

# AABB UDHQ: New versus Old

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# Medical History

## Question 22

**Female donors:** In the past 12 months have you had sexual contact with a male who has ever had sexual contact with another male?



**Unsafe sex?**



**Laurie Rogenski, RN**

**Back**

**Yes**

**???**

**No**

**Next**



# Medical History

## Question 25

In the past 12 months have you had a tattoo?



Tattoo?



Laurie Rogenski, RN

Back

Yes

???

No

Next

# Questions

- What is the time advantage of the new 49 question (nDHQ) versus old 61 question UDHQ?
- Is there a change in donor deferral rates that can be associated with the new formatting of donor queries?

# Method

- All donor computer interactions recorded by the Quality Donor System™ (QDS)
  - Touch screen button presses – back, yes, no, help & skip
  - Time intervals captured for analysis
- Aberrant donor responses require staff review
- Staff interactions recorded by QDS
  - Questions reviewed
  - Comments
  - Accept/defer by question & overall
- Time by question and total

# Method - continued

- Compared nDHQ and UDHQ metrics
  - Donor and staff time
  - Number of questions answered
  - Questions reviewed
  - Nature of questions reviewed
  - Deferral rates

# Donor nDHQ Census

- MVRBC Davenport HQ fixed site
- 58% male, 42% female (UDHQ 59%, 41%)
- 35 (1.1%) first time donors
- 399 (12.2%) first-time QDS users

# Mean Times (minutes)

	N	Interview	Wait	Staff review	Total
UDHQ	17135	5.35	1.88	1.77	9.00
nDHQ	3272	4.74	1.82	1.09	7.66
Difference*		0.61 (11.4%)	0.06	0.68 (38.4%)	1.34 (14.9%)
P value†		<.0001	.74	<.0001	<.0001

\*Actual average questions/interview: 49.8 UDHQ and 47.4 nDHQ

†Mann-Whitney U test

UDHQ: 17135 interviews 3/31/2003-7/19/2004

nDHQ: 3272 interviews 2/21/2005-4/27/2005



# Questions Requiring Staff Review

	Responses	Interviews	Questions Reviewed	% of Responses	Reviews/ Interview
UDHQ	855856	17200	40211	4.70	2.34
nDHQ	155384	3277	3259	2.10	0.99
Diff				2.60 (55.4%)	1.34 (57.5%)

p<.00001 chi-square. OR 0.42 (95% CI 0.41-0.44)

# Reviewable Responses

	UDHQ	nDHQ	%UDHQ	% nDHQ
Skip/help	1027	191	0.12	0.12
Yes/no changed	4999	314	0.58	0.20
Aberrant after rev.	34,400	2787	4.02	1.79
Caused deferral	178*	56*	0.02	0.04
Total	40,211	3259	4.70	2.10

\* Deferrable answers, not deferred donors. Total deferrals were 146 and 54

# Questions Most Reviewed

No.	Question	Freq	Cumul
29	Travel outside US	21.8%	21.8%
9	Donated recently	19.7%	41.5%
6	Aspirin	17.8%	59.2%
31	Military (vCJD)	8.7%	68.0%
45	Heart/lung problem	7.4%	75.3%
44	Cancer	4.4%	79.7%
4	Medication list	2.9%	82.7%

nDHQ: 3272 interviews 2/21/2005-4/27/2005

# Deferrals (Health History)

	Deferrals	%	Interviews
UDHQ	146	0.85%	17135
nDHQ	54	1.67%	3272
Difference		0.82%^	

\* $p < .0003$  chi-square. OR 1.97 (95% CI 1.44-2.70)

^ Appears transitory based on Slide 14

UDHQ: 17135 interviews 3/31/2003-7/19/2004

nDHQ: 3272 interviews 2/21/2005-4/27/2005

# Deferrals (Health History)

	Deferrals	%	Interviews
UDHQ	32	0.85%	3170
nDHQ	54	1.67%	3272
Difference		0.82%^	

\*p=.031 chi-square. OR 1.66 (95% CI 1.01-2.57)

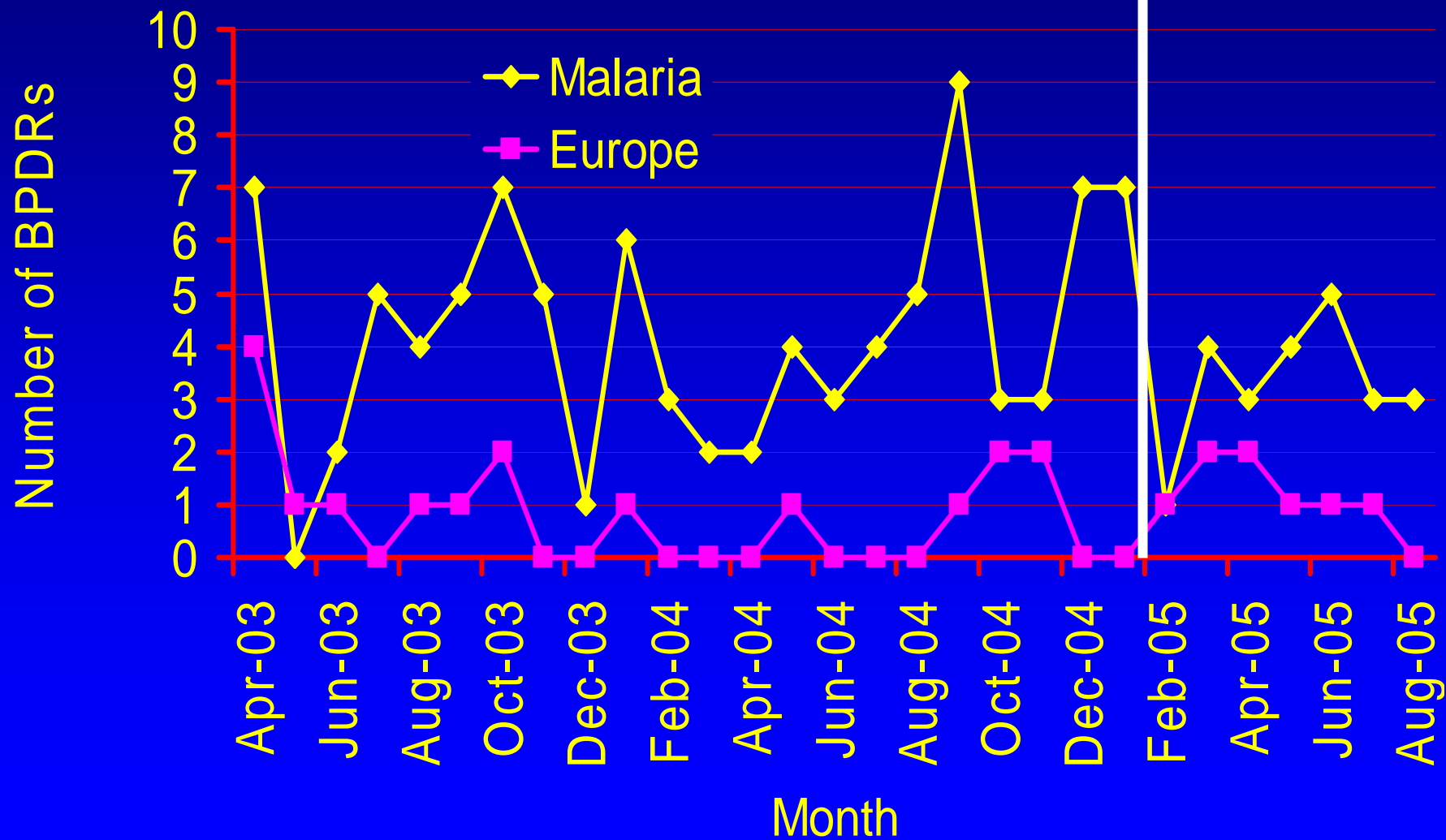
^ Appears transitory based on Slide 14

UDHQ: 3170 interviews 2/21/2004-4/27/2004

nDHQ: 3272 interviews 2/21/2005-4/27/2005

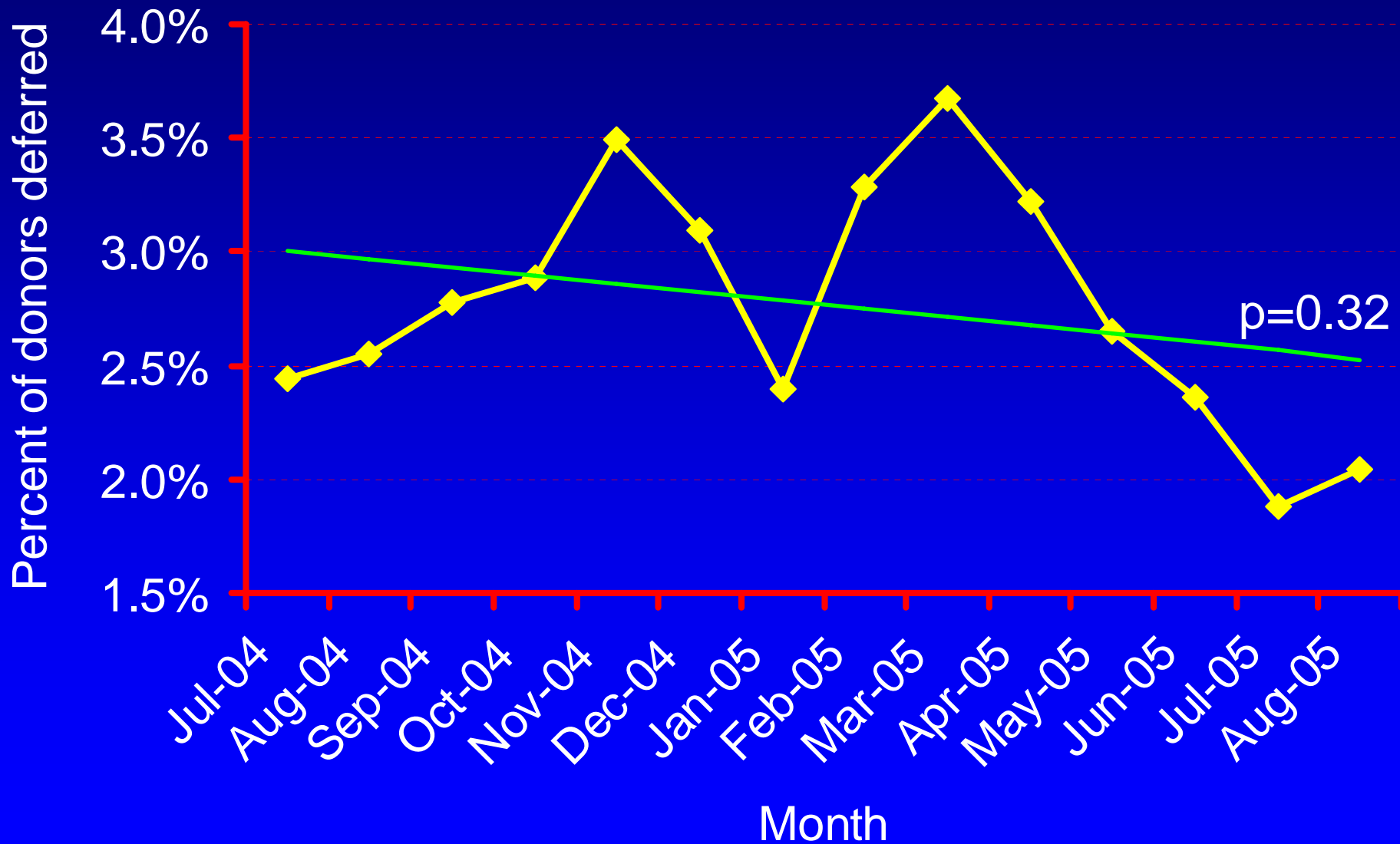


# Travel BPDRs Per Month – All Sites



# Donor History Deferrals July 2004-Aug 05

## All Sites



# Standardized Review Comments

- ~95% reviewer comments can be scripted
- For example:
  - Donor did not understand question
  - Travel to [place], returned [date], stayed [days].  
[malaria/vCJD/other/OK]
  - Taking [antibiotic] for [condition] last dose [date]
  - Donated [blood/plateletpheresis/plasma] [date]
  - ASA daily as preventative

# Summary

- Total time reduced 14.9%
  - Donor self interview time -11.4%
  - Staff time -38.1%
- Average questions/interview down 5.0%
- Questions reviewed/interview down 57.5% - 1.0 nDHFQ versus 2.3 UDHFQ

# Conclusions

- The new UDHQ is faster for both staff and donors as intended by the AABB UDHQ Taskforce
- AVT-CASI is conducive to scripted staff reviewer comments
- No discernible impact on donor history deferral rates using new UDHQ



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