STHE NYKE/LDN, JULY 22ND 1978 NSG: PLA

TO: LONDON, WESTEDIT, WASHINGTON, BOSTON, NEWYORK

FROM: TIME MEDICINE

SLUG: TEST TUBE BABY CLOSE: 7/21 EOH:

THE FOLLOWING STORY SENIOR-EDITED BUT UNCHECKED,
IS SENT TO YOU FOR COMMENTS AND CORRECTIONS:

MEDICINE COVER (GOLDEN) 0XC01

THE FIRST TEST TUBE BABY

FUROR OVER CHILD CONCEIVED IN THE LABORATORY

THE DIRECTOR...CONTINUED WITH SOME ACCOUNT OF THE TECHNIQUE

FOR PRESERVING THE EXCISED OVARY ALIVE AND ACTIVELY

DEVELOPING. PASSED ON TO A CONSIDERATION OF OPTIMUM

TEMPERATURE, SALINITY, VISCOSITY...ACTUALLY SHOWED THEM HOW

THE EGGS... WERE INSPECTED FOR ABNORMALITIES, COUNTED AND

TRANSFERRED TO A POROUS RECEPTAGLE. HOW THIS RECEPTAGLE WAS

IMMERSED IN A WARM BOUILLION CONTAINING FREE-SWIMMING

SPERMATOZOA

ALDOUS HUXLEY, BRAVE NEW WORLD (1932).

TO MILLIONS OF PEOPLE IN BRITAIN AND ELSEWHERE AROUND THE WORLD LAST WEEK, IT SEEMED AS IF HUXLEY'S PROPHETIC VISION HAD BECOME REALITY. BANNER HEADLINES IN BRITAIN CALLED IT OUR MIRACLE AND BABY OF THE CENTURY. ON TELEVISION NEWSCASTS IN EUROPE AND THE U.S., STORIES ABOUT AN OBSCURE BRITISH COUPLE AND THE ARCANE SUBJECT OF EMBRYOLOGY SHOULDERED ASIDE ITEMS ABOUT THE MIDDLE EAST, INTERNATIONAL TRADE BALANCES, THE LATEST SPORTS EVENTS AND INFLATION. SOME COMMENTATORS HAILED THE PENDING EVENT AS A MIRACLE OF MODERN MEDICINE, COMPARABLE TO THE DECIPHERING OF THE GENETIC CODE OR THE FIRST HEART TRANSPLANT. THEOLOGIANS AND MORE THAN A FEW

PROMINENT SCIENTISTS SOUNDED WARNINGS ABOUT THE PROPOUNDLY DISTURBING MORAL, ETHICAL AND SOCIAL IMPLICATIONS, OTHERS, MADE WART BY THE RECENT CLONING HOAX, REMAINED UNCONVINCED THAT THE CHILD ABOUT TO BE BORN WAS INDEED THE WORLD S FIRST TEST-TUBE BABY.

THE FOCUS OF ALL THE FUROR WAS A SPRAWLING FOUR-STORY RED OF OLDHAM IN BRICK BUILDING IN THE OLD COTTO THE MORTHWEST REGION OF ENGLAND, THERE, IN A GUARDED ROOM OF THE MATERNATY SECTION OF OLDHAM DISTRICT SE GENERAL HOSPITAL, LESLEY BROWN, A THER OLD BRISTOL HOUSEWIFE LAY IN HER FINAL MONTH OF PREGNANCY, FOR NINE YEARS SHE AND HER HUSBAND JOHN, DO, A VAN DRIVER FOR BRITISH MATIONAL RAILWAYS, HAD FUTILELY TRIED TO HAVE A CHILD. NOW, FINALLY. THE BROWNS WERE ABOUT TO ACHIEVE THEIR GOAL IN A MOST WGUST THE TARGET DATE GIVEN SPECTACULAR MANNER. EARL LAST WEEK WAS AUG. A SHE IS EXPECTED TO GIVE BIRTH BY MATURAL MEANS TO A CHILD THAT HER DOCTORS SAY WAS CONCEIVED. NOT IN HER BODY, BUT IN VITRO AMID THE STERILE GLASS AND GADGETRY OF THE LABORATORY. LILY ASSISTED BLESSED IN ANTICIPATION OF THAT SCIENTIF MGITATIA DUSTREAL CENTER CPOPA

EVENT, THE NORMALLY QUIET

200,0003 LAST WEEK HAS IN A STATE OF FROM AS FAR OFF

AS JAPAN HUNDREDS OF REPORTES AND CAMERAMEN HAD SONVERGED

ON OLDHAN TO BE ON HAND FOR THE BERTH OF BARY EROUN. DESPISE

PLEAS FROM THE DOCTORS THAT THE MULACALOD WAS ENDANGERING

BOTH MOTHER AND CHILD, JOURNALISTS STEADFASTLY PROBLED THE

HOSPITAL'S PRECINCTS. THEY HOPED FOR ANY MORSEL OF

MEWS PERHAPS A SRIEF WORD WITH THE DOCTOR, PATRICS STEPTOE,

WHO CAME AND NENT DAILY IN MIS CHITE MERCEDES, DODGING IN

AND OUT OF THE HOSPITAL'S SIDE DOORS TO AVOID THE PRESS, OR

MAYBE A CHAT WITH THE EQUALLY ELUSIVE FATHER, OR BETTER YET

A GLIMPSE OF LESLEY BROWN BEHIND HER CAREFULLY CURTAINED

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DLRSOOD, OOG DEAL THAT ALLOWED ONLY REPORTERS FROM THE LONDON DAILY MAIL TO HAVE ACCESS THE BROWN FAMILY, THE DOCTORS AND OLDHAH HOSPITAL PERSONNEL. FRUSTRATION RAN HIGH ANDTRUMOR HAD IT THAT A BOMB THREAT AT THE HOSPITAL HAD BEEN CALLED BY A REPORTER WHO. AS A LAST RESORT, PLANNED TO INTERCEPT LESLEY BROWN AS SHE WAS BEING EVACUATED FROM THE BUILDING.

SNARLED A HOSPITAL GUARD AT A CLUSTER OF REPORTERS WHO HAD STATIONED THEMSELYES JUST UNDER LESLEY BROWN'S ROOM: "YOU BASTARDS, DON'T YOU CARE ABOUT THE BABY!"

IN FACT, JOURNALISTS AS WELL AS PUBLIC CARED ALL TOO
HUCH, AS THE OLDHAM EVENING CHRONICLE SAGELY COMMENTED;

"THE WORLD S PRESS SHOULD SCRAMBLE FOR INFORMATION, PEOPLE
WAXT TO KNOW, AND HAVE A RIGHT TO BE CURIOUS ABOUT SUCH
THINGS, "INDEED, LONG BEFORE ANYONE HEARD OF HUXLEY, ORVELL
OR EVEN MARY SHELLY'S FRANKENSTEIN MONSTER, PEOPLE HAVE BEEN
FASCINATED AND FRIGHTENED BY THE PROSPECTS OF CREATING LIFE
OUTSIDE THE WOMB, BIBLICAL REFERENCES TK, IN THE NIDDLE
AGES, THE RABBI OF PRAGUE WAS THOUGHT TO BE ENDOWED WITH
HYSTICAL POWERS THAT ENABLED HIM TO CREATE A GOLEM, OR
ARTIFICIAL MAN, AT WILL, PERHAPS THE MOST FAMOUS OF THESE
LEGENDS IS THAT OF FAUST AND HIS HOMUNCULUS, THE LITTLE MAN
THAT THE GREAT SCIENTIST CREATED IN A TEST TUBE.

YET FOR ALL MYTHIC NETAPHORS IN THE BRITISH PRESS VECOULD GET BABY FARMS, MASS PRODUCED KIDS, 1984 STX YEARS EARLY, EXCLAIMED DOWN DAILY EXPRESS THE BROWN CASE FELL FAR SHORT OF USHERING IN A BRAVE NEW WORLD, LIKE COUNTLESS OTHER WOMEN WITH FERTILITY PROBLEMS, LESLEY BROWN SUFFERED FROM AN UNDISCLOSED FALLOPIAN TUBE PROBLEM. IN THEIR ALMOST FAMATIC INSISTENCE ON SECRECY, HER DOCTORS DECLINED TO SAY WHETHER THE MUBES WERE TO SAY WHETHER THE MUBES WERE TO SAY WHATEVER THE TROUBLE, IT WAS APPARENTLY

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SERIOUS ENOUGH TO PREVENT HER FROM BECOMING PREGNANT. UNDER NORMAL CIRCUMSTANCES, PREGNANCY OCCURS WHEN AN OVUM, OR EGG CELL, RELEASED BY A WOMAN'S OVARY DURING OVULATION IS FERTILIZED IN THE PALLOPIAN TUBE BY A SINGLE SPERM THAT HAS TRAVELED UP FROM THE VAGINA. AFTER THE FERTILIZED EGG UNDERGOES A NUMBER OF CELL DIVISIONS, THE TINY CLUMP OF CELLS ENTERS THE UTERUS, WHERE IT BURROWS INTO THE WALL AND DEVELOPS UNTIL BIRTH.

TO BYPASS LESLEY BROWN'S FALLOPIANTUBES, STEPTOE, 65, A
HIGHLY RESPECTED GYNECOLOGIST AT OLDHAM AND A PIONEER IN
EXTRA UTERO FERTILIZATION, AND HIS COLLEAGUE, CAMBRIDGE
UNIVERSITY PHYSIOLOGIST ROBERT EDWARDS, 55, UNDERTOOK A
REMARKABLE PROCEDURE THEY HAVE BEEN EXPERIMENTING WITH POR
NEARLY A DECADE: THEY REMOVED A RIPE EGG FROM HRS. BROWN'S
WOMB, FERTILIZED IT EXTERNALLY IN A LABORATORY WITH
SPERM FROM HER HUSBAND, THEN INCUBATED THE OVUM THROUGH ITS
INITIAL STAGES OF CELL DIVISION, AND FINALLY IMPLANTED THE
CLEAVING EGG BACK INTO THE UTERUS, WHERE IT CONTINUED TO
GROW AND DEVELOP IN WHAT SEEMED TO BE AN ENTIRELY NORMAL
WAY.

EXPERIMENT WAS A LONG- SOUGHT MIRACLE! IN DOZENS OF PREVIOUS TRANSFERS OF EXTERNALLY FERTILIZED EGGS, THEIR EMBRYOS HAD ALWAYS DIED IN A MATTER OF DAYS OR WEEKS. TO MANY OTHER DOCTORS, INCLUDING RIVAL RESEARCHERS, THE FEAT WAS A STUNNING CLINICAL ACHIEVEMENT. IF THE BABY IS BORN NORMAL AND HEALTHY, THEY POINTED OUT, IT WILL GIVE NEW HOPE TO WOMEN WHO HAVE BEEN UNABLE TO CONCEIVE BECAUSE OF TUBAL DIFFICULTIES. THE NUMBER OF WOMEN WHO HIGHT BE SO AFFLICTED IS BY NO MEANS INSIGNIFICANT. IN THE U.S. ALONE, AS MANY AS 10PERGENT OF ALL WOMEN OF CHILD-BEARING AGE SOME 000,000 WOMEN ARE INFERTILE BECAUSE OF BLOCKED TUBES THAT CANNOT BE SURGICALLY REPAIRED.

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FOR MANY SCIENTISTS, THERE WERE EVEN MORE SWEEPING
RAMIFICATIONS. THEY NOTED THAT IN VITRO FERTILIZATION
TECHNIQUES MAY GIVE RESEARCHERS AN IMPORTANT NEW LABORATORY
TOOL FOR DEVISING WAYS OF COPING WITH GENETIC DISEASES,
TESTING NEW METHODS OF CONTRACEPTION AND, PERHAPS MOST
IMPORTANT OF ALL, STUDYING CLOSE UP ONE OF NATURE'S HOST
AWESOME AND STILL BAFFLING PROCESSES: THE FIRST STIRRINGS OF
LIFE. SAID ONE LEADING FERTILITY RESEARCHER, DR. CARL
PAUERSTEIN OF THE UNIVERSITY OF TEXAS, OF THE BRITISH WORK:
"IT HAS THE POTENTIAL FOR ADDING GREATLY TO THE KNOWLEDGE
OF THE REPRODUCTIVE BIOLOGY OF OUR SPECIES."

OTHER RESEARCHERS TOOK A FAR NORE SKEPTICAL OF GOING BEYOND MERE IN VITRO PERTILIZATION TO THE ACTUAL IMPLANTATION OF THE DEVELOPING EMBRYO IN THE UTERUS. "THE POTENTIAL FOR MISADVENTURE IS UNLIMITED, " SAID DR. JOHN MARSHALL, HEAD OF OBSTETRICS AND GYNECOLOGY AT LOS ANGELES'S HARBOR GENERAL HOSPITAL, WHO WONDERED HOW SURE ANYONE COULD BE THAT THE BROWN'S BABY WILL NOT BE DEFORMED. "WHAT IF WE GOT AN OTHERWISE PERFECTLY FORMED INDIVIDUAL THAT WAS A CYCLOPS? WHO IS RESPONSIBLE: THE PARENTS? THE DOCTOR? IS THE GOVERNMENT OBLIGATED TO TAKE CARE OF IT? " THERE WAS ALSO WIDESPREAD CRITICISM OF THE SECRECY IN WHICH THE WORK OF STEPTOE AND EDWARDS WAS CONDUCTED. THE UNIVERSITY OF PENNSYLVANIA'S DR. LUIGI MASTROLANNI, WHO HAS HIMSELF FERTILIZED EGGS N VITRO BUT NEVER ATTEMPTED TO REIMPLANT THEM, COMPLAINED THAT THE BRITISH RESEARCHERS HAD NOT PROVIDED ANY DETAILS ABOUT THE CONDITION OF MRS. BROWN'S FALLOPIAN TUBES. " IF THEY ARE COMPLETELY ABSENT, " SAID MASTROIANNI, " "YOU HUST ACCEPT THE FACT THAT THE EGG WAS FERTILIZED IN VITRO. BUT IF THEY ARE JUST DAMAGED, THERE'S ALWAYS THE POSSIBILITY THAT THE EGG MAY ACTUALLY HAVE BEEN

PERTILIZED IN VIVO CIN THE BODY? THAT THE TUBES HAV HAVE
FUNCTIONED AGAIN. ** SIR JOHN STALLWORTHY, PRESIDENT OF THE
BRITISH MEDICAL SOCIETY S BOARD OF SCIENCE, AGREED THAT SO
SENSATIONAL A CLAIM ** REQUIRES IRREFUTABLE PROOF. **

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IN AN EVEN BROADER AND DEEPER INDICTHENT, SOME THOUGHTPUL OBSERVERS SAW THE WORK AS STILL ANOTHER CHINOUS STEP TOWARD FURTHER CONTROL AND MANIPULATION OF BASIC LIFE PROCESSES ONE THAT IS COMPARABLE PERHAPS TO THERECENTLY ACQUIRED ABILITY OF MOLECULAR BIOLOGISTS TO REARRANGE AND RECOMBINE THE GENES OF DIFFERENT CREATURES AND EVEN TO CREATE NEW LIFE FORMS. THESE GRITICS ARE NOT REALLY WORRIED ABOUT THE IMMINENCE OF HUXLEY-STYLE BABY HATCHERIES THAT PRODUCE EVERYTHING FROM SUPERBRAINY " ALPHAS " TO DRONE-LIKE " EPSILONS " AFTER ALL, SAYS ONE RESEARCHER, "THESE TEST-TUBE BABIES ARE NOT GOING TO BE POPPING OUT LIKE PEANUTS. " WHAT CONCERNS THE CRITICS ARE THE FAR-RANGING SOCIAL, ETHICAL AND LEGAL REPERCUSSIONS. IN THE WORDS OF NOBEL LAUREATE JAMES VATSON. SUCH WORK CARRIES THE POTENTIAL FOR "ALL SORTS FOR BAD SCENARIOS, " " WHAT, FOR INSTANCE, COULD PREVENT A SCIENTIST FROM TAKING A FERTILIZED EGG FROM ONE WOMAN, WHO PERHAPS DID NOT WANT TO CARRY HER OWN BABY, AND IMPLANTING IT IN THE WONB OF A SURROGATE MOTHER. WHO THEN WOULD BE THE CHILD'S LEGAL MOTHER? OR, IN THE THE WORDS OF AN OLD MEDICAL JOKE, ""WHICH ONE GETS THE MOTHER "S DAY CARD?"

BY A STRIKING COINCIDENCE, THE FIRST LEGAL REVERBERATIONS
FROM TEST-TUBE FERTILIZATION WERE ALREADY BEING FELT LAST
WEEK ACROSS THE ATLANTIC. IN U.S. DISTRICT COURT IN NEW
YORK, A JURY OF FOUR WOMEN AND TWO MEN WAS HEARING THE
SECOND WEEK OF TESTIMONY IN AN EXTRAORDINARY DLRS1.5 MILLION
DAMAGE SUIT AGAINST MANHATTAN®S COLUMBIA-PRESBYTERIAN
MEDICAL CENTER AND ITS CHIEF OF OBSTETRICS, DR. RAYHOND
VANDE WIELE, THE ACTION WAS BROUGHT BY A FORT LAUDERDALE,

FLA: BENTIST, DR. JOHN DEL ZIO, 59, AND HIS SECOND VIFE,
DORIS, 34. IN 1972, MRS. DEL ZIO, WHO HAD APPARENTLY HAD
BEEN UNABLE TO CONCEIVE BECAUSE OF TUBAL PROBLEMS, AGREED TO
LET A FORMER COLUMBIA RESEARCHER, DR. LANDRUM SHETTLES,
REIHPLANT IN HER WOMB AN EGG FERTILIZED EXTERNALLY BY HER
HUSBAND'S SPERM. BUT UPON LEARNING OF THE EXPERIMENT IN HIS
DEPARTMENT, VANDE WIELE PROMPTLY KILLED THE EGG, CONTENDING,
AMONG OTHER THINGS, THAT THE PROCEDURE WAS RISKY, THAT
SHETTLES LACKED THE SKILLS TO UNDERTAKE IT AND THAT IT HAD
NOT BEEN APPROVED BY THE HOSPITAL'S ETHICS COMMITTEE.

IN EHOTIONAL, SOBBING TESTIHONY, MRS. DEL ZIO CHARGED THAT THE VANDE WIELE'S ACTION ROBBED HER OF A CHANGE TO HAVE A CHILD BY HER CURRENT HUSBAND SHE HAD TWO CHILDREN IN A PREVIOUS MARRIAGEBEFORE THE TUBAL PROBLEMS DEVELOPED AND DAMAGED HER BOTH PHYSICALLY AND PSYCHOLOGICALLY, UPSET HER SEX LIFE AND JEOPARDIZED HER MARRIAGE. IN REBUTTAL, EXPERT VITNESSES FOR THE DEFENSE HAVE QUESTIONED WHETHER THE FLAMBOYANT SHETTLES, WHO HAS SINCE BEEN DISNISSED FROM THE HOSPITAL, EVER MANAGED TO FERTILIZE MRS. DEL ZIO'S EGG OR WHETHER HIS OTHER CLAIMS OF IN VITRO FERTILIZATION ARE VALID, COMPARING SHETTLES' WORK TO THE BRITISH CASE, THE DEFENSE LAWYERS SCORNFULLY SAID THAT IT WAS AS DIFFERENT FROM THE ACHIEVEMENT OF STEPTOE AND EDWARDS AS "A MODEL T FORD IS FROM A PORSCHE. " HOWEVER THAT MAY BE, THE COURTROOM HISTRIONICS TENDED TO OBSCURE THE REAL QUESTIONS IN THE CASE: WAS VANDE WEILE'S ACTION WHICH HE FREELY ADMITS MEDICALLY AND LEGALLY JUSTIFIABLE AND DID MRS. DEL ZIO'S EMOTIONAL AND PHYSICAL PROBLEMS STEM FROM ANY TRAUMA SHE MIGHT HAVE SUFFERED FROM LEARNING OF THE DESTRUCTION OF HER PURPORTEDLY FERTILIZED OVA. SHOULD THE JURY FIND FORMES. DEL ZIO, DOCTORS WILL HAVEEINVOLVED IN SUCH EXPERIMENTS WILL

HAVE TO THINK TWICE ABOUT THEIR LEGAL LIABILITIES BEFORE BECING INVOLVED IN SUCH EXPERIMENTS.

PERHAPS BECAUSE OF PAST DIFFICULTIES WITH THEIR OWN RESEARCH, AS WELL AS THE CONTROVERSIES THAT IT HAS SPAWNED, STEPTOE AND EDWARDS HAD REMAINED MUM ABOUT THEIR SUCCESSFUL IMPLANTING AND THE IMPENDING BIRTH. EVEN THOUGH FERTILITY EXPERTS ROUND THE GLOBE WERE AWARE OF THEIR GOALS, NO AMMOUNCEMENT WAS FORTHCOMING FROM THE BRITISH RESEARCHERS UNTIL HID- JULY, WHEN REPORTERS CLOSING IN ON THE STORY FORCED THEM TO ACKNOWLEDGE THAT THE BIRTH OF A TEST TUBE BABY WAS IMMINENT, EVEN SO, STEPTOE AND EDWARDS WERE RELUCTANT TO GIVE ANY DETAILS. THEY EVEN WITHHELD THEIR PATIENT'S NAME FOR PEAR, THEY CONTENDED, THAT THE HOTHER MIGHT NOT BE ABLE TO WITHSTAND THE PRESSURE OF ALL THE PUBLIC PRYING. YET, AS ENTERPRISING JOURNALISTS PURSUED THE STORY, INFORMATION SLOWLY DRIBBLED OUT, SOME OF IT, TO BE SURE, CAME DIRECTLY FROM THE FAMILY AND DOCTORS THROUGH THE DAILY MAIL, UNDER THE SYNDICATION DEAL, BUT OTHER FACTS WERE UNEARTHED BY REPORTERS IN OLDHAM WHO USED 20-POUND NOTES TO LOOSEN THE LIPS OF ANYONE EVEN REMOTELY CONNECTED WITH THE CASE

IN THESE ACCOUNTS, MRS. BROWN IS DESCRIBED AS A PRETTY.

WELL-BUILT WOMAN OF 5 FT. 5 IN. WHO WEARS HER BROWN HAIR IN

A PAGE-BOY CUT. IN HER TURQUOISE-BLUE HOSPITAL ROOM, SHE

OPTEN LOUNGES IN AN EASY CHAIR, WEARING A BROWN-AND-WHITE,

BELL- SLEEVED HOUSECOAT. SHE SPENDS MUCH OF HER TIME MAKING

TELEPHONE CALLS, DOING PUZZLES, KNITTING, NIBBLING ON MINTS

AND EATING ORDINARY HOSPITAL FOOD (A TYPICAL LUNCH: STEAK)

KIDNEY PIE AND MASHED POTATOES FOLLOWED BY FRUIT TARY.

OCCASIONALLY SHE HAS BECOME WEEPY AND DEPRESSED AND WAS

ERIEFLY WORRIED, UNTIL REASSURED BY OTHER EXPECTANT MOTHERS.

ABOUT THE SEEMINGLY SMALL SIZE OF THE BABY IN RELATION TO

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212 556 4034 THE WEEKS OF PREGNANCY, STEPTOE APPARENTLY TRIED TO GET HER
TO STOP SMOKING, BUT SHE STILL SNEAKS AN OCCASIONAL
CIGARETTE. PRESUMABLY, SHE KNOWS OF ALL THE CONCERN ABOUT
HER AND HER BABY BECAUSE SHE HAS A TELLY AND RADIO IN HER
ROOM. FROM HER WINDOW, SHE CAN SEE THE GARDEN OF THE
HOSPITAL'S CHILDREN'S UNIT WITH ITS GAILY COLORED SWINGS,
WHIRLING MERRY-GO-ROUNDS AND PLAYFUL YOUNGSTERS. ASKED HOW
MRS. BROWN WAS, A NURSE REPORTED THAT "SHE JUST FEELS LIKE
ANY OTHER MOTHER-TO-BE: TIRED, FED UP AND FAT."

BEFORE THE BROWNS BECAME OBJECTS OF INTERNATIONAL INTEREST, LESLEY AND HER HUSBAND LIVED QUIETLY IN A TOURQUOISE- TRIMHED, WHITE ROW HOUSE IN EASTON, A SUBURG OF BRISTOL, ABOUT OO HILES FROM OLDHAM. "EVER SUCH A NICE COUPLE, 10 SAY NEIGHBORS, JOHN BROWN APPARENTLY LIKES FEW THINGS BETTER THAN TO TINKER WITH HIS AUTOHOBILE AND, EVEN BEFORE THE CURRENT FUROR, KEPT LARGELY TO HIMSELF. SAYS A FRIEND: 9 9HE IS A VERY POLITE BLOKE, I DON T THINK HE SOCIALIZES WITH A LOT OF PEOPLE. " THE BROWNS, WHO LIVE TOGETHER IN THE HOUSE WITH JOHN'S (16-YEAR-OLD DAUGHTER BY A PREVIOUS MARRIAGE, ARE HARDLY RECLUSES. BEFORE LESLEY BROWN WAS SEQUESTERED IN THE HOSPITAL FOR ROUND-THE-CLOCK MONITORING. SHE TALKED FREELY WITH NEIGHBORS ABOUT HER PREGNANCY. JOHN, TOO, SEEMED DELIGHTED WITH THE TURN OF EVENTS, BUT, RECALLS ONE SURPRISED NEIGHBOR, " ! NEVER KNEW THERE WAS ANYTHING UNUSUAL. 00

HANY SCIENTISTS SHARED THAT SURPRISE, FOR YEARS, THEY
HAVE TALKED ABOUT FERTILIZING THE HUMAN EGG IN A TEST TUBE
AND IMPLANTING IT IN THE UTERUS, BUT WITH EVERY CLAIM OF
SUCCESS HAS COME THE INEVITABLE COUNTERCURRENT OF DOUBT.
INDEED, AS EARLY AS THE 1940S, THE EMINENT BOSTON
GYNECOLOGIST, DR. JOHN ROCK ONE OF THE PIONEERS IN THE
DEVELOPMENT OF THE BIRTH CONTROL PILL REPORTED THAT HE AND

VITRO, BUT OTHER SCIENTISTS BELIEVE THAT THE FEW CELL
DIVISIONS OBSERVED BY ROCK WERE NOTHING HORE THAN
"PARTHENOGENIC CLEAVAGE" CDIVISION OF THE UNFERTILIZED
EGG), PROBABLY INDUCED BY THE ARTIFICIAL STIMULATION OF THE
OVUM DURING THE ATTEMPTED FERTILIZATION, SCIENTISTS WERE
SINILARLY SKEPTICAL OF CLAIMS BY SHETTLES IN THE 1950S THAT
HE HAD BROUGHT AN EXTERNALLY FERTILIZED HUMAN EGG INTO THE
SIXTH DAY OF CELL DIVISION AND BY A CONTROVERSIAL ITALIAN
SCIENTIST, DANIELE PETRUCCI, WHO A FEW YEARS LATER ANNOUNCED
THAT HE HAD KEPT ALIVE AN EMBRYO IN THE TEST-TUBE FOR 29
DAYS, THE EMBRYO WAS DESTROYED, PETRUCCI SAID, ONLY AFTER
THE VATICAN CONDEMNED HIS WORK.

NOT UNTIL THE MID-1960S DID RESEARCHERS FINALLY ACHIEVE
THE SKILLS TO PRODUCE ON IN VITRO FERTILIZATION OF MAMMALIAN
EGGS ON A REGULAR BASIS. NOTABLE AMONG THEM WAS M. C. CHANG
OF THE WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY IN
SHREWSBURY, MASS. AND WHO, WHO SOLVED THE PROBLEM OF IN
VITRO CAPITATION OF THE SPERM, A PROCESS THAT ENABLED SPERM
TO PENETRATE THE EGG IN THE LABORATORY. BUT MOST OF THIS
WORK INVOLVED CREATURES NO HIGHER THAN RABBITS, MAMSTERS,
RATS AND MIGE.

ACCOMPLISHED THE SAME PEAT WITH HUMAN EGGS. HIS REPORT
CREATED A WORLDWIDE SENSATION, AND DREW THE FIRE OF MANY
CHURCH AUTHORITIES. TRYING TO ALLAY FEARS THAT HE WAS
ACTUALLY TRYING TO RAISE BABIES OUTSIDE THE WOMB, STEPTOE
INSISTED THAT HIS TRUE GOAL WAS QUITE DIFFERENT. SAID
HE: **ALL THAT I AM INTERESTED IN IS HOW TO HELP WOMEN WHO
ARE DENIED A BABY BECAUSE THEIR TUBES ARE INCAPABLE OF DOING
THEIR SHALL PART. ** THE SCIENTIFIC JOURNAL NATURE PROMPTLY
CAME TO HIS DEFENSE. **THESE ARE NOT PERVERTED HEN IN WHITE

COATS DOING NASTY EXPERIMENTS ON HUMAN BEINGS, BUT
REASONABLE SCIENTISTS CARRYING OUT PERFECTLY JUSTIFIABLE
RESEARCH. 0 0

APPEARING BEFORE A BRITISH MEDICAL MEETING IN 1973. ANOTHER ENGLISH SCIENTIST, DR. DOUGLAS BEVIS, ALMOST CASUALLY DROPPED AN EVEN BIGGER BOHBSHELL. HE CLAIMED NOT ONLY THAT HE HAD HANAGED TO FERTILIZE HUMAN EGGS IN THE TEST TUBE, BUT THAT HE HAD SUCCESSFULLY INPLANTED OVA IN AT LEAST THREE WOHEN WHO SUBSEQUENTLY GAVE BIRTH. WHEN HE PROVED UNWILLING OR UNABLE TO DOCUMENT HIS CLAIMS, BEVIS WAS ROUNDLY DENOUNCED. SHATTERED BY THE CRITICISM, HE SOON VOWED THAT HE WAS GIVING UP ALL SUCH RESEARCH. EVEN NOW, NO ONE REALLY KNOWS WHETHER BEYIS WAS A FRAUD OR A VICTIM OF THE FURIOUS SCIENTIFIC COMPETITION BETWEEN RIVAL FERTILITY RESEARCHERS. IN ANY CASE, THE BEVIS CASE SMARPLY INCREASED THE PUBLIC CONCERN AND BROUGHT VOCIFEROUS RIGHT-TO-LIFELIFE ADVOCATES INTO THE FRAY, THEY EQUATED THE FERTILIZATION EXPERIMENTS AND THE DESTRUCTION OF ACTIVE OVA OFTEN INVOLVED IN THEH WITH OUTRIGHT ABORTIONS OF FAR MORE DEVELOPED FETUSES.

THE CLAMOR HAD ITS EFFECT. RESEARCHERS LIKE STEPTOE AND EDWARDS, IN AN EFFORT TO STAY OUT OF THE LIMELIGHT, MADE FEVER AND FEVER REPORTS ON THE PROGRESS OF THEIR WORK. IN THE U.S., ALHOST ALL RESEARCH WITH HUMAN EGGS CAME TO AN ABRUPT HALT IN 1975 WHEN, UNDER A FEDERAL ORDER, THE NATIONAL INSTITUTES OF HEALTH WAS BARRED FROM FUNDING ANY HUMAN FERTILIZATION EXPERIMENTS UNLESS THEY WERE PIRST APPROVED BY A NATIONAL ETHICS BOARD TO BE APPOINTED BY THE HEALTH, EDUCATION AND WELFARE SECRETARY. PERHAPS BECAUSE IT INVOLVED SUCH A TOUCHY SUBJECT, HEW SECRETARY JOSEPH CALIFANO DID NOT GET AROUND TO FORMING THE PANEL UNTIL THIS YEAR. ONE OF ITS FIRST ORDERS OF BUSINESS: TO WEIGH THE

LONG-PENDING APPLICATION FOR FUNDS FROM A VANDERBILT UNIVERSITY FERTILITY RESEARCHER, PIERRE SOUPART, HIS OBJECTIVE: TO RESUME TESTS, SUSPENDED IN 1975, THAT ARE DESIGNED TO SHOW IF THERE IS ANY INCREASED RISK OF CHROKOSOMAL ABNORMALTIES WHEN HUMAN EGGS ARE PERTILIZED IN THE TEST-TUBE RATHER THAN IN THE BODY. COMMENTING ON THE DELAYS FORCED UPON AMERICAN RESEARCHERS BY WHAT IS, IN EFFECT, ANUNOFFICIAL FEDERAL MORATORIUM, U.C.L.A.

CBSTETRICIAN JAROSLAV MARKIK BITTERLY NOTES THAT 'IF ALL THE PULLS AND PRESSURES HAD NOT BEEN APPLIED TO RESEARCHERS IN THE U.S., THERE MIGHT BE AN AMERICAN WOMAN NOW ABOUT TO DELIVER CA TEST-TUBE BABY >. 0.0

PERHAPS SO, BUT THE SKILLS AND KNOWHOW OF THE STEPTOE-EDWARDS TEAM ARE ALMOST UNIVERSALLY ACCLAIMED. EVEN IF ITS INCLINATION TOWARD SECRECY IS NOT. THE SILVER- HAIRED AND ELEGANT STEPTOE IS AN ACCOMPLISHED GYNEGOLOGIST AND A PIONEER IN THE USE OF LAPAROSCOPY A TECHNIQUE FOR EXPLORING THE INTERIOR OF THE REPRODUCTIVE TRACT WITH A NEEDLE-THIN TELESCOPE EQUIPPED WITH A PIBER OPTICS LIGHT. HE IS AN INPECCABLE DRESSER, ENJOYS CRICKET AND IS AN ACCOMPLISHED ORGANIST WHO CHORAL PRELUDES AND BACH AT A LOCAL CHURCH. IN THE WORDS OF A COLLEAGUE, HE IS ALSO "A MAN OF CHARACTER AND DETERMINATION WHO IF SOMEONE IS SPEAKING NONSENSE IS PERFECTLY WILLING TO SAY SO. " HIS PARTNER EDWARDS, WHO IS THE FATHER OF FIVE DAUGHTERS, IS NO LESS ACCOMPLISHED IN HIS OWN FIELD THE PHYSIOLOGY OF FERTILIZATION AND JUST AS DEDIGATED BRITISH NEWSPAPERS REPORT THAT IN TRANSPORTING FERTILIZED EGGS FROM HIS LAB AT CAMBRIDGE TO OLDHAM, HE IMPLANTS THEM IN A RABBIT TO KEEP THEM AT THE RIGHT TEMPERATURE, PLACES THE RABBIT IN A ON THE PASSENGER SEAT OF HIS CAR AND DRIVES TO THE HOSPITAL. AT CAMBRIDGE, HE OFTEN RETURNS TO THE PHYSIOLOGY DEPARTMENT

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AT NIGHT, SCALES A VALL, AND SLIPS INTO HIS LABORATORY TO SEE IF FERTILIZED EGGS ARE STILL ALIVE.

THOSE QUALITIES ARE SURELY AS ESSENTIAL IN THEIR DIFFICULT FIELD AS ARE FLASKS, HORMONES AND MICROSCOPES. THOUGH MAN HAS WONDERED ABOUT HUMAN REPRODUCTION SINCE THE DAWN OF HISTORY, IT REMAINS, IN HANY RESPECTS, AS MYSTERIOUS SOME WOULD EVEN SAY AS NYSTICAL AS EVER. AT BIRTH, THE INFANT HUMAN FEMALE IS ENDOWED WITH AS HANY AS TWO MILLION IMPATURE EGGS, MANY TIMES MORE THAN SHE WILL EVER NEED DURING HER 30 OR SO CHILD-BEARING YEARS, STARTING AT PUBERTY, THESE EGGS ARE RELEASED, USUALLY ONE AT TIME, ABOUT NIDWAY IN THE MENSTRUAL CYCLE. THE PROCESS IS A MARVEL TO BEHOLD, STIMULATED BY HORMONES THE BODY 'S CHEMICAL SIGNALING SYSTEM THE RIPE EGG BREAKS OUT OF ITS BAGLIKE ENCASEMENT, OR FOLLICLE, IN THE OVARY, IN ANY MONTH, EITHER OF THE FEMALE'S TWO OVARIES HAY CONTRIBUTE AN OVUM, THEN THE EGG ENTERS THE NEARBY FALLOPIAN TUBE, OR OVIDUCT. IF COITUS HAS TAKEN PLACE, THE TRAVELING EGG WILL SHORTLY ENCOUNTER SOHE OF THE LONGTAILED SPERM THAT HAVE NAMAGED, LIKE SALHON BATTLING UPSTREAM, TO FIGHT THEIR WAY INTO THIS PASSAGEWAY. IN A DRAMATIC HEADLONG PLUNGE, THE SINGLE MOST AGGRESSIVE AND ABLE OF THESESPERM WILL PENETRATE THE WAITING OVUH. CONTRIBUTING ITS 23 CHROHOSOMES TO THE EGG 'S 23. THAT PRODUCES THE FULL COMPLEMENT OF 46 CHROMOSOMES, WHICH CONTAIN ALL THE GENETIC INSTRUCTIONS NECESSARY TO PRODUCE A COMPLETE HUMAN BEING.

PROPELLED BY CURRENTS AND CONTRACTIONS, THE EGG WILL NOW DESCEND, DIVIDING AS IT HOVES DOWN THE OVIDUCT. FINALLY, AFTER SEVERAL DAYS, IT WILL HAVE BECOME A HOLLOW, BALL-SHAPED CLUSTER OF ABOUT 100 CELLS, CALLED A BLASTCCYST. BY NOW, IT WILL HAVE REACHED THE UTERUS. THERE THE CELLS IMBED THEMSELVES IN THE UTERINE WALL, WHERE THEY BEGIN TO

START THE PROCESS OF DIFFERENTIATION: THE RAPID
TRANSFORMATION OF UNIFORM CELLS INTO TISSUE THAT SOON
BECOMES RECOGNIZABLE AS HEART, BRAIN, MUSCLE, KIDNEYS AND
ALL THE OTHER COMPONENTS OF A LIVING, SELF-SUFFICIENT BEING.

YET THE EGG'S JOURNEY IS PRECARIOUS. UNLESS THE PROPER HORMONES ARE RELEASED, SIGNALING THE BODY TO SET THE STAGE FOR OVULATION AND FERTILIZATION, THE INTRICATE CHAIN OF EVENTS WILL NOT BEGIN. THE EGG WILL NOT BURST FROM THE OVARY, THE VAGINAL MUGUS WILL REMAIN MUCH TOO STICKY AND ACIDIC FOR THE SURVIVAL OF MANY SPERM, AND THE BLOOD VESSELS OF THEUTERUS WILL NOT SWELL UP IN PREPARATION FOR RECEIVING THE FERTILIZED EGG. INDEED, HORMONAL DISORDERS AT ANY POINT IN THE SEQUENCE MAKE IT SO FRAUGHT WITH PERIL FOR EGGS AND SPERM AT LEAST 10PERCENT OF ALL PREGNANCIES END EVEN BEFORE THE INPLANTATION. AS DR. ALBERT DECKER OF THE NEW YORK FERTILITY RESEARCH FOUNDATION PUTS IT: "PREGNANCY IS NOT SIMPLE. WOMEN DO NOT GET PREGNANT AT THE DROP OF A HAT."

IN LESLEY BROWN'S CASE, THE DIFFICULTIES WERE NOT HORHONAL BUT TUBULAR. IN RECENT YEARS, SURGEONS HAVE HANAGED MINOR MIRACLES IN REPAIRING THE OVIDUCTS WITH PRECISE MICROSURGERY. BUT FOR MRS. BROWN THAT DID NOT APPEAR POSSIBLE. THE DOOR SEEMED TO BE TIGHTLY SHUT AGAINST ANY LIKELIHOOD OF PREGNANCY UNTIL SHE WAS REFERRED TO STEPTOE, WHO WITH EDWARDS HAD MADE MORE ATTEMPTS TO GET AROUND SUCH BLOCKAGES BY IN VITRO FERTILIZATION AND IMPLANTING TECHNIQUES THAN ANY OTHER RESEARCHER.

YET DESPITE THE LONG EXPERIENCE OF THE BRITISH TEAM, THE PROCEDURE HAD NEVER RESULTED IN A LIVE BIRTH. TO BRING IT OFF SUCCESSFULLY REQUIRES SCIENTIFIC INGENUITY, SURGICAL DEXTERITY AND, SOME MIGHT SAY, A LOT OF PLAIN LUCK, FOR ONE THING, THE DOCTOR MUST REMOVE THE EGG AT THE PRECISE TIME IN

THE MONTHLY CYCLE WHEN IT HAS REACHED HATURITY. TO ENSURE
THE SUCCESS OF THAT GRUCIAL INITIAL STEP, STEPTOE AND
EDWARDS FOLLOW A STANDARD PROCEDURE OF FERTILITY
RESEARCHERS: THEY ADMINISTER FERTILITY HORMONES, LIKE THOSE
THAT HAVE BEEN RESPONSIBLE FOR THE RASH OF MULTIPLE BIRTHS
IN RECENT YEARS. THAT ENCOURAGES THE RIPENING OF SEVERAL
EGGS AT ONE TIME. TO GET AT THE EGGS, STEPTOE DISPLAYS ALL
HIS CONSIDERABLE SKILLS AT LAPORASCOPY, OR INSURABLE
SURGERY. UNDER
ESTHESIA, AN INCISION IS HADE IN THE
ABDOMINGINERT GASES ARE PUMPED INTO THE WOMAN'S ABDOMINAL
CAVITY TO EXPAND IT AND SEPARATE THE ORGANS, AND THE
LAPAROSCOPE, OR VIEWING TELESCOPE, IS INSERTED TO SEEK OUT
AN APPROPRIATE EGG. CIRONICALLY, EVEN THOUGH MODERN
LAPAROSCOPY DEPENDS ON U.S. INVENTED FIBER-OPTICS, THE

TECHNIQUE WAS SLOW TO COME INTO USE IN THE U.S. BECAUSE

DOCTORS FEARED IT COULD BE THE BASIS OF MALPRACTICE SUITS.)

UNLESS THE LIBERATED EGGS OR, FOR THAT MATTER, THE HUSBAND S SPERM ARE KEPT AT THE RIGHT TEMPERATURE AND PRESSURE. AT THE PROPER LEVEL OF ACIDITY, FREE OF CONTAMINATION AND IN AN APPROPRIATE CULTURE HEDIUM, THEY WILL NOT SURVIVE LONG ENOUGH TO COMPLETE THE EXPERIMENT. EXPLAINS THE UNIVERSITY OF PENNSYLVANIA'S BENJAHIN G. BRACKETT, WHO HAS PERFORMED MANY SIMILAR TESTS! "TYOU DON'T WANT THE EGGS TO SUSPECT THEY ARE OUT OF THE BODY. " EQUALLY IMPORTANT, THE SPERM CUHICH ARE OSTAINED BY WHAT OR BY MASTURBATION INTO A FLASK) MUST BE PRIMED FOR FERTILIZATION OR, IN THE TECHNICAL TERM, CAPACITATED, THIS HEARS THAT THECHENICAL INHIBITOR PREVENTING THE SPERM RON PENETRATING THE EGG MUST BE REMOVED FROM THE SURFACE OF THE SPERN. HOW THIS TRICK IS ACCOMPLISHED IN THE BODY REMAINS A PUZZLE. SOME SCIENTISTS THINK THAT THE WOMAN'S SECRETIONS DO THE JOB. BUT IN THE LAS SCIENTISTS USUALLY ARE ABLE TO PRIME THE

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SPERM SIMPLY BY GENTLY BATHING THEM IN A SALT SOLUTION.

THERE IS ALSO THE CRITICAL MATTER OF TIMING: THE EGGS ARE
READY FOR PERTILIZATION WITHIN THREE OR FOUR HOURS AFTER

THEIR REMOVAL FROM THE WOMAN'S BODY. THEY REMAIN VIABLE FOR

ONLY EIGHT HOURS. SPERM HAVE A LIFETIME OF ONLY ABOUT 48

HOURS. SO EGG AND SPERM MUST BE QUICKLY BROUGHT TOGETHER.

EVEN APTER PERTILIZATION, THE SCIENTISTS HAVE NO
ASSURANCE THAT THE EGG WILL DIVIDE. AGAIN THE CULTURE HEDIUM
HUST BE CAREFULLY CONTROLLED. INDEED, IT HAS BEEN FOUND THAT
HIGHEST RATE OF SUCCESS USUALLY OCCURS WHEN THE CONTENT OF
THE SOLUTION IS CONTINUALLY ALTERED AS THE CELLS KEEP
DOUBLING. FINALLY, WHEN THE EGG HAS REACHED THE BLASTOCYST
STAGE, IT IS READY FOR IMPLANTING. THIS IS DONE BY PICKING
UP THE EGG WHICH IS STILL NO BIGGER THAN THE DOT AT THE END
OF THIS SENTENCE WITH A TINY HOLLOW TUBE, OR PIPETTE,
INSERTING IT THROUGH THE CERVIX AND INTO THE UTERUS WHERE,
IF ALL GOES WELL, IT WILL IMPLANT ITSELF IN THE UTERINE
WALL, SEVERAL WEEKS MUST THEN PASS BEFORE THE DOCTORS KNOW
IF THEIR PATIENT IS INDEED PREGNANT.

SINCE THE BEGINNING OF THEIR PARTNERSHIP IN 19XX, STEPTOE
AND EDWARDS ARE BELIEVED TO HAVE ATTEMPTED IN VITRO

FERTILIZATION AND IMPLANTATION IN

OF SUCCESS IN FERTILIZING THE EGGS IS ESTIMATED TO BE ABOUT

30PERCENT. SUCCESSFUL IMPLANTATION IS EVEN MORE DIPPICULT.

IN 1976, STEPTOE AND EDWARDS REPORTED THAT A FETUS HAD

SURVIVED THROUGH THE WEEK OF PREGNANCY. WHEN SOUPART

VISITED THEM LAST OCTOBER JUST BEFORE THE BROWN CASE,

STEPTOE AND EDWARDS TOLD HIM THAT OF THE 60 IMPLANTS THAT

TOOK, ONLY THREE SHOWED ANY SIGNS OF LONGEVITY. WHY THE

DIFFICULTY? SOUPART SAYS THAT THERE ARE AT LEAST THREE

REASONS FOR FAILURE: 1) DIFFICULTIES IN HANDLING THE TINY

EGG. 2) UNDETECTED CHROMOSONAL ABNORMALITIES THAT DOOM THE

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EGG EEFORE IT HAS A CHANCE TO INPLANT ITSELF. AND 30 INTERFERENCE IN THE ACCEPTANCE OF THE EGG BY THE VERY HORNONES THAT WERE USED TO ENCOURAGE OVULATION.

ACCORDING TO THE THE BRITISH NEWSPAPERS, ALL THESE CRITICAL STEPS IN THE BROWN CASE THE REHOVAL OF THE EGGS. FERTILIZATION IN THE LABORATORY AND THE REIMPLANTATION TOOK PLACE IN LATE OCTOBER OR EARLY NOVEMBER. THE SITE OF THE WORK WAS PIERTY A SHALL TURN-OF-THE-CENTURY INSTITUTION CALLED DR. KERSHAN'S COTTAGE HOSPITAL, SET ANID GREEN FIELDS ABOUT A MILE FROM GLDHAM AS (KERSHAW'S) CONSULTING GYNECOLOGIST, STEPTOE HAS DONE HUCH OF HIS FERTILIZATION WORK THERE, HE USES FOUR ROOMS, PLUS A SMALL ADJOINING OPERATING THEATER THAT IN KEEPING WITH HIS PENCHANT FOR SECRECY ARE ALL PROTECTED BY LOCKS, SLIDING DOORS AND A RED WARNING LIGHT. STEPTOE, WHO SOME CRITICS IRONICALLY NOTE IS ABLE TO PURSUE HIS EXPENSIVE FERTILITY WORK IN PART BECAUSE OF HIS EARNINGS FROM ABORTIONS, SOON HOPES TO MOVE TO LARGER FACILITIES AND DREAMS OF EVENTUALLY BUILDING A CENTER FOR REPORCOUCTIVE STUDIES.

EXTREMLY WELL. AFTER H TREATMENT OF LESLEY BROWN WENT
PRODUCED SEVERAL RIPE EGGS. AFTER THESE OVA WERE FERTILIZED.
STEPTOE AND EDWARDS CHOSE THE ONE THEY THOUGHT TO BE THE
BEST AND, FRON CHRONOSOMAL EXAMINATION, EVEN DETERMINED ITS
SEX. LESLEY, HOWEVER, INSISTED ON NOT BEING TOLD. SHE
EXPLAINED: "I'VE BEEN WAITING TOO LONG FOR THIS TO BE
DENIED THE SURPRISE OF LEARNING WHETHER THE BABY IS A BOY OR
GIRL AT BIRTH. "O ONCE IT WAS ESTABLISHED THAT SHE WAS
PREGNANT, MRS. BROWN WAS SENT TO THE MORE SPACIOUS AND
BETTER EQUIPPED MATERNITY WING AT OLDHAM. THERE SHE
PRESUMABLY UNDERWENT ALL THE MOST ADVANCED TESTING:
ULTRASONIC SCREENING TO CHECK THE POSITION AND STRUCTURE OF

THE FETUS, THE MONITORING OF MORMONE LEVELS, AND THE WITHDRAWAL OF AMMIOTIC FLUID PRON THE WOMB TO DETERMINE WHETHER THE CHILD HAD DOWN'S SYNDROME (MONGOLOIDISM), THE CONGENITAL MALFORMATION GALLED SPINA BIFA OR OTHER BIRTH DEFECTS, HAD THE DOCTORS DETECTED ANY SERIOUS PROBLEMS, LESLEY BROWN COULD HAVE QUICKLY BEEN ABORTED. OBSERVED DR. STUART J. STEELE, A FERTILITY EXPERT AT LONDON'S HIDDLESEX HOSPITAL MEDICAL SCHOOL; "MRS. BROWN WOULD HAVE MAD ALL THE VERY CLOSE MEDICAL SUPERVISION THAT ONE WOULD EXPECT IN A PARTICULARLY PRECIOUS PREGNANCY."

HOW THAT PRECIOUS PREGNANCY TURNS OUT WILL SHORTLY BE KNOWN STEPTOE AND EDWARDS, FOR THEIR PART, MUST SURELY FEEL THAT THE PROSPECTS ARE EXTREMELY GOOD, OTHERWISE THESE EXPERIENCED RESEARCHERS WOULD NEVER HAVE ALLOWED THE PREGNANCY TO GO SO FAR, AT SUCH HIGH RISK TO BOTH NOTHER AND CHILD TO SAY NOTHING OF THEIR OWN PROFESSIONAL REPUTATIONS. YET ON THE EVE WHAT MAY WELL BE A HISTORIC BIRTH, THERE ARE ALSO STILL MANY UNANSWERED QUESTIONS. FOR THE BROWN FAMILY, IT IS WHETHER THEIR TEST-TUBE CHILD IS HEALTHY AND CAN EYER HOPE TO HAVE ANYTHING RESEMBLING A NORMAL LIFE, FOR THE DOCTORS, IT IS WHETHER THEY HAVE PUSHED MEDICINE TO A NEW FRONTIER OR SET IT DRAMATICALLY BACK BY CREATING A MEDICAL DISASTER, FOR THE WORLD AT LARGE, IT IS WHETHER DOCTORS SHOULD BE FREE TO CONTINUE SUCH DARING EXPLOITS OR WHETHER NEW RESTRAINTS SHOULD BE IMPOSED ONTHEM TO KEEP THEM FROM VENTURING SO PRECIPITOUSLY INTO THE UNKNOWN. IN THE COMING DAYS, SOME ANSWERS SHOULD BE FORTHCOMING FROM THE RED-BRICK HOSPITAL IN OLDHAN.

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