Using REFLEX study tools with Systmone

1. Import the report files supplied by the REFLEX study team into Clinical Reporting in Systmone (you cannot open or view these files – they only function within Systmone).
2. Run the reports
3. **\*Uncalculated FIB-4 score** is used to calculate a FIB-4 score where one may have not been coded to identify patients which otherwise would not be found.
   1. Select **Breakdown Results**
   2. Check the boxes for the following criteria
      1. Demographics: **Age in years** (NB – Not Age).
      2. ALT: Coded entries: **Numeric value**; Event details: **Event date**
      3. AST: Coded entries: **Numeric value**; Event details: **Event date**
      4. Platelets: Coded entries: **Numeric value**; Event details: **Event date**
   3. Select **Show Patients**
   4. Select **Save All Pages to CSV**
   5. In the Excel file that then opens **delete the top row** (A1 = #NAME? etc)
   6. Copy all the remaining rows and columns to the clipboard
   7. Open **REFLEX data entry template.xlsx** supplied by the REFLEX study team
   8. Paste the data from the clipboard to the highlighted cell A3 (Copy and paste data here)
   9. Copy cells **Q2** and **R2**  ( )
   10. Paste these cells to all cells in columns **Q** and **R** where data has been added from the report
   11. Filter column **Q** to show only values equal to **0** (this confirms blood results are from the same day)
   12. Filter column **R** to show only value greater than 1.44 (to remove all FIB-4 scores less than 1.45)
   13. Select column **I** and type **remove duplicates** in the search box at the very top of the spreadsheet
   14. Select **Remove Duplicates**, ensure **Expand the selection** is selected, then click on **Remove Duplicates**
   15. Uncheck all the boxes other than **NHS number**
   16. The remaining patients have a FIB-4 score greater than 1.44 and could be eligible.
   17. Code these patients in Systmone with their FIB-4 score and the date of the blood test that led to this calculation, the proceed to the following step¹
4. **\*FINAL: Type 2 diabetes with no coded exclusions aged >18 (all sites)** identifies patients who are potentially eligible for recruitment, and will exclude patients where an ELF has been coded within the last 2 years, or if the latest FIB-4 is less than 1.45.

*¹The FIB-4 score is calculated using the formula:* ***Age ([yr] x AST [U/L]) / ((PLT [10(9)/L]) x (ALT [U/L])(1/2).*** *The spreadsheet calculation assumes that a site’s laboratory reports platelet counts with the unit of 10⁹/L, and AST and ALT in iU/L.*

*Some practices may prefer not to code patients’ medical records with a score from this calculation in retrospect, in which case the exclusion criteria for study eligibility will need to manually applied.*