

Remote Authorisation of results

Fact or Fiction

Stephan Bates

http://www.eldoncard.com/

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ELDONCARD®

Dry format cards for blood typing
- the easy way to reliable testing of ABO and Rhesus Systems

Deutsch Español Française Brazilian Italiano Hindi Indonesian Russian

In particular suitable for blood typing

- in the practitioner's clinic
- at the bedside prior to transfusion
- in your home
- on remote locations
- in emergency situations
- on board ships and oil rigs
- on the battlefield
- in the schools with our special School Kit

Special Qualities

- Personal, lifelong record of bloodtype
- Doctors documentation of agglutination
- Long shelf-life at ambient temp.
- Safe, easy and fast (2 minutes)
- Bloodtype while you watch
- Low priced mono-clonal technique

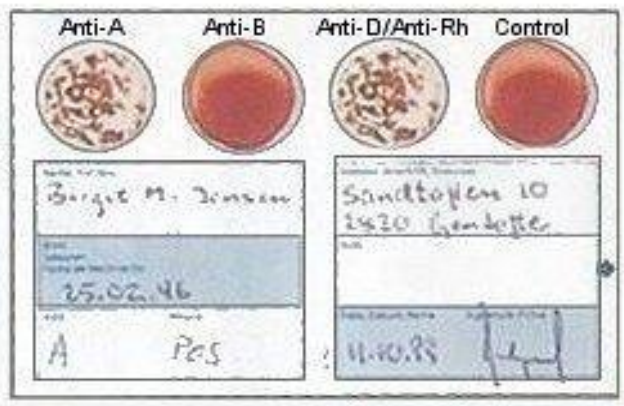
Translated by WebTra

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“We used the two tests in the kit to test my husband's blood type and we also tested mine (which I already knew) which gave the correct result.”



Remote Authorisation in Transfusion

- ❑ Blood groups
- ❑ Antibody Screens
- ❑ Antibody Identifications
- ❑ Cross-matches
- ❑ Getting second opinions and advice on results

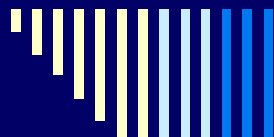
About data management, not having to be present in person to make a decision, providing all the data and information is available



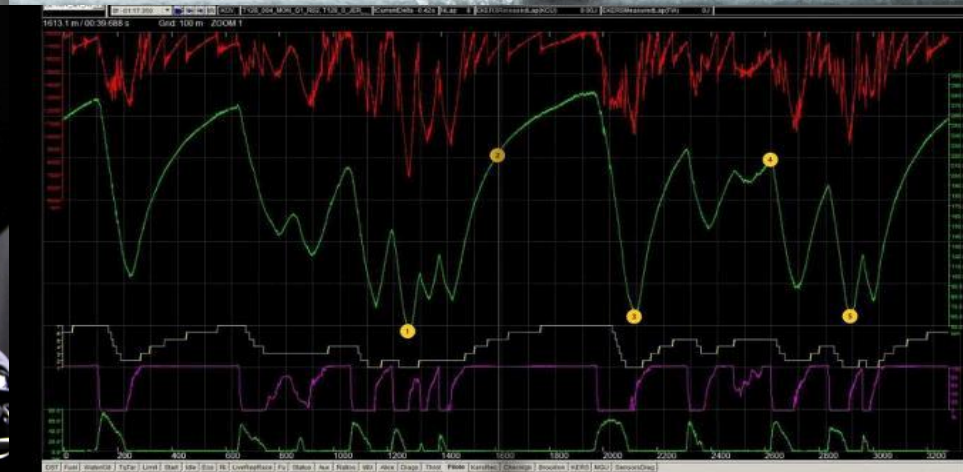
Remote Authorisation and decision making

Used throughout other areas of industry

e.g. Nuclear industry, Motor industry,
space travel, medicine



F1 Racing



RENAULT SPORT F1

Trevor Sanvictus Renault Sport F1 Support Leader gives us a technical look at Monaco

Pushing the Limits

Monaco is a street track and the circuit surface is very bumpy with the marshall stands sitting low, which do not help things. The race is very tight and the cars are very close together. The race is very tight and the cars are very close together. The race is very tight and the cars are very close together.

Grand Hotel margin

The Grand Hotel margin is the difference between the fastest lap and the slowest lap. It is a measure of the car's performance and is a key indicator of the car's speed.

Tire

The tire is a key component of the car's performance. It is responsible for the car's grip and handling. The tire is a key component of the car's performance.

Chassis

The chassis is the frame of the car. It is responsible for the car's structural integrity and is a key component of the car's performance.

Superspring Pool Chassis

The superspring pool chassis is a type of chassis that is designed to provide the car with a high level of performance. It is a key component of the car's performance.

Base car

The base car is the car that is used as a starting point for the development of the race car. It is a key component of the car's performance.

Space travel and Military Intelligence





Medicine

Dermatology diagnosis

**Aintree cuts stroke diagnosis
times with remote ICT access**

Prison Health - cutting the need for escorted hospital visits

MDT's

**NHS Surrey -
Remote diagnosis using video conferencing
is literally a lifesaver**

**CellaVision DM96
Automated Digital Cell
Morphology**



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Northern Ireland Politics

21 August 2012 Last updated at 12:53

289

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Robots to aid high dependency care at Daisy Hill Hospital



A Northern Ireland Health Trust is the first in the UK to use a robot which allows intensive care specialists from one hospital to remotely assess patients in another

A Northern Ireland Health Trust is the first in the UK to use a robot

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Thousands will resit GCSE English

Syrian plane had 'illegal cargo'

Armstrong 'has damaged cycling'

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Hospital complaints over Savile

Features & Analysis



Murky mystery

Why can't people stop searching for the Loch Ness Monster?



Meet the Veeps

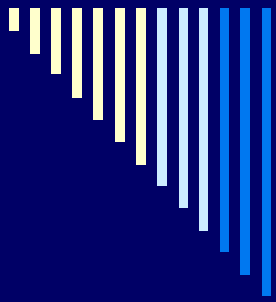
Ahead of debate, all eyes on rival running mates



Speaking out

The girl who stood up to the

Related Stories



Haematology and Clinical Chemistry

- Analysis in one area, validation and authorisation in another area/site
- Can be within the locality of the hospital or many miles apart across a network



GRH STAT (6) GRH Validate (12) GRH Pending (69) All Validate (52) CGH STAT (1) CGH Validate (40) CGH Pending (18) HOST (3) ALL (551)

Flags	Sample Id	Patient	Patient ID	Position	Department	Tag
● SOCR-----	210185721N		MRN0319333	19/6	17 - MSHAGRH	
● -OCR-----	210185728V		MRN0408302	20/0	208 - GRHA...	
● --CR-----	210185741Q		MRN0528732	3/9	144 - SHCK...	
● SOCR-----	210185746K		MRN0664708	4/0	17 - MSHAGRH	
● SOCR-----	210185767V		MRN0062098	11/2	17 - MSHAGRH	
● -OCR-----	210185768R		MRN0506646	11/1	646 - GRHA...	
● --C-----	210185779A		MRN0568190	7/6	75 - GRHA-T3B	
● -OCR-----	210186218R		MRN0622385	16/5	580 - SVPN...	
● -OCR-----	210186654P		MRN0435185	17/9	257 - GRHA...	
● SOCR-----	210187036Q		MRN3053229	16/2	58 - ONCCGH	
● -OCR-----	210187242H		4726877372	27/7	GP - GP	
● -OCR-----	210187411C		0000000	23/6		



What about Blood Transfusion

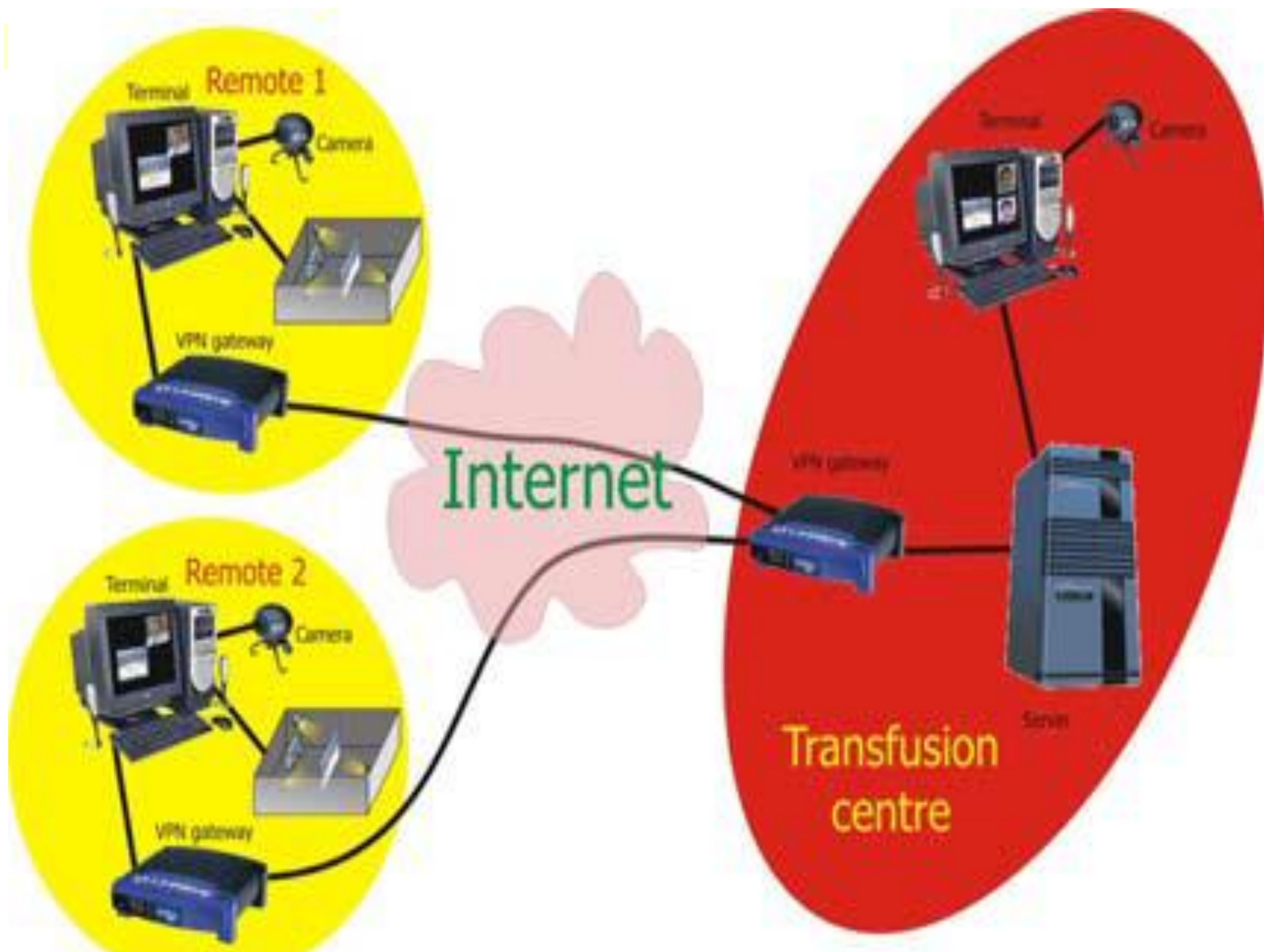
Can it be done?

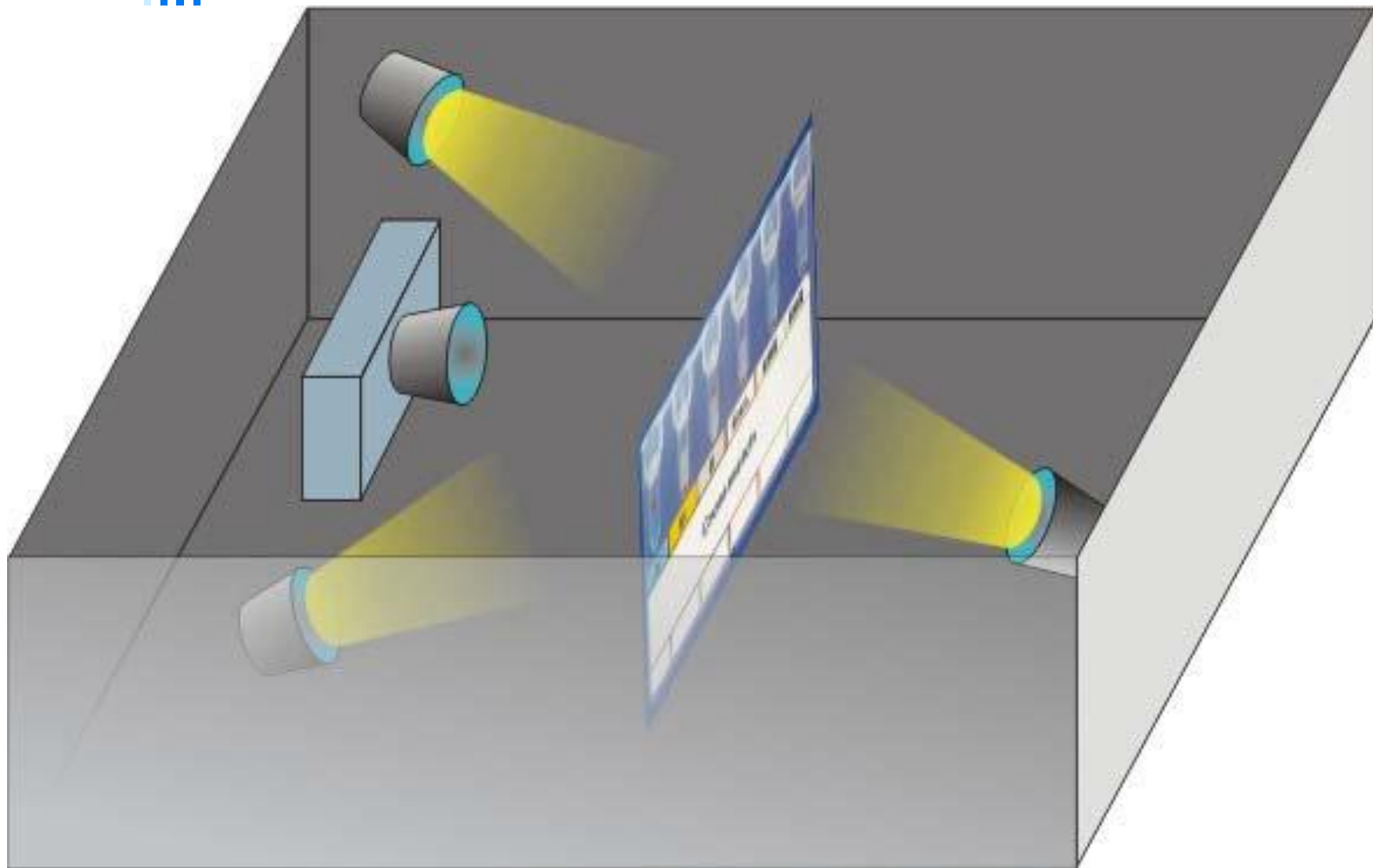
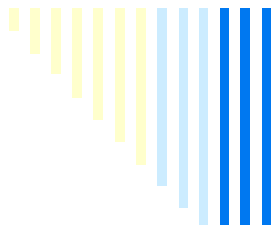
Should it be done?

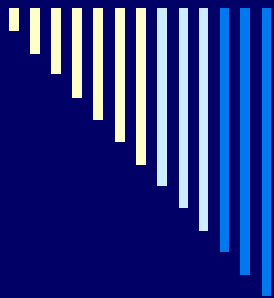
Telemedicine in the Blood Transfusion



“We have developed a telemedicine system for blood transfusion work, to supply the local hospital laboratory with an expert opinion from the central reference laboratory”





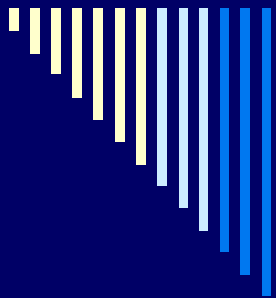


Conclusions

With appropriate organisation and by the virtue of tele-medicine, it is possible to perform remote professional consultations. We expect that telemedicine will find it place in transfusion medicine and blood transfusion services

2007

M. Meža, et.al LDOS, University of Ljubljana, Faculty for
Electrical Engineering, Ljubljana, Slovenia² Blood Transfusion
Centre of Slovenia, Ljubljana, Slovenia



How would it work

- Before any decisions can be made full access required to:
 - reaction images -- need to be of high quality
 - reagent information
 - Quality Control
 - patient information
- Access to previous results and reactions
- Robust links for remote access



Core Lab

Satellite C

Satellite A

Satellite B



Advantages

- More efficient use of limited qualified and experience of staff
 - Improved supervision and advice
 - Aid the use of cross discipline staff in transfusion
 - Allows experience/knowledge to be shared over a wider network
 - Allows skill mix review ? less qualified staff to load and operate machines
 - Ensure cost effective use of limited budgets
 - Allows the pooling of expertise and experience useful in times of shortage e.g. sickness, OOH, holidays etc
-



Advantages

- ❑ Could allow external advice and support to be gained from anywhere with access to the web-based interface
 - ❑ Would aid labs within the network to work to the same SOPS, rules based systems and standards
 - ❑ Could allow support for more complex testing in remote locations
 - ❑ Possible to allow centralised results review by experienced and qualified staff
 - ❑ Would allow access to view historical reactions and results before final decisions are made
-



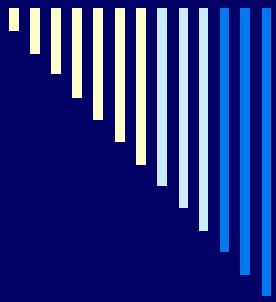
Disadvantages

- ❑ Further diminution of skilled staff
 - ❑ Require investment to set up
 - ❑ Significant training commitment
 - ❑ Resilience - interfaces, technology, reliance on smaller staff group,
 - ❑ Need to ensure appropriate control mechanisms are in place-
 - ❑ All staff to understand and follow roles and responsibilities
 - ❑ Views of regulatory authorities would be important
-



Transfusion History

- Manual grouping and antibody screening,
 - *automation now the standard*
 - Serological Cross-Matching done on all transfusions
 - *then immediate spin*
 - e-issue was feared originally
 - *now common place*
 - Remote issue --initial concerns
 - *now gaining popularity with BloodTrack and Bloodhound*
 - All done with guidelines and to set standards
 - Remote authorisation will take place more commonly
-



Remote Authorisation

Fact

NOT

Fiction



THANK YOU FOR LISTENING

