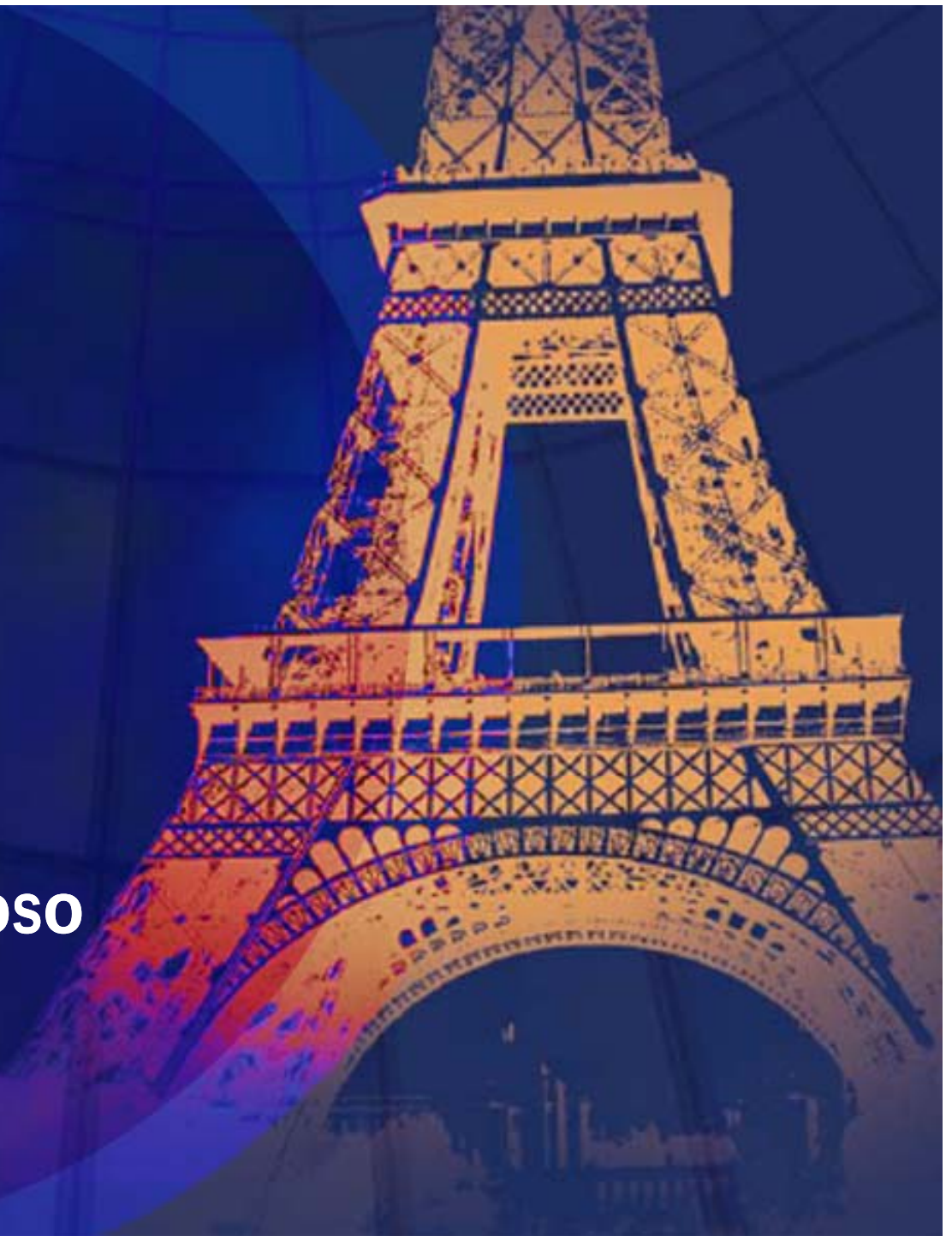


Case Report

Ana Carolina Cardoso
Hôpital Beaujon



Case Report

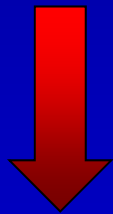
- ✓ 57 years old, female
- ✓ BMI: 30, DM
- ✓ Contamination: unknown
- ✓ 2004: diagnosis of HCV infection
- ✓ Genotype 1b, Viral Load: 1 200 000 IU/mL
- ✓ No excessive alcohol intake and tobacco use

Case Report

- ✓ Liver biopsy (2005): A1F2 (METAVIR)
- ✓ Treatment (2005): PEG INF / RBV – NR
- ✓ Poor tolerance
- ✓ Follow-up / not retreated

Case Report

- January / 2010



Liver Biopsy ?

✓ Platelets 170 G/L

✓ PT 85 %

✓ ALT 102 IU/l

✓ AST 93 IU/l

✓ GGT 62 IU/L

Case Report

January / 2010

FibroScan® – 15.2 kPa



Case Report

FibroScan®

Lastname
[REDACTED]

Firstname
[REDACTED]

Code
[REDACTED]

Birthdate
[REDACTED]

Operator
[REDACTED]

Date
[REDACTED]

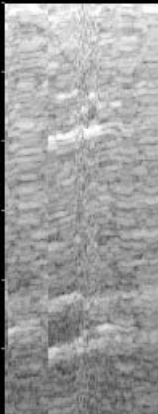
Examination time
[REDACTED]

Stiffness (KPa)
15.2

IQR (KPa)
-0.9

CS (KPa)
14.6

20.0
30.0
40.0
50.0
60.0
70.0
80.0

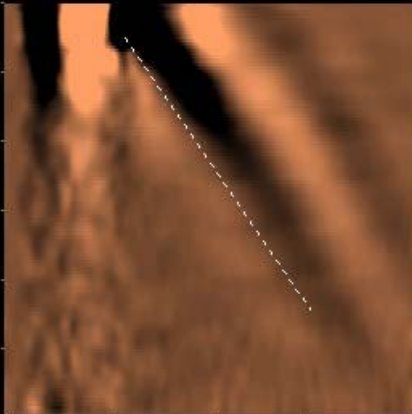


20.0
30.0
40.0
50.0
60.0
70.0
80.0





20.0
30.0
40.0
50.0
60.0
70.0
80.0



0 20 40 60 80

< >



Information

Archives

Start

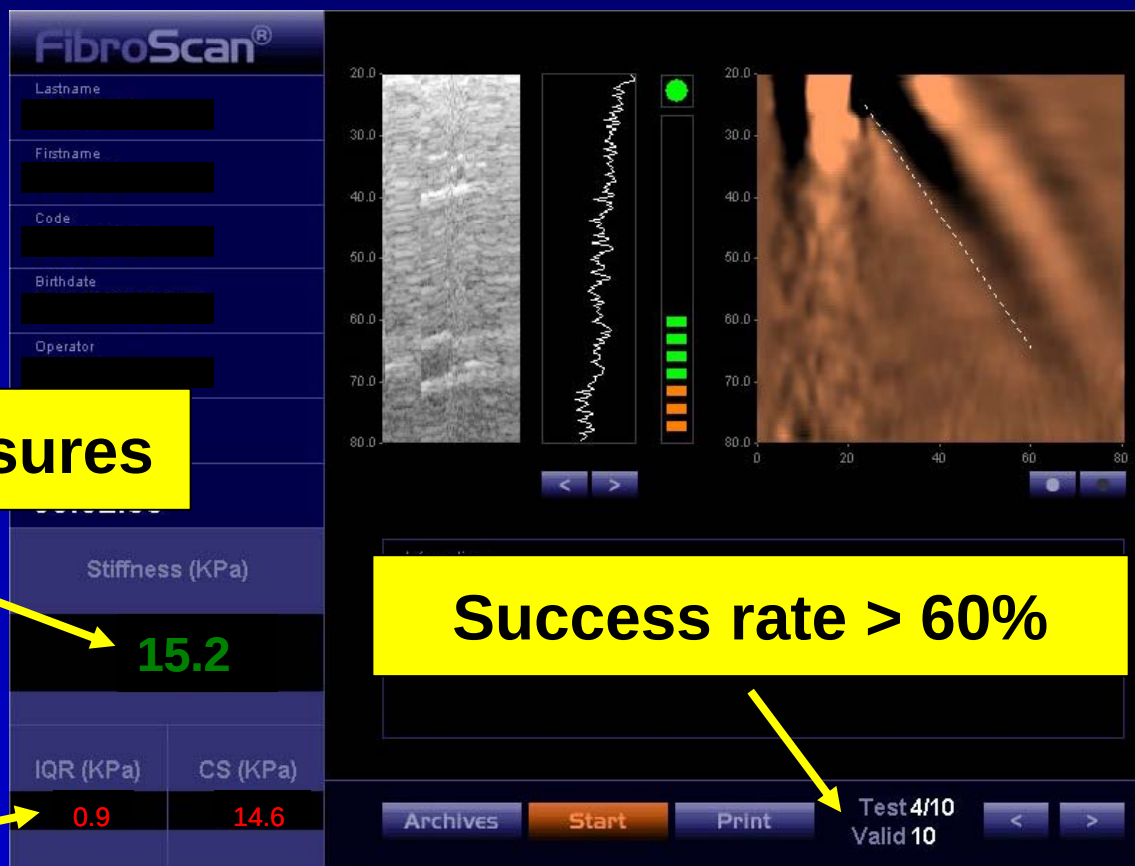
Print

Test 4/10
Valid 10

< >

Case Report

10 validated measures



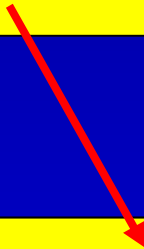
Success rate > 60%

IQR < 30% median

Case Report

January / 2010

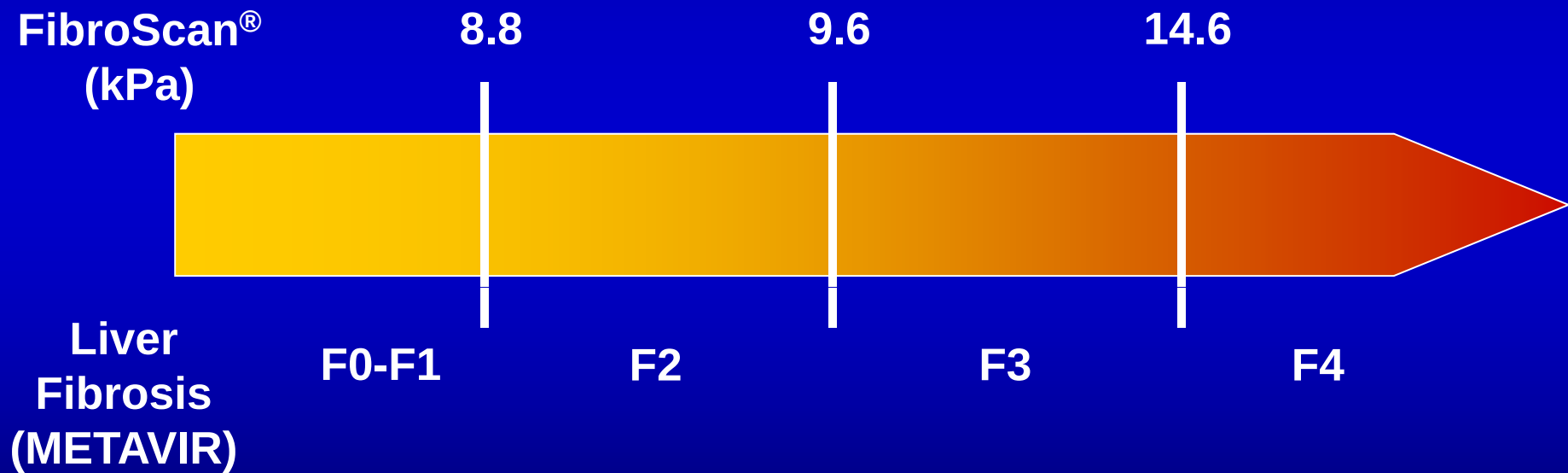
FibroScan® – 15.2 kPa



FibroScan® – 15.2 kPa / 0.9 / 90%



Case Report



Case Report - Question 1

What could we conclude ?

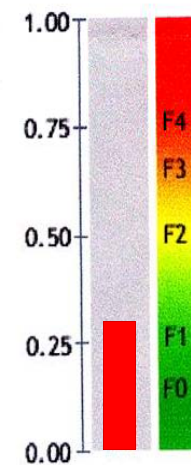
1. FibroScan® is correct ?
2. Liver Biopsy ?
3. Another non invasive test ?

Case Report

January / 2010

FibroTest – 0.29

FibroTest



Case Report

January / 2010

FibroTest – 0.29

Fibrotest	Equivalent METAVIR
0.75-1.00	F4
0.73-0.74	F3-F4
0.59-0.72	F3
0.49-0.58	F2
0.32-0.48	F1-F2
0.28-0.31	F1
0.22-0.27	F0-F1
0.00-0.21	F0

Case Report

Alpha-2 macroglobulin

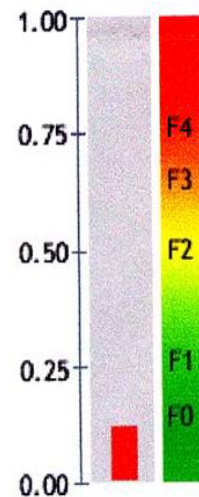
Total Bilirubin

Gamma GT

Apolipoprotein A1

Haptoglobin

FibroTest



Score : 0.12
(F0)

Fibrotest	Equivalent METAVIR
0.75-1.00	F4
0.73-0.74	F3-F4
0.59-0.72	F3
0.49-0.58	F2
0.32-0.48	F1-F2
0.28-0.31	F1
0.22-0.27	F0-F1
0.00-0.21	F0

Case Report - Question 2

What should we propose ?

- 1. FibroScan® and Fibrotest 3/6 months later ?**
- 2. Liver biopsy ?**
- 3. Start new treatment immediately ?**

Case Report

- July / 2010

✓ Platelets 181 G/L

✓ PT 79 %

✓ ALT 133 IU/L

✓ AST 88 IU/L

✓ GGT 60 IU/L

Case Report

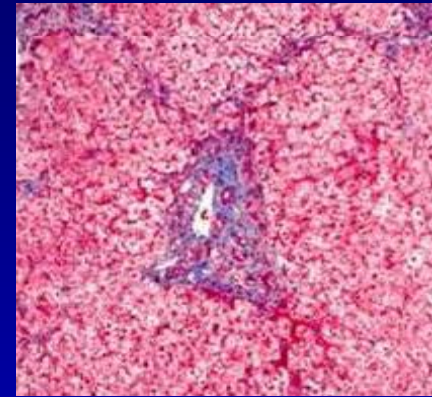
July / 2010

FibroScan® – 16.0 kPa / 1.2 / 100%

FibroTest – 0.27

Case Report - Liver Biopsy

September / 2010



- ✓ Liver fragment – 20 mm and 12 portal tracts
- ✓ METAVIR - A1 F2 (40% - Steatosis)
- ✓ No difference in comparison with previous liver biopsy

Case Report

FibroTest (n=8524)

False Positives

✓ **Hemolysis**

Haptoglobin < 0.30 g/l

✓ **Gilbert**

Bilirubin >17 µmol/l

GGT < 30 UI/l

✓ **Sepsis**

False Negatives

✓ **Inflammation**

Haptoglobin > 2.0g/l

Case Report

FibroScan® (n=13 369)

Uninterpretable Results

- ✓ Obesity (BMI > 30)
- ✓ Limited operator experience
- ✓ Female
- ✓ Age > 52 ys
- ✓ Diabetes
- ✓ Hypertension

Case Report

Take-Home Messages

- ✓ Combining serum markers + FibroScan® can avoid liver biopsy in some cases.
- ✓ However discordance can occurs in 25%
- ✓ 10% of the discordances do not have an explanation
- ✓ Liver biopsy persist as the best standart for these cases

Case Report

Alpha-2 macroglobulin

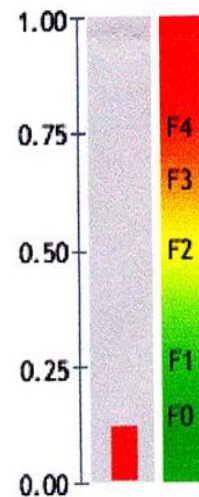
Total Bilirubin

Gamma GT

Apolipoprotein A1

Haptoglobin

FibroTest



Score : 0.12
(F0)

Fibrotest	Equivalent METAVIR
0.75-1.00	F4
0.73-0.74	F3-F4
0.59-0.72	F3
0.49-0.58	F2
0.32-0.48	F1-F2
0.28-0.31	F1
0.22-0.27	F0-F1
0.00-0.21	F0