

# Oral Diabetes Agents

September, 2005

Oral Diabetes Agents Class/Action	Generic/Trade Name	Dose Sizes	Dose per day in mg	Dose Interval	Peak (hrs)	Side Effects	Contraindications
					Duration (hrs)		
Sulfonylurea/ Secretagogue; Beta Cell	Glyburide/ Micronase, Diabeta	2.5, 5 mg	1.25-20 mg	1-2 times daily with meals	4	Weight gain, hypoglycemia, GI upset, photosensitivity	<b>*Caution in elderly with decreased renal function.</b> Allergy.
					12-24		
Sulfonylurea/ Secretagogue; Beta Cell	Micronized Glyburide/ Glynase Prestab	1.5, 3, 6 mg	0.75-12 mg	1-2 times daily with meals	2	Weight gain, hypoglycemia, GI upset, photosensitivity	<b>*Caution in elderly with decreased renal function.</b> Allergy.
					12-24		
Sulfonylurea/ Secretagogue; Beta Cell	Glipizide/ Glucotrol	5, 10 mg	2.5-40 mg	1-3 times daily 30 minutes before meals	1-3	Weight gain, Hypoglycemia, GI upset, photosensitivity	<b>*Caution in elderly with decreased renal function.</b> Allergy.
					12-24		
Sulfonylurea/ Secretagogue; Beta Cell	Glipizide-GITS/ Glucotrol XL	2.5, 5, 10 mg	2.5-20 mg	1 time daily with meal	6-12	Weight gain, hypoglycemia, GI upset, photosensitivity	<b>*Caution in elderly with decreased renal function.</b> Allergy.
					24		
Sulfonylurea/ Secretagogue; Beta Cell	Glimepiride/ Amaryl	1, 2, 4 mg	1-8 mg	1 time daily with meal	2-3	Weight gain, hypoglycemia, GI upset, photosensitivity	<b>*Caution in elderly with decreased renal function.</b> Allergy.
					24		

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Meglitinide/ Secretagogue; Beta Cell	Repaglinide/ Prandin	0.5, 1, 2 mg	0.5-16 mg	1-4 times daily, 1-30 minutes before meals	1	Weight gain, hypoglycemia, GI upset, photosensitivity	Allergy
					4-6		
Meglitinide/ Secretagogue; Beta Cell	Nateglinide/ Starlix	60, 120 mg	180-360 mg	1-3 times daily, 1-30 minutes before meals	0.3	Weight gain, hypoglycemia	Allergy.
					4		
Thiazolidinedione/ Sensitizer; Receptor	Rosiglitazone/ Avandia	2, 4, 8 mg	4-8 mg	1-2 times daily	n/a	Edema, weight gain, increase ovulation in pre-menopausal women	<p><b>*Do not give if ALT is &gt; 2.5 times the ULN.</b>  Monitor LFT's every 2 months for the first 12 months of therapy.  Evaluate for previous MI, CHD, CHF, aortic or mitral valve disease. <b>*Use cautiously in Class I or II NYHA CHF; do not use in Class III or IV NYHA CHF. Monitor weight.</b></p>
					days-weeks		

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Thiazolidinedione/ Sensitizer; Receptor	Pioglitazone / Actos	15, 30, 45 mg	15-45 mg	1 time daily	n/a	Edema, weight gain, increase ovulation in pre-menopausal women	*Do not give if ALT is > 2.5 times the ULN. Monitor LFT's every 2 months for the first 12 months of therapy. Evaluate for previous MI, CHD, CHF, aortic or mitral valve disease. *Use cautiously in Class I or II NYHA CHF; do not use in Class III or IV NYHA CHF. Monitor weight.
					days-weeks		
Biguanide/ Sensitizer; Liver, Receptor	Metformin/ Glucophage; Riomet oral solution (100 mg / mL)	500, 85-, 1000 mg	1000-2550 mg	1-3 times daily with meals	2-3	Nausea, diarrhea, abdominal pain, possible resumption of ovulation in pre-menopausal anovulatory women	*Lactic Acidosis is a rare side effect if renal, hepatic, or cardiac disease or dysfunction is present. Caution patients against excessive alcohol intake with hepatic impairment. Discontinue metformin at the time of or before radiologic studies involving IV iodinated contrast materials. Withhold metformin for 48 hours after the procedure and restart only after renal function has been reevaluated and determined to be normal. *Do not give if Creatinine $\geq$ 1.4 mg/dl in females; $\geq$ 1.5 mg/dl in males.
					12-18		

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Biguanide/ Sensitizer; Liver, Receptor	Metformin Extended Release/ Glucophage XR	500, 750 mg	1000- 2000 mg	1 time daily with evening meal	4-8	Nausea, diarrhea, abdominal pain, possible resumption of ovulation in pre- menopausal anovulatory women	<p><b>*Lactic Acidosis</b> is a rare side effect if renal, hepatic, or cardiac disease or dysfunction is present. Caution patients against excessive alcohol intake with hepatic impairment. <b>Discontinue metformin at the time of or before radiologic studies involving IV iodinated contrast materials. Withhold metformin for 48 hours after the procedure and restart only after renal function has been reevaluated and determined to be normal.</b></p> <p><b>*Do not give if Creatinine <math>\geq</math> 1.4 mg/dl in females; <math>\geq</math> 1.5 mg/dl in males.</b></p>
					24		

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Alpha-Glucosidase Inhibitor/Delay digestion and absorption of CHO; Small Intestine	Acarbose/ Precose	25, 50, 100 mg	150-300 mg	1-3 times daily at the start of each meal	n/a	Diarrhea, flatulence, abdominal discomfort	<p><b>*Do not give if Creatinine &gt; 2.0 mg/dl or Creatinine Clearance &lt; 25 mL/min.</b></p> <p>Use cautiously with inflammatory bowel disease, colonic ulceration, or obstructive bowel disorders.</p> <p><b>*Do not give if cirrhosis of the liver is present.</b></p>
					2-3		
Alpha-Glucosidase Inhibitor/Delay digestion and absorption of CHO; Small Intestine	Miglitol/ Glyset	25, 50, 100 mg	150-300 mg	1-3 times daily at the start of each meal	n/a	Diarrhea, flatulence, abdominal discomfort	<p><b>*Do not give if Creatinine &gt; 2.0 mg/dl or Creatinine Clearance &lt; 25 mL/min.</b></p> <p>Use cautiously with inflammatory bowel disease, colonic ulceration, or obstructive bowel disorders.</p> <p><b>*Do not give if cirrhosis of the liver is present.</b></p>
					2-3		
Fixed Combinations	Glyburide and Metformin/ Glucovance	1.25/250, 2.5/500, 5/500 mg	2.5/500- 20/2000 mg	1-2 times daily with meals	See above	See above	See above
					See above		

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Fixed Combinations	Glipizide and Metformin/ Metaglip	2.5/250, 2.5/500, 5/500 mg	2.5/500- 10/2000 mg	1-2 times daily with meals	See above	See above	See above
					See above		
Fixed Combinations	Rosiglitazone and Metformin/ Avandamet	1/500, 2/250, 2/500, 4/500, 2/1000, 4/1000 mg	1/500- 8/2000 mg	1-2 times daily with meals	See above	See above	See above
					See above		