

Stanford

Richard I. Mazze

Professor of Anesthesia, Emeritus

Anesthesiology, Perioperative and Pain Medicine

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Anesthesiology, Perioperative and Pain Medicine

Publications

PUBLICATIONS

- **Methoxyflurane revisited - Tale of an anesthetic from cradle to grave** *ANESTHESIOLOGY*
Mazze, R. I.
2006; 105 (4): 843-846
- **The effects of sevoflurane on serum creatinine and blood urea nitrogen concentrations: A retrospective, twenty-two-center, comparative evaluation of renal function in adult surgical patients** *ANESTHESIA AND ANALGESIA*
Mazze, R. I., Callan, C. M., Galvez, S. T., Delgado-Herrera, L., Mayer, D. B.
2000; 90 (3): 683-688
- **Trace nitrous oxide levels in the postanesthesia care unit** *ANESTHESIA AND ANALGESIA*
McGregor, D. G., Senjem, D. H., Mazze, R. I.
1999; 89 (2): 472-475
- **Economic benefits attributed to opening a preoperative evaluation clinic for outpatients** *ANESTHESIA AND ANALGESIA*
Pollard, J. B., Zboray, A. L., Mazze, R. I.
1996; 83 (2): 407-410
- **DEVELOPMENTAL TOXICITY OF NONDEPOLARIZING MUSCLE-RELAXANTS IN CULTURED RAT EMBRYOS** *ANESTHESIOLOGY*
Fujinaga, M., Baden, J. M., Mazze, R. I.
1992; 76 (6): 999-1003
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF A MAJOR EARTHQUAKE IN RATS** *LABORATORY ANIMAL SCIENCE*
Fujinaga, M., Baden, J. M., Mazze, R. I.
1992; 42 (2): 209-210
- **ADVERSE INTERACTION BETWEEN BUPIVACAINE AND HALOTHANE ON VENTRICULAR CONTRACTILE-FORCE AND INTRAVENTRICULAR-CONDUCTION IN THE DOG** *ANESTHESIA AND ANALGESIA*
BERTRIX, L., Timour, Q., Mazze, R. I., Freysz, M., Samii, K., Faucon, G.
1991; 73 (4): 434-440
- **APPENDECTOMY DURING PREGNANCY - A SWEDISH REGISTRY STUDY OF 778 CASES** *OBSTETRICS AND GYNECOLOGY*
Mazze, R. I., Kallen, B.
1991; 77 (6): 835-840
- **PREVENTIVE EFFECTS OF PHENOXYBENZAMINE ON NITROUS OXIDE-INDUCED REPRODUCTIVE TOXICITY IN SPRAGUE-DAWLEY RATS** *TERATOLOGY*
Fujinaga, M., Baden, J. M., Suto, A., MYATT, J. K., Mazze, R. I.
1991; 43 (2): 151-157

- **NEURAL-TUBE DEFECTS AND 1ST TRIMESTER OPERATIONS** *TERATOLOGY*
Kallen, B., Mazze, R. I.
1990; 41 (6): 717-720
- **ENHANCEMENT BY HYPONATREMIA AND HYPERKALEMIA OF VENTRICULAR CONDUCTION AND RHYTHM DISORDERS CAUSED BY BUPIVACAINE** *ANESTHESIOLOGY*
Timour, Q., Freysz, M., Mazze, R., COUZON, P., BERTRIX, L., Faucon, G.
1990; 72 (6): 1051-1056
- **NITROUS-OXIDE ALTERS BODY LATERALITY IN RATS** *TERATOLOGY*
Fujinaga, M., Baden, J. M., Shepard, T. H., Mazze, R. I.
1990; 41 (2): 131-135
- **SUSCEPTIBLE PERIOD OF NITROUS-OXIDE TERATOGENICITY IN SPRAGUE-DAWLEY RATS** *TERATOLOGY*
Fujinaga, M., Baden, J. M., Mazze, R. I.
1989; 40 (5): 439-444
- **REPRODUCTIVE OUTCOME AFTER ANESTHESIA AND OPERATION DURING PREGNANCY - A REGISTRY STUDY OF 5405 CASES** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
Mazze, R. I., Kallen, B.
1989; 161 (5): 1178-1185
- **CARCINOGEN BIOASSAY OF ISOFLURANE IN MICE** *ANESTHESIOLOGY*
Baden, J. M., KUNDOMAL, Y. R., Mazze, R. I., Kosek, J. C.
1988; 69 (5): 750-753
- **TERATOGENIC AND POSTNATAL DEVELOPMENTAL STUDIES OF MORPHINE IN SPRAGUE-DAWLEY RATS** *TERATOLOGY*
Fujinaga, M., Mazze, R. I.
1988; 38 (5): 401-410
- **RAT WHOLE EMBRYO CULTURE - AN INVITRO MODEL FOR TESTING NITROUS-OXIDE TERATOGENICITY** *ANESTHESIOLOGY*
Fujinaga, M., Mazze, R. I., Baden, J. M., Fantel, A. G., SHEPHARD, T. H.
1988; 69 (3): 401-404
- **HALOTHANE PREVENTS NITROUS-OXIDE TERATOGENICITY IN SPRAGUE-DAWLEY RATS - FOLINIC ACID DOES NOT** *TERATOLOGY*
Mazze, R. I., Fujinaga, M., Baden, J. M.
1988; 38 (2): 121-127
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF SUFENTANIL AND ALFENTANIL IN SPRAGUE-DAWLEY RATS** *ANESTHESIA AND ANALGESIA*
Fujinaga, M., Mazze, R. I., Jackson, E. C., Baden, J. M.
1988; 67 (2): 166-169
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF NITROUS-OXIDE, ISOFLURANE, AND THEIR COMBINATION IN SPRAGUE-DAWLEY RATS** *ANESTHESIOLOGY*
Fujinaga, M., Baden, J. M., YHAP, E. O., Mazze, R. I.
1987; 67 (6): 960-964
- **HALOTHANE METABOLISM IN CIRRHOTIC RATS** *ANESTHESIOLOGY*
Baden, J. M., Serra, M., Fujinaga, M., Mazze, R. I.
1987; 67 (5): 660-664
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF NITROUS-OXIDE, FENTANYL AND THEIR COMBINATION IN SPRAGUE-DAWLEY RATS** *BRITISH JOURNAL OF ANAESTHESIA*
Mazze, R. I., Fujinaga, M., Baden, J. M.
1987; 59 (10): 1291-1297
- **INHIBITION OF RAT FETAL METHIONINE SYNTHASE BY NITROUS-OXIDE - AN INVITRO STUDY** *BRITISH JOURNAL OF ANAESTHESIA*
Baden, J. M., Serra, M., Mazze, R. I.
1987; 59 (8): 1040-1043

- **HALOTHANE HEPATOTOXICITY IN FISCHER 344 RATS PRETREATED WITH ISONIAZID** *TOXICOLOGY AND APPLIED PHARMACOLOGY*
Rice, S. A., Maze, M., Smith, C. M., Kosek, J. C., Mazze, R. I.
1987; 87 (3): 411-419
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF LIDOCAINE IN SPRAGUE-DAWLEY RATS** *ANESTHESIOLOGY*
Fujinaga, M., Mazze, R. I.
1986; 65 (6): 626-632
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF FENTANYL IN SPRAGUE-DAWLEY RATS** *TERATOLOGY*
Fujinaga, M., Stevenson, J. B., Mazze, R. I.
1986; 34 (1): 51-57
- **CARCINOGEN BIOASSAY OF NITROUS-OXIDE IN MICE** *ANESTHESIOLOGY*
Baden, J. M., KUNDOMAL, Y. R., LUTTROPP, M. E., Mazze, R. I., Kosek, J. C.
1986; 64 (6): 747-750
- **REPRODUCTIVE AND TERATOGENIC EFFECTS OF NITROUS-OXIDE, HALOTHANE, ISOFLURANE, AND ENFLURANE IN SPRAGUE-DAWLEY RATS** *ANESTHESIOLOGY*
Mazze, R. I., Fujinaga, M., Rice, S. A., Harris, S. B., Baden, J. M.
1986; 64 (3): 339-344
- **BIOTRANSFORMATION OF HALOTHANE AND ENFLURANE IN PATIENTS WITH HYPERTHYROIDISM** *ANESTHESIOLOGY*
SERVIN, F. F., Nivoche, Y., Desmots, J. M., Rice, S. A., Mazze, R. I.
1986; 64 (3): 387-391
- **FERTILITY, REPRODUCTION, AND POSTNATAL SURVIVAL IN MICE CHRONICALLY EXPOSED TO ISOFLURANE** *ANESTHESIOLOGY*
Mazze, R. I.
1985; 63 (6): 663-667
- **ADDICTION AND ANESTHESIOLOGY** *ANESTHESIOLOGY*
SPIEGELMAN, W. G., Saunders, L., Mazze, R. I.
1984; 60 (4): 335-341
- **LIVER-FUNCTION AND ANESTHETIC METABOLISM IN RATS WITH CHRONIC RENAL IMPAIRMENT** *ANESTHESIOLOGY*
Rice, S. A., SIEVENPIPER, T. S., Mazze, R. I.
1984; 60 (5): 418-421
- **FLUORINATED ANESTHETIC NEPHROTOXICITY - AN UPDATE** *CANADIAN ANAESTHETISTS SOCIETY JOURNAL*
Mazze, R. I.
1984; 31 (3): S16-S22
- **RENAL EFFECTS OF ENFLURANE AND HALOTHANE IN PATIENTS WITH ABNORMAL RENAL-FUNCTION** *ANESTHESIOLOGY*
Mazze, R. I., SIEVENPIPER, T. S., Stevenson, J.
1984; 60 (2): 161-163
- **CITATION CLASSIC - METHOXYFLURANE METABOLISM AND RENAL DYSFUNCTION - CLINICAL CORRELATION IN MAN** *CURRENT CONTENTS/CLINICAL PRACTICE*
Mazze, R. I.
1984: 12-12
- **METABOLISM OF THE INHALED ANESTHETICS - IMPLICATIONS OF ENZYME-INDUCTION** *BRITISH JOURNAL OF ANAESTHESIA*
Mazze, R. I.
1984; 56 (1): S27-S41
- **METABOLISM BY RAT HEPATIC MICROSOMES OF FLUORINATED ETHER ANESTHETICS FOLLOWING ETHANOL-CONSUMPTION** *ANESTHESIOLOGY*
Rice, S. A., Dooley, J. R., Mazze, R. I.
1983; 58 (3): 237-241
- **EFFECTS OF DROPERIDOL ON LEFT-VENTRICULAR PERFORMANCE IN HUMANS** *ANESTHESIOLOGY*

-
- Marty, J., Nitenberg, A., Blanchet, F., LAFFAY, N., Mazze, R. I., Desmots, J. M.
1982; 57 (1): 22-25
- **ISONIAZID-INDUCED ENFLURANE DEFLUORINATION IN HUMANS** *ANESTHESIOLOGY*
Mazze, R. I., Woodruff, R. E., HEERDT, M. E.
1982; 57 (1): 5-8
 - **REPRODUCTION AND FETAL DEVELOPMENT IN MICE CHRONICALLY EXPOSED TO ENFLURANE** *ANESTHESIOLOGY*
Wharton, R. S., Mazze, R. I., Wilson, A. I.
1981; 54 (6): 505-510
 - **OCCUPATIONAL EXPOSURE TO HALOTHANE RESULTS IN ENZYME-INDUCTION IN ANESTHETISTS** *ANESTHESIOLOGY*
Duvaldestin, P., Mazze, R. I., Nivoche, Y., Desmots, J. M.
1981; 54 (1): 57-60
 - **ENZYME-INDUCTION FOLLOWING SURGERY WITH HALOTHANE AND NEUROLEPT ANESTHESIA** *ANESTHESIA AND ANALGESIA*
Duvaldestin, P., Mazze, R. I., Nivoche, Y., Desmots, J. M.
1981; 60 (5): 319-323
 - **WASTE ANESTHETIC-GASES AND THE REGULATORY AGENCIES** *ANESTHESIOLOGY*
Mazze, R. I.
1980; 52 (3): 248-256
 - **RENAL-FUNCTION IN FISCHER 344 RATS WITH CHRONIC RENAL IMPAIRMENT AFTER ADMINISTRATION OF ENFLURANE AND GENTAMICIN** *ANESTHESIOLOGY*
Fish, K., SIEVENPIPER, T., Rice, S. A., Wharton, R. S., Mazze, R. I.
1980; 53 (6): 481-488
 - **DEVELOPMENTAL TOXICITY OF METHOXYFLURANE IN MICE** *ANESTHESIA AND ANALGESIA*
Wharton, R. S., SIEVENPIPER, T. S., Mazze, R. I.
1980; 59 (6): 421-425
 - **METABOLISM BY RAT HEPATIC MICROSOMES OF FLUORINATED ETHER ANESTHETICS FOLLOWING ISONIAZID ADMINISTRATION** *ANESTHESIOLOGY*
Rice, S. A., Sbordone, L., Mazze, R. I.
1980; 53 (6): 489-493
 - **EFFECT OF PHENYTOIN (DPH) TREATMENT ON METHOXYFLURANE METABOLISM IN RATS** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Caughey, G. H., Rice, S. A., Kosek, J. C., Mazze, R. I.
1979; 210 (2): 180-185
 - **HALOTHANE BIOTRANSFORMATION IN ANESTHETISTS** *ANESTHESIOLOGY*
Duvaldestin, P., Mazze, R. I., HAZEBROUCK, J., Nivoche, Y., Cohen, S. E., Desmots, J. M.
1979; 51 (1): 41-46
 - **METABOLISM OF SYNTHANE - COMPARISON WITH INVIVO AND INVITRO DEFLUORINATION OF OTHER HALOGENATED HYDROCARBON ANESTHETICS** *BRITISH JOURNAL OF ANAESTHESIA*
Mazze, R. I., BEPPU, W. J., Hitt, B. A.
1979; 51 (9): 839-844
 - **CAN THE EXTENT OF HALOTHANE DEBROMINATION BE PREDICTED PREOPERATIVELY** *ANESTHESIA AND ANALGESIA*
Duvaldestin, P., Mazze, R. I., Nivoche, Y., Desmots, J. M.
1979; 58 (6): 470-474
 - **ENFLURANE AND METHOXYFLURANE METABOLISM AT ANESTHETIC AND AT SUBANESTHETIC CONCENTRATIONS** *ANESTHESIA AND ANALGESIA*
White, A. E., Stevens, W. C., Eger, E. I., Mazze, R. I., Hitt, B. A.
1979; 58 (3): 221-224
 - **IS ENFLURANE DEFLUORINATION INDUCIBLE IN MAN** *ANESTHESIOLOGY*
-

- Dooley, J. R., Mazze, R. I., Rice, S. A., BOREL, J. D.
1979; 50 (3): 213-217
- **RENAL EFFECTS OF ENFLURANE ANESTHESIA IN FISCHER 344 RATS WITH PRE-EXISTING RENAL-INSUFFICIENCY** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
SIEVENPIPER, T. S., Rice, S. A., MCCLENDON, F., Kosek, J. C., Mazze, R. I.
1979; 211 (1): 36-41
 - **ELECTROENCEPHALOGRAPHIC ABNORMALITIES FOLLOWING HALOTHANE ANESTHESIA** *ANESTHESIA AND ANALGESIA*
Burchiel, K. J., STOCKARD, J. J., CALVERLEY, R. K., Smith, N. T., SCHOLL, M. L., Mazze, R. I.
1978; 57 (2): 244-251
 - **THERMOREGULATORY DEFECT IN RATS DURING ANESTHESIA** *ANESTHESIA AND ANALGESIA*
Hitt, B. A., Mazze, R. I., Cook, T. L., BEPPU, W. J., Kosek, J. C.
1977; 56 (1): 9-15
 - **CRITICAL CARE OF PATIENT WITH ACUTE RENAL-FAILURE** *ANESTHESIOLOGY*
Mazze, R. I.
1977; 47 (2): 138-148
 - **INORGANIC FLUORIDE NEPHROTOXICITY - PROLONGED ENFLURANE AND HALOTHANE ANESTHESIA IN VOLUNTEERS** *ANESTHESIOLOGY*
Mazze, R. I., CALVERLEY, R. K., Smith, N. T.
1977; 46 (4): 265-271
 - **EFFECT OF ENZYME-INDUCTION ON NEPHROTOXICITY OF HALOTHANE-RELATED COMPOUNDS** *ENVIRONMENTAL HEALTH PERSPECTIVES*
Hitt, B. A., Mazze, R. I.
1977; 21 (DEC): 179-183
 - **ENFLURANE METABOLISM IN RATS AND MAN** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Hitt, B. A., Mazze, R. I., BEPPU, W. J., Stevens, W. C., Eger, E. I.
1977; 203 (1): 193-202
 - **METABOLISM AND RENAL EFFECTS OF ENFLURANE IN MAN** *ANESTHESIOLOGY*
Cousins, M. J., GREENSTEIN, L. R., Hitt, B. A., Mazze, R. I.
1976; 44 (1): 44-53
 - **METHOXYFLURANE NEPHROPATHY** *ENVIRONMENTAL HEALTH PERSPECTIVES*
Mazze, R. I.
1976; 15 (JUN): 111-119
 - **COMPARISON OF RENAL EFFECTS AND METABOLISM OF SEVOFLURANE AND METHOXYFLURANE IN ENZYME-INDUCED RATS** *ANESTHESIA AND ANALGESIA*
Cook, T. L., BEPPU, W. J., Hitt, B. A., Kosek, J. C., Mazze, R. I.
1975; 54 (6): 829-835
 - **INFLUENCE OF AGE ON DISTRIBUTION, METABOLISM AND EXCRETION OF METHOXYFLURANE IN FISCHER 344 RATS - POSSIBLE RELATIONSHIP TO NEPHROTOXICITY** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Bell, L. E., Hitt, B. A., Mazze, R. I.
1975; 195 (1): 34-40
 - **METABOLISM INVITRO OF ENFLURANE, ISOFLURANE, AND METHOXYFLURANE** *ANESTHESIOLOGY*
GREENSTEIN, L. R., Hitt, B. A., Mazze, R. I.
1975; 42 (4): 420-424
 - **SPECIES, STRAIN, SEX AND INDIVIDUAL-DIFFERENCES IN ENFLURANE METABOLISM** *BRITISH JOURNAL OF ANAESTHESIA*
Hitt, B. A., Mazze, R. I., Stevens, W. C., White, A., Eger, E. I.
1975; 47 (11): 1157-1161

- **RENAL EFFECTS AND METABOLISM OF SEVOFLURANE IN FISCHER 344 RATS - INVIVO AND INVITRO COMPARISON WITH METHOXYFLURANE** *ANESTHESIOLOGY*
Cook, T. L., BEPPU, W. J., Hitt, B. A., Kosek, J. C., Mazze, R. I.
1975; 43 (1): 70-77
- **METABOLISM OF ISOFLURANE IN FISCHER 344 RATS AND MAN** *ANESTHESIOLOGY*
Hitt, B. A., Mazze, R. I., Cousins, M. J., EDMUNDS, H. N., Barr, G. A., Trudell, J. R.
1974; 40 (1): 62-67
- **METHOXYFLURANE NEPHROPATHY** *HUMAN PATHOLOGY*
Powell, H. C., GARRET, R. S., BERNSTEI, L., Mazze, R. I.
1974; 5 (3): 359-363
- **EFFECT OF ENZYME-INDUCTION WITH PHENOBARBITAL ON INVIVO AND INVITRO DEFLUORINATION OF ISOFLURANE AND METHOXYFLURANE** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Mazze, R. I., Hitt, B. A., Cousins, M. J.
1974; 190 (3): 523-529
- **EFFECTS OF ANESTHETICS ON CEREBRAL, RENAL, AND SPLANCHNIC CIRCULATIONS - RECENT DEVELOPMENTS** *ANESTHESIOLOGY*
Larson, C. P., Mazze, R. I., COOPERMA, L. H., WOLLMAN, H.
1974; 41 (2): 160-181
- **RENAL EFFECTS AND METABOLISM OF ISOFLURANE IN MAN** *ANESTHESIOLOGY*
Mazze, R. I., Cousins, M. J., Barr, G. A.
1974; 40 (6): 536-552
- **ETIOLOGY OF METHOXYFLURANE NEPHROTOXICITY** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Cousins, M. J., Mazze, R. I., Kosek, J. C., Hitt, B. A., LOVE, F. V.
1974; 190 (3): 530-541
- **COMPARISON OF RENAL EFFECTS AND METABOLISM OF ENFLURANE AND METHOXY-FLURANE IN FISCHER 344 RATS** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Barr, G. A., Cousins, M. J., Mazze, R. I., Hitt, B. A., Kosek, J. C.
1974; 188 (1): 257-264
- **NEPHROTOXICITY OF GENTAMICIN** *LABORATORY INVESTIGATION*
Kosek, J. C., Mazze, R. I., Cousins, M. J.
1974; 30 (1): 48-57
- **COMPARISON OF RENAL EFFECTS OF ISOFLURANE AND METHOXYFLURANE IN FISCHER-344-RATS** *ANESTHESIOLOGY*
Cousins, M. J., Mazze, R. I., Barr, G. A., Kosek, J. C.
1973; 38 (6): 557-563
- **RENAL TOXICITY OF ANESTHETICS - WITH SPECIFIC REFERENCE TO NEPHROTOXICITY OF METHOXYFLURANE** *CANADIAN ANAESTHETISTS SOCIETY JOURNAL*
Mazze, R. I., Cousins, M. J.
1973; 20 (1): 64-80
- **METHOXYFLURANE NEPHROTOXICITY - STUDY OF DOSE-RESPONSE IN MAN** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Cousins, M. J., Mazze, R. I.
1973; 225 (13): 1611-1616
- **COMBINED NEPHROTOXICITY OF GENTAMICIN AND METHOXYFLURANE ANESTHESIA IN MAN - CASE REPORT** *BRITISH JOURNAL OF ANAESTHESIA*
Mazze, R. I., Cousins, M. J.
1973; 45 (4): 394-398
- **STRAIN DIFFERENCES IN METABOLISM AND SUSCEPTIBILITY TO NEPHROTOXIC EFFECTS OF METHOXYFLURANE IN RATS** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Mazze, R. I., Cousins, M. J., Kosek, J. C.

1973; 184 (2): 481-488

● **ANIMAL MODEL FOR COMBINED METHOXYFLURANE AND GENTAMICIN NEPHROTOXICITY** *BRITISH JOURNAL OF ANAESTHESIA*

Barr, G. A., Mazze, R. I., Cousins, M. J., Kosek, J. C.

1973; 45 (4): 306-312

● **MORPHOLOGY AND PATHOGENESIS OF NEPHROTOXICITY FOLLOWING METHOXYFLURANE (PENTHRANE) ANESTHESIA - EXPERIMENTAL MODEL IN RATS** *LABORATORY INVESTIGATION*

Kosek, J. C., Mazze, R. I., Cousins, M. J.

1972; 27 (6): 575-580