# Hepatic Events in oral antidiabetic – exposed patients in a Midwestern employer claims database (preliminary data)

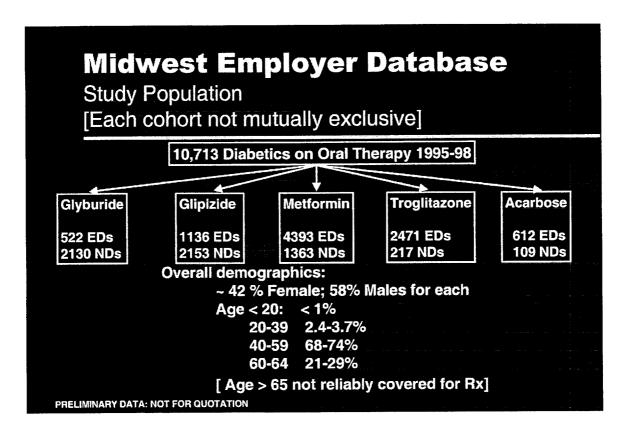
Judith K. Jones, MD, PhD The Degge Group, Ltd. March 26, 1999

## Midwestern Employer Database Study

- Population of 1.6 million persons in midwestern employer insurance database (1994-1998)
- 14,379 persons exposed to oral antidiabetics
- 10,713 persons with exposed from 1/1/95 through 9/30/98 with at least 6 months eligibility prior to first Rx and eligible for all benefits during period:
  - New Diabetics (ND): no prior oral antidiabetics
  - Established Diabetics(ED): prior oral antidiabetic therapy

### **Midwest Employer Database**Methods

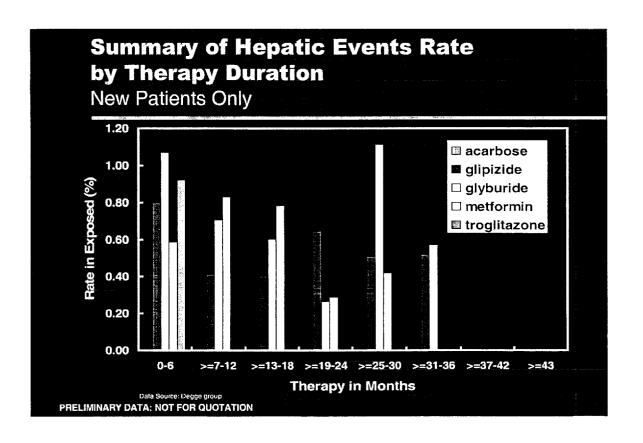
- All patients were followed from first Rx for each antidiabetic to end of eligibility period
- Counted if prior Rx in last 60 days
- Cohorts examined by drug exposure, thus not mutually exclusive
- Thus New Diabetic for Drug 1 would be Established
- Diabetic for next antidiabetic Rx
- All health care utilization, hepatic events and liver function monitoring identified for each patient by both calender and therapy month

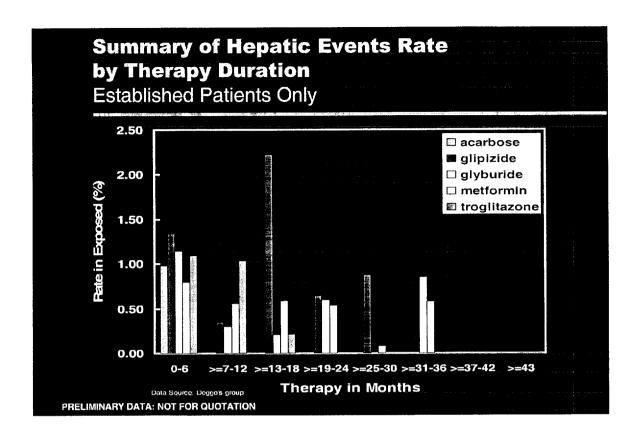


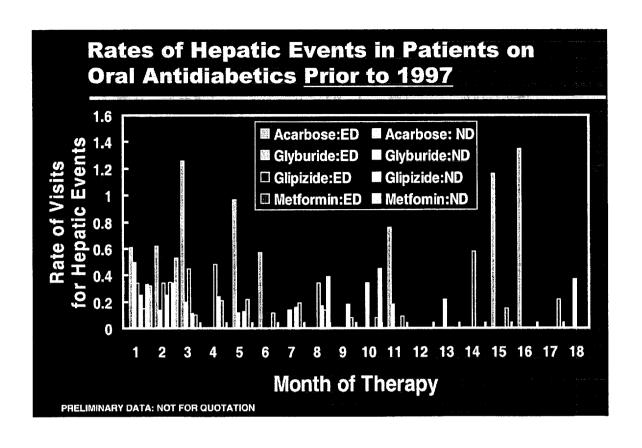
#### **ICD-9CM CODES**

- 570 -Acute and subacute Necrosis of Liver
- 572.2- Hepatic Coma
- 573.3- Hepatitis, Unspecified
- 573.9- Liver Disorder, Unspecified
- 782.4- Jaundice
- E932.3- Adverse Effects In Diabetic Due to Diabetic Medication

Source: International Classification of Diseases(ICD-9-CM) 1998 Edition





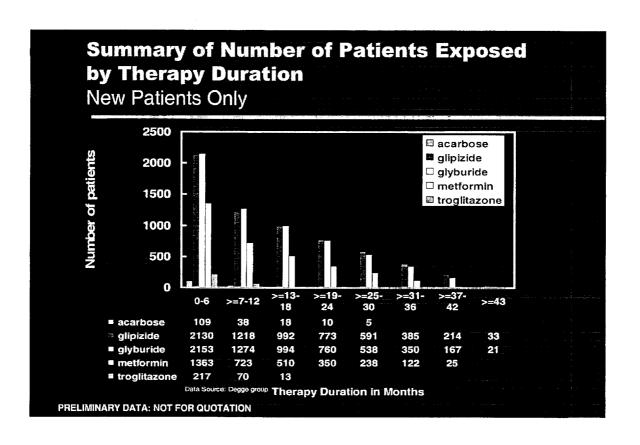


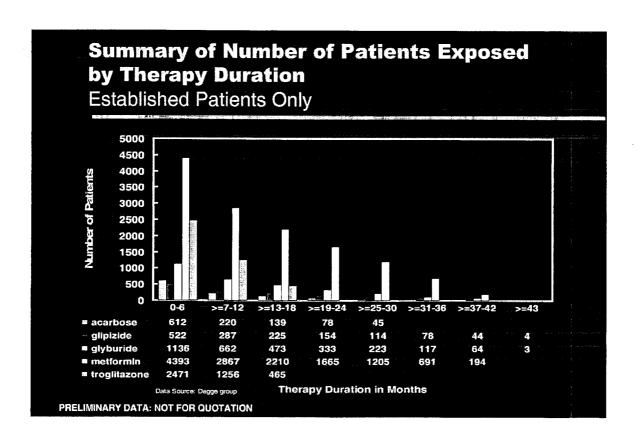
## Cases of Hepatic Necrosis, Coma or Jaundice

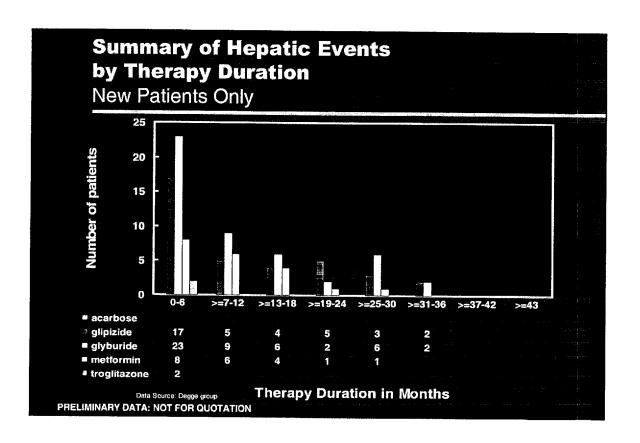
Oral Antidiabetic-Exposed Patients
Midwestern Database

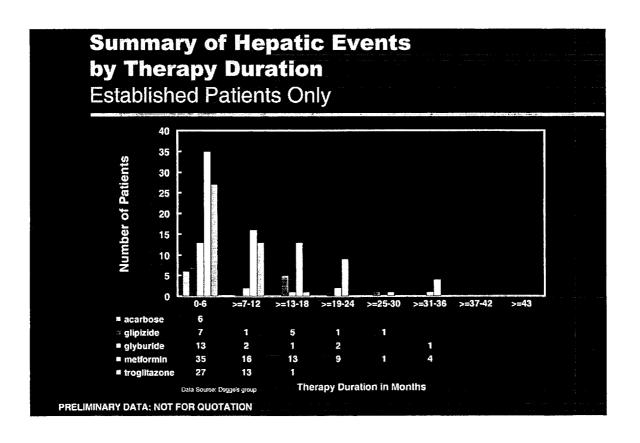
Exposure Group	ICD 9 Code Group				
	N	Transplant	Necrosis	Coma	Jaundice
Glyburide	2652	1		-	4
Glipizide	3289		3	1.	2
Metformin	5756	-	1	1	5
Troglitizone	2688		-	· · · · · · · · · · · · · · · · · · ·	1*
Acarbose	721	-	-	1 <del>-</del>	1

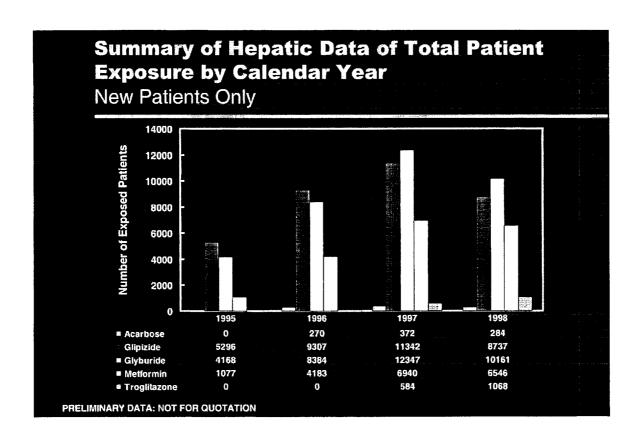
<sup>\*2</sup> Other cases occurred before troglitazone available.
PRELIMINARY DATA: NOT FOR QUOTATION

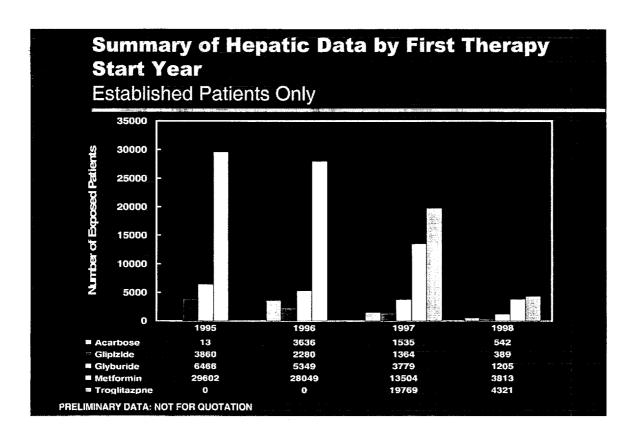


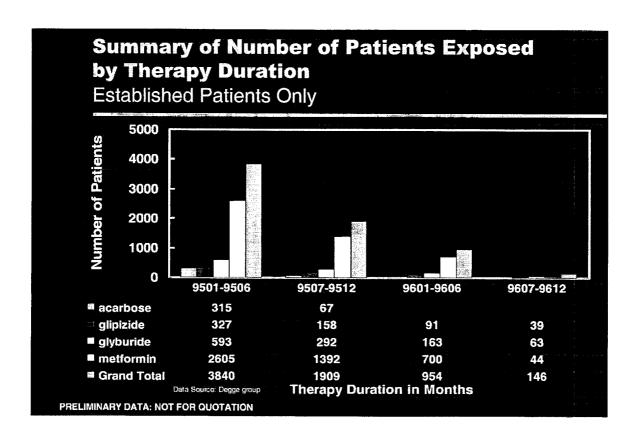












#### Addendum to March 26, 1999 Briefing Book

Please note the following revisions to the March 26, 1999 Briefing Book:

<u>Page</u>	Revision
11	Last full paragraph: As per Dr. Watkins' update, total liver-related death, regardless of causality, is 75.
17	Change in incidence table: Line $1-1$ in 45,000 Line 3, right column – 1 in $103,545$
22	Carryover paragraph: No Rezulin-treated patients were identified in telephone survey.