#### DYNAMICS OF THE CRASH.

# CAR CRASHES INVOLVE THREE COLLISIONS:

#### IN THE FIRST COLLISION:

- (1) THE VEHICLE STRIKES AN OBJECT.
- (2) THE VEHICLE SLOWS DOWN AND BEGINS TO ABSORB SOME OF THE IMPACT.
- (3) THE VEHICLE IS DAMAGED.
- (4) WITHIN 1/10 OF A SECOND, THE VEHICLE, IN A HEAD ON CRASH, COMES TO A COMPLETE STOP.

#### IN THE SECOND COLLISION:

- (1) 1/50 OF A SECOND AFTER THE CAR HAS STOPPED THE SECOND OR HUMAN COLLISION BEGINS.
- (2) AN UNRESTRAINED DRIVER OR PASSENGER SLAMS INTO THE DASHBOARD, STEERING WHEEL OR WINDSHIELD.
- (3) WITHOUT PROPER PROTECTION DURING A CRASH, YOU CAN BE SERIOUSLY INJURED BY BEING THROWN INTO OTHER PEOPLE IN THE CAR OR INTO THE HARD SURFACES OF THE VEHICLE.
- (4) IF EJECTED FROM THE VEHICLE YOU WILL BE INJURED DURING EJECTION AND FURTHER INJURED OUTSIDE THE VEHICLE.

#### IN THE THIRD COLLISION:

- (1) THE BODY STOPS MOVING ORGAN COLLISION OCCURS.
- (2) HOLLOW ORGANS, SUCH AS THE LUNGS AND GREAT VESSELS MAY RUPTURE FROM COMPRESSION.

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- (3) SOLID ORGANS, SUCH AS THE BRAIN, LIVER OR SPLEEN MAY BE TORN FROM THEIR ATTACHMENTS, FRACTURED OR BRUISED FROM SUDDEN DECELERATION.
- (4) ORGAN COLLISION IS THE LEAST OBVIOUS, BUT THE MOST DEADLY.

WEIGHT AND ITS SPEED. THE FORCE OF THE CRASH INCREASES AS THE VEHICLE INCREASES ITS SPEED.

## DYNAMICS OF CRASHES INVOLVING CHILDREN:

DUE TO THEIR SHAPE AND SIZE, CHILDREN REACT DIFFERENTLY THAN
ADULTS IN A CRASH. BECAUSE OF THEIR HIGH CENTER OF GRAVITY, AND
DISPROPORTIONATELY HEAVIER HEADS, CHILDREN ARE EXTREMELY
SUSCEPTIBLE TO INJURY IN AUTOMOBILE CRASHES. OFTEN, THEY DO NOT
BENEFIT FROM THE ENERGY ABSORBING PARTS OF THE AUTOMOBILE INTERIOR
AND THEY BECOME FLYING MISSILES IN A CRASH. THIRTY-FOUR PERCENT OF
ALL INJURIES TO CHILDREN IN CAR CRASHES ARE INJURIES TO THE HEAD
AND FACE, CAUSING BRAIN DAMAGE, PERMANENT DISFIGUREMENT,
EPILEPSY, OR DEATH.

### CONSIDER:

♦ IN A 30 MPH COLLISION, A 10 POUND BABY NOT BUCKLED IN TO A

CAR SEAT WILL BE THROWN TOWARD THE DASH, WINDSHIELD OR OTHER

SURFACE WITH THE FORCE OF 300 POUNDS. IN THE SAME CRASH, A 100

POUND WOMEN, IF UNBELTED, BECOMES A 3,000 POUND FORCE, MORE

THAN ENOUGH TO CRUSH A CHILD IN HER ARMS AGAINST A DASHBOARD.

♦ BECAUSE THEIR HEADS ARE PROPORTIONATELY HEAVIER THAN THE

REST OF THEIR BODIES, CHILDREN TEND TO TRAVEL HEADFIRST INTO

THE VEHICLE'S HOSTILE INTERIOR.

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CHILDREN ARE MUCH MORE LIKELY TO BE INJURED OR EJECTED WHEN

TRAYELING UNSTRAINED IN THE CARGO SECTION OF A STATION WAGON

OR HATCHBACK VEHICLE. THERE DOESN'T NECESSARILY HAVE TO BE A

COLLISION WITH ANOTHER CAR. "PANIC BRAKING" FOR AN UNEXPECTED

ANIMAL, CHILD, ETC. ON THE STREET CAN SEND A YOUNG CHILD HURLING

TOWARD THE DASHBOARD WITH DEADLY FORCE.

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ADULT, BUT THIS DOES NOT LESSEN THE DANGER. THIS CONCEPT DOES

NOT APPLY TO THEIR HEADS OR VITAL ORGANS, THE AREAS OF

GREATEST VULNERABILITY TO A CHILD.