBLICATIONS

1. S.Vidyadhara, T.N.V.Ganesh Kumar, B.Venkateswara Rao, D.Suryanarayana Raju and D.Jaswanth Ram. An Economic Method Development and Validation for the Estimation of Emtricitabine in Bulk and Formulation. Acta Ciencia Indica, Vol.XLI C, No.3, 103, 2015.
2. S.Vidyadhara, K.Vijetha, R.L.C.Sasidhar, T.N.V.Ganesh Kumar and A.Indira. Method Development and Validation of Newly Synthesized Ciprofloxacin Hydrzide by RPHPLC. Acta Ciencia Indica, Vol.XLI C, No.4, 2015.
3. Taraka Ramarao Nadella, Vidyadhara Suryadevara, Sasidhar Reddyvallam Lankapalli, Venkata Basaveswara Rao Mandava, Deepti Bandarupalli. LC-MS/MS Method Development for Quantification of Busulfan in Human Plasma and its Application in Pharmacokinetic Study. Journal of Pharmaceutical and Biomedical Analysis. 120 (2016) 168-174.
4. S.Vidyadhara, A.Ramu, RLC.Sasidhar, K.Sahitya and P.Anuradha. Enhancement of Solubility and Dissolution Rate of Simvastatin by Microwave Assisted Method. Indian Pharmacist. Volume XIII, No 7, January- 2016.
5. Vidyadhara Suryadevara, Sasidhar Reddyvalam Lankapalli, Balakrishna Thalamanchi, Anuradha Patcha, Lakshmi Harika Danda. Design and Evaluation of Verapamil Hydrochloride Controlled Release Hydrogel-Based Matrix Tablets. Asian Journal of Pharmaceutics, Jan-Mar 2016, 10 (1), 51.
6. T. N. V. Ganesh Kumar, S. Vidyadhara, K. Vijetha, A. Indira, B. Venkateswara Rao and A. Varada Reddy. Synthesis, Biological Evaluation of a Novel Derivative of Ciprofloxacin and its Method Development and Validation by UV Spectroscopic Method. Der Pharmacia Lettre, 2016, 8 (2), 131-137.

Republic Day Celebrations at CHIPS (26/01/2016)



PHARMA EXPO AT CHIPS (13/02/2016)



Prof.C.Mallikarjuna Rao, Principal, Manipal College of Pharmaceutical Sciences at **CHIPS (18/03/2016)**

Training programme on Family Business Management in association with Indian Pharmaceutical Association at CHIPS (24/03/2016)



We are Glad to Receive your Feedback to chipsregimen@gmail.com

An Official Publication from Drugs and Poison Information Center, Department of Clinical Pharmacy
Chebrolu Hanumaiah Institute of Pharmaceutical Sciences, Guntur-19