Supplementary material: Case questions

Correct answers, calculated by the app *Labtracker+*, are shown in bold.

Reference values are from Maastricht University Medical Center (MUMC+).

1. Glucose

Reference values fasting glucose [4.0 – 7.0 mmol/L]

First measurement: **[7.3 mmol/L]**
Second measurement (**two weeks later**) : **[6.9 mmol/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely(>95%)

2. TSH

Reference values TSH [0.4-4.3 mU/L]

First measurement: **[6.5 mU/L]**
Second measurement (**three months later**) : **[7.1 mU/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

3. CRP

Reference values CRP: <10 mg/L

First measurement: **[79 mg/L]**
Second measurement (**two days later**): **[106 mg/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

4. Haemoglobin

Reference values haemoglobin for a woman (7.5-9.5 mmol/L)

First measurement: **[7.0 mmol/L]**
Second measurement (**six months later**): **[7.2 mmol/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

5. HbA1c

Target value HbA1c <58 mmol/mol

First measurement: **[55 mmol/mol] (= 7.2%)**
Second measurement (**6 months later**): **[60 mmol/mol] (= 7.6%)**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

6. Leukocytes

Reference values leukocytes [3.5-11.0*10 ^{9}/L]

First measurement: **[12*10^{9}/L]**
Second measurement (**14 days later**): **[14*10^{9}/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

7. aPTT (this question was excluded from analyses)

Reference values aPTT [18-36 sec]

First measurement: **[30 sec]**
Second measurement (**a few hours later**) : **[34 sec]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

8. Vitamin B12

Reference values vitamin B12 [250-850 pmol/L]

First measurement**:** **[114 pmol/L]**
Second measurement (**3 months later**): **[125 pmol/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

9. ALAT

Reference values ALAT < 45U/L

First measurement**:** **[44 U/L]**
Second measurement (**6 months later**): **[55 U/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)

10. Creatinine

Reference values creatinine for men [60-110 µmol/L]

First measurement**:** **[89 µmol/L]**
Second measurement (**one year later**): **[109 µmol/L]**

What is the probability likelihood that this is a real change?

A: Unlikely (<50%)
B: Doubtful (50-80%)
C: Likely (80-95%)
D: Very likely (>95%)