

TRANSLATIONAL MEDICINE

PETER DEWLAND
MEDICAL DIRECTOR
PDC LTD

REPRESENTING AHPPI



TRANSLATIONAL MEDICINE

DREAM??



OR

NIGHTMARE??



PETE

pdca

IS THIS A RESULT OF GENE THERAPY??



TRANSLATIONAL MEDICINE

WHAT IS IT?

DOES ANYBODY KNOW A **CONCISE**
DEFINITION?



TRANSLATIONAL MEDICINE

THREE PHASES OF TRANSLATIONAL RESEARCH

- **BENCH TO BEDSIDE = PHASE I**
- APPLICATION TO ROUTINE PRACTICE = PHASE II
- TREATMENTS AND STRATEGIES = PHASE III
- ***WE ARE CONCERNED ONLY WITH PHASE I***



TRANSLATIONAL MEDICINE

MULTIDISCIPLINARY SCIENCE

PRECLINICAL SCIENTISTS

TOXICOLOGISTS

CLINICAL PHARMACOLOGISTS

THERAPEUTIC EXPERTS

EPIDEMIOLOGISTS

HEALTH ECONOMISTS

POLITICIANS

PATIENTS' GROUPS



TRANSLATIONAL MEDICINE

HOW WILL YOU GET THIS LOT TO

AGREE,

LET ALONE

COOPERATE ??



TRANSLATIONAL MEDICINE

IS THIS THE ROLE OF THE
SPECIALIST IN TRANSLATIONAL
MEDICINE?

TO COORDINATE ALL THE VARIOUS
STAKE HOLDERS?



TRANSLATIONAL MEDICINE

PHARMA PERSPECTIVE

NEED TO GET INTO PATIENTS QUICKLY

- COMPLEX ARRANGEMENTS WITH ACADEMIA
- NEED ACADEMICS TO RECRUIT THE PATIENTS
- CONTRACTS DIFFICULT WITH UNIVERSITIES/HEALTHCARE AGENCIES
- OFTEN DON'T DELIVER ON TIME



TRANSLATIONAL MEDICINE

TECHNOLOGY

HAS PHARMACEUTICAL MEDICINE KEPT UP WITH DEVELOPMENTS?

HAS CLINICAL MEDICINE KEPT UP WITH DEVELOPMENTS?



TRANSLATIONAL MEDICINE

YOU'VE HEARD OF THE SUCCESSES

BUT

WHAT ABOUT THE DISASTERS?



TRANSLATIONAL MEDICINE

CHILDREN

HAVE BEEN POORLY SERVED!

WE ARE ONLY JUST BEGINNING TO TAKE NOTICE!

ONLY NOW WE HAVE PDPs!



TRANSLATIONAL MEDICINE

CHILDREN

GENE THERAPY OF X-SCID GIVES RISE TO
LEUKAEMIA

IS IT THE USE OF RETROVIRUSES?

HAVE WE STUDIED ANIMALS FOR LONG ENOUGH?



TRANSLATIONAL MEDICINE

MONOCLONAL ANTIBODIES

LATENT JCV ACTIVATED TO GIVE PML

AT LEAST 3 MONOCLONALS IMPLICATED

PML DIFFICULT TO TREAT AND OFTEN FATAL



TRANSLATIONAL MEDICINE

TEGENERO

TGN 1412

STIMULATORY ANTIBODY

WRONG DOSE

MODE OF ACTION NOT FULLY UNDERSTOOD

WERE WE READY FOR IT?

CAN WE AVOID A REPEAT?



TRANSLATIONAL MEDICINE CONCERNS

WE NEED TO RELY ON OTHER DISCIPLINES

WE NEED TO RELY ON OTHER AGENCIES

MOST HEALTHCARE SYSTEMS DON'T HAVE THE
FLEXIBILITY TO COPE

MOST HEALTHCARE SYSTEMS CAN'T DELEGATE
TO OTHER DISCIPLINES



TRANSLATIONAL MEDICINE

CONCERNS

CAN WE TRUST A BUNCH OF ACADEMICS FROM
SEVERAL DISCIPLINES TO MAKE
CONSTRUCTIVE DECISIONS AND THUS
PROGRESS?

IS TOO MUCH AT STAKE?



TRANSLATIONAL MEDICINE

WAS IT BETTER THE OLD WAY?



TRANSLATIONAL MEDICINE

WE NEED TO BE MORE AWARE OF
THE *POTENTIAL* NIGHTMARES AND
THEN WE MAY MAKE SIGNIFICANT
PROGRESS



TRANSLATIONAL MEDICINE

WHO IS RESPONSIBLE?

WE ALL ARE!!

WE HAVE TO MAKE IT WORK



TRANSLATIONAL MEDICINE DISCUSSION



pdca