

# SCI DIABETES: MAKING IT WORK FOR PATIENTS

DR KASHIF ALI

GP

PRIMARY CARE LEAD DIABETES MCN

# DASHBOARD



**SCI-Diabetes**

- APPROVED BY SCI-DIABETES AND SCOTTISH DIABETES GROUP
- ACCESS VIA SCI-DIABETES
- MEANINGFUL OUTCOME MEASURES (DIABETES IMPROVEMENT PLAN)
- COMPARISON ACROSS SCOTLAND / BOARDS / CLUSTERS / PRACTICES
- MEASURES ACCORDING TO RAG (RED, AMBER, GREEN) STATUS
- TREND DATA AND RUN RATE GRAPHS
- EASY TO AUDIT / CONDUCT SEARCHES / EXPORT LISTS
- COMING SOON- INTEGRATION VIA NEW GP SOFTWARE SYSTEMS

SCI-Diabetes - Dashboard

https://sci-diabetes1.mhs.scot.nhs.uk/sci-diabetes1/dashboard/ManageDashboard.aspx

SCI-Diabetes **Dashboard**

Step 1: Select Dashboard: **Diabetes Care**

Step 2: Select Criteria - Data view: **Latest** Cohort: **Type 2 & Other 18+** Main domain: **S0070 - Greater Glasgow and Clyde - 49144 - DR I M MACDONALD & PTNRS** Comparator domain: **S0070 - Greater Glasgow and Clyde - S - Grey Cluster**

Step 3: View Selected Dashboard:

| Dashboard              | Data View              | Patient Cohort         | Region - Population   |  |  |  | Compared with  |  |  |
|------------------------|------------------------|------------------------|---|--|--|--|--|--|--|
| Diabetes Care          | Latest                 | Type 2 & Other 18+     | 49144 - DR I M MACDONALD & PTNRS<br>as at 06-Feb-2021 19:05<br>516 patients |  |  |  | S - Grey Cluster<br>as at 06-Feb-2021 19:05<br>1811 patients |  |  |
| <a href="#">Change</a> | <a href="#">Change</a> | <a href="#">Change</a> |   |  |  |  |  |  |  |

| Pathways of Care                         |  | Measures of Care                 |       |                  |       | Standards of Care |        |       |
|--|--|----------------------------------|-------|------------------|-------|-------------------|--------|-------|
| Click on a measure below to view details |  | 49144 - DR I M MACDONALD & PTNRS |       | S - Grey Cluster |       | Red               | Amber  | Green |
|  |  | Measure                          | Trend | Measure          | Trend |                   |        |       |
| <b>1. Glycaemic Control</b>              |  |                                  |       |                  |       |                   |        |       |
| 1.1                                      | HbA1c Recorded                           | 86%                              | 👎     | 80.5%            | 👎     | < 75%             | 75-85% | > 85% |
| 1.2                                      | HbA1c < 58mmol/mol 1 year post diagnosis | 62.5%                            | 👎     | 69.2%            | 👎     | < 70%             | 70-75% | > 75% |
| 1.3                                      | HbA1c < 58 mmol/mol                      | 51.6%                            | 👍     | 50.8%            | 👎     | < 50%             | 50-55% | > 55% |
| 1.4                                      | HbA1c > 75 mmol/mol                      | 18.9%                            | 👎     | 19.1%            | 👎     | > 25%             | 20-25% | < 20% |
| <b>2. Cardiovascular Health</b>          |  |                                  |       |                  |       |                   |        |       |
| 2.1                                      | BP Recorded                              | 81.4%                            | 👎     | 72.1%            | 👎     | < 75%             | 75-85% | > 85% |
| 2.2                                      | BP <= 130/80mmHg                         | 35.7%                            | 👎     | 34.4%            | 👎     | < 60%             | 60-75% | > 75% |
| 2.3                                      | Cholesterol Measured                     | 68%                              | 👎     | 65.7%            | 👎     | < 75%             | 75-85% | > 85% |
| 2.4                                      | Statin use in > 50                       | 70.4%                            | 👍     | 74.1%            | 👍     | < 60%             | 60-75% | > 75% |
| <b>3. Kidney Health</b>                  |  |                                  |       |                  |       |                   |        |       |
| 3.1                                      | Albuminuria Screened                     | 33.7%                            | 👎     | 41.7%            | 👎     | < 75%             | 75-85% | > 85% |
| 3.2                                      | eGFR Measured                            | 89.3%                            | 👎     | 83.8%            | 👎     | < 75%             | 75-85% | > 85% |
| 3.3                                      | Albuminuria on AT2 Inhibitors            | 70.8%                            | 👎     | 76.1%            | 👎     | < 60%             | 60-75% | > 75% |
| 3.4                                      | Albuminuria and SBP > 130mmHg            | 65.5%                            | 👍     | 61.9%            | 👍     | > 40%             | 30-40% | < 30% |
| 3.5                                      | Albuminuria and HbA1c > 75mmol/mol       | 32.1%                            | 👎     | 24.5%            | 👍     | > 40%             | 30-40% | < 30% |

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DASHBOARD: COMPARE YOUR PRACTICE TO YOUR CLUSTER DATA

SCI-Diabetes - Dashboard

https://sci-diabetes1.mhs.scot.nhs.uk/sci-diabetes1/dashboard/ManageDashboard.aspx

Dashboard

Funnel Plot to Identify Outliers

### HbA1c < 58 mmol/mol

Pathways of Care: 1 Glycaemic Control

Measure: 1.3 HbA1c < 58 mmol/mol

|                                   | Red<br>< 50%                             | Amber<br>50-55%                          | Green<br>> 55%                           |  |
|-----------------------------------|--|--|--|--|
| <b>Domains</b>                    | <b>Q1/20<br/>as at 04-Apr-2020 21:18</b> | <b>Q2/20<br/>as at 04-Jul-2020 21:37</b> | <b>Q3/20<br/>as at 04-Oct-2020 02:40</b> | <b>Q4/20<br/>as at 02-Jan-2021 18:15</b> |
| 49200 - DR M J LEONARD & PARTNERS | 66%                                      | 66%                                      | 66%                                      | 61.1%                                    |
| 49553 - DR A A FITCHETT & PTNRS   | 54.9%                                    | 53.8%                                    | 55.6%                                    | 53.5%                                    |
| 52151 - WAVERLEY PARK MEDICAL PTC | 53.8%                                    | 52.3%                                    | 54.2%                                    | 52.5%                                    |
| 52429 - POLLOKSHAWS MEDICAL CTRE  | 53.4%                                    | 56.5%                                    | 55.9%                                    | 51.9%                                    |
| <b>S - Grey Cluster</b>           | <b>52.1%</b>                             | <b>52.8%</b>                             | <b>53.4%</b>                             | <b>51%</b>                               |
| 49144 - DR I M MACDONALD & PTNRS  | 50.1%                                    | 49.9%                                    | 51.4%                                    | 51.7%                                    |
| 49712 - THE PARK SURGERY          | 48.4%                                    | 53%                                      | 54.7%                                    | 53.7%                                    |

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COMPARE WITH YOUR CLUSTER PRACTICES

SCI-Diabetes - Dashboard

https://sci-diabetes1.mhs.scot.nhs.uk/sci-diabetes1/dashboard/ManageDashboard.aspx

Dashboard

Step 1: Select Dashboard: Diabetes Care

Step 2: Select Criteria - Data view: Latest Cohort: Type 2 & Other 18+ Main domain: S0070 - Greater Glasgow and Clyde - 49144 - DR I M MACDONALD & PTNRS Comparator domain: S0000 - Scotland

Data view: Latest

Patient cohort: Type 2 & Other 18+

Main domain: View mapping of GP Cluster to GP Practice. GP Cluster id

Select from your populations: [Dropdown]

Region: S0070 - Greater Glasgow and Clyde

Type of population: GP Practice

Name of population: 49144 - DR I M MACDONALD & PTNRS

Comparator domain: View mapping of GP Cluster to GP Practice. GP Cluster id

Select from your populations: [Dropdown]

Region: S0070 - Greater Glasgow and Clyde

Type of population: GP Cluster

Name of population: S - Grey Cluster

Set As Default Display Dashboard Reset

Domain Demographic Comparison

| Category   | Age 18-25 | Age 26-40 | Age 41-70 | Age >70 |
|------------|-----------|-----------|-----------|---------|
| Main       | 63.0%     | 32.9%     |           |         |
| Comparator | 61.2%     | 34.6%     |           |         |

| Category   | Female | Male  |
|------------|--------|-------|
| Main       | 45.5%  | 54.5% |
| Comparator | 44.3%  | 55.7% |

| Category   | SIMD 1 | SIMD 2 | SIMD 3 | SIMD 4 | SIMD 5 | Unknown |
|------------|--------|--------|--------|--------|--------|---------|
| Main       | 13.8%  | 19.8%  | 31.9%  | 25.6%  |        |         |
| Comparator | 22.1%  | 16.2%  | 13.9%  | 26.4%  | 21.1%  |         |

Step 3: View Selected Dashboard:

| Dashboard              | Data View              | Patient Cohort         | Region - Population   | Compared with  |
|------------------------|------------------------|------------------------|---|--|
| Diabetes Care          | Latest                 | Type 2 & Other 18+     | 49144 - DR I M MACDONALD & PTNRS<br>as at 06-Feb-2021 19:05<br>516 patients | Scotland<br>as at 06-Feb-2021 19:05<br>283047 patients |
| <a href="#">Change</a> | <a href="#">Change</a> | <a href="#">Change</a> |   |  |

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COMPARE PRACTICE POPULATIONS ACCORDING TO AGE /SEX/ SIMD DATA

# MONITORING OF “PROCESSES OF CARE” IN PATIENTS WITH T2DM

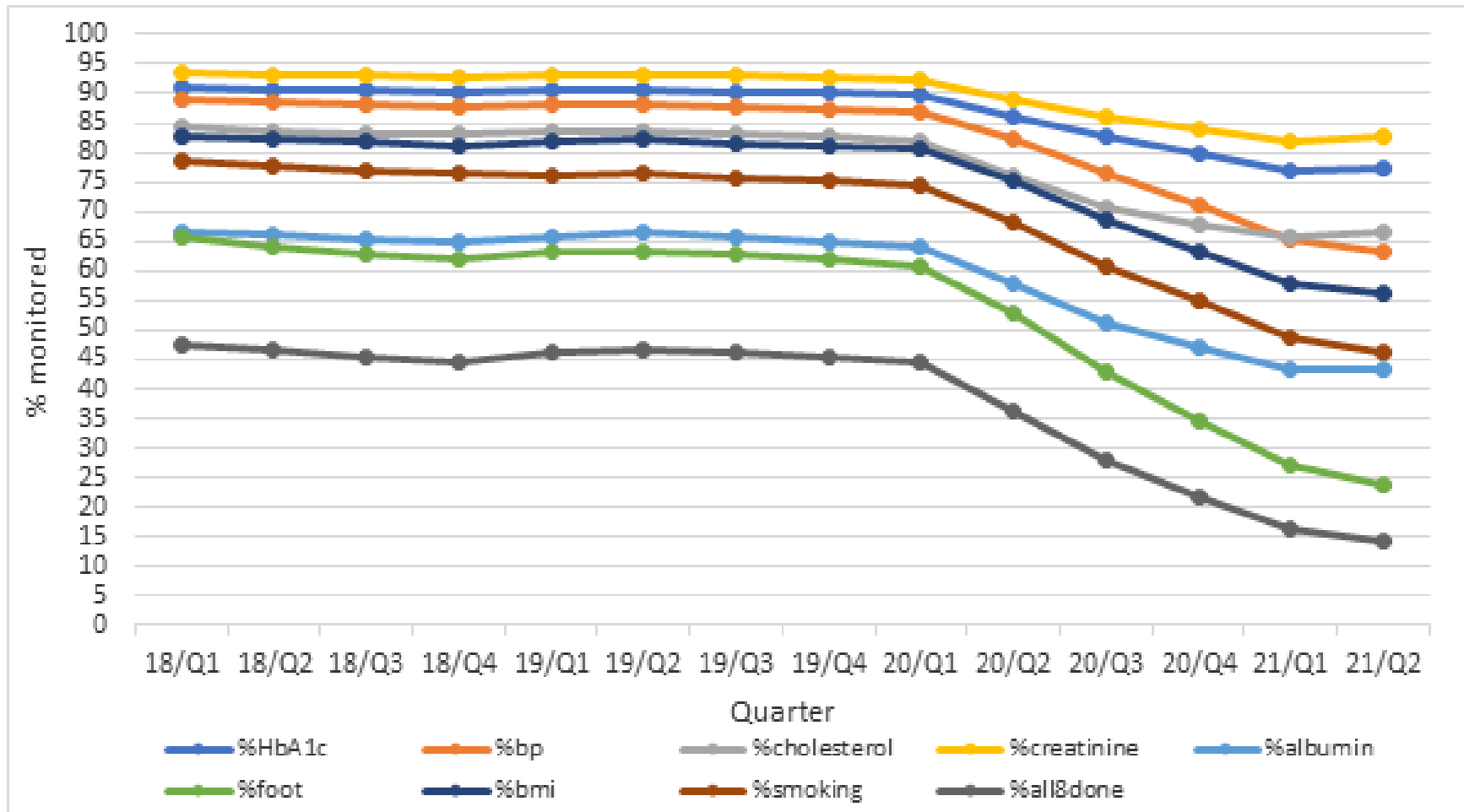
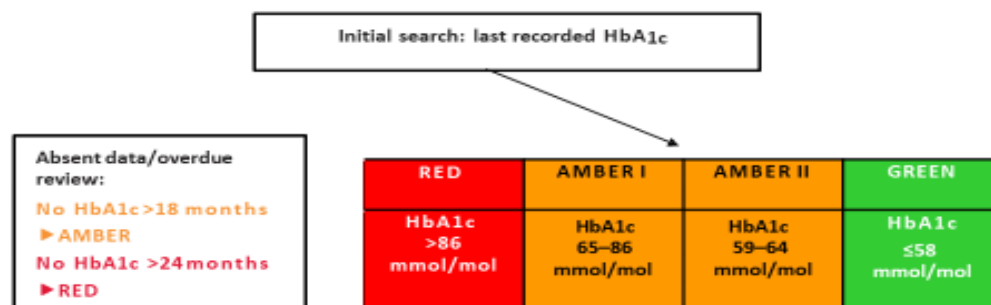


Diagram 1. Stratifying prioritisation groups (Adapted from the ABCD recommendations for triage of patients during Covid Recovery<sup>1</sup>)

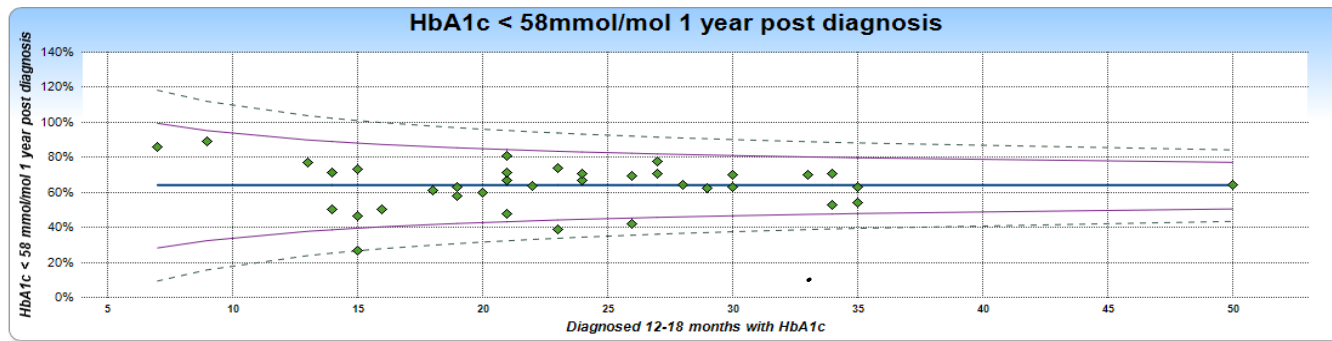


ADDITIONAL SEARCHES on amber/green groups to identify risk factors that may alter risk category and prioritisation (based on Risk factors [see Box B])<sup>2</sup>

|   |  |  |
|---|--|--|
| Blood pressure:   | ≥160/100 mmHg<br>► RED   | 141/81–159/99 mmHg<br>► AMBER  |
| Diabetes complication:  | Retinopathy/High-risk foot<br>► RED  |  |
| CKD:  | eGFR <45 mL/min/1.73 m <sup>2</sup><br>► RED   | eGFR 45–60 mL/min/1.73 m <sup>2</sup><br>► AMBER   |
| CVD/HF/stroke:<br>Assess CV risk factors to decide if ► RED or ► AMBER category.<br>For example, may need additional therapy: | Not on statin but established CVD (excl. haemorrhagic stroke)<br>► RED   | Not on statin despite ≥40 years<br>► AMBER   |
| BMI:  | ≥40 kg/m <sup>2</sup><br>► RED   | ≥30 kg/m <sup>2</sup><br>► AMBER   |
| Other Risk Factors:   | Planning Pregnancy<br>Recent admission in last 12 months (Diabetes or acute CV event)<br>HbA1c <48mmol/mol in Frailty and on sulphonylurea or insulin<br>► RED | Frailty/Cognitive Impairment<br>Requiring additional support<br>e.g Significant mental health illness<br>Learning disability<br>BAME Groups<br>► AMBER |

# USING THE DASHBOARD TO PRIORITISE RECALL

Funnel Plot to Identify Outliers



Pathways of Care: 1 Glycaemic Control

Measure: 1.2 HbA1c < 58mmol/mol 1 year post diagnosis

| Domains                              | Q1/20<br>as at 04-Apr-2020 21:18 |          | Q2/20<br>as at 04-Jul-2020 21:37 |          | Q3/20<br>as at 04-Oct-2020 02:40 |          | Q4/20<br>as at 02-Jan-2021 18:15 |          |
|--------------------------------------|----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|----------------------------------|----------|
|                                      | Percentage                       | Feedback | Percentage                       | Feedback | Percentage                       | Feedback | Percentage                       | Feedback |
| Bearsden/Mingavie Cluster            | 93.3%                            | 👍        | 88.2%                            | 👎        | 73.3%                            | 👎        | 60%                              | 👎        |
| Eastwood 2 Cluster                   | 90.9%                            | 👍        | 81.8%                            | 👍        | 60%                              | 👍        | 71.4%                            | 👎        |
| NW - Dumbarton Road Corridor Cluster | 86.2%                            | 👍        | 79.2%                            | 👍        | 80%                              | 👍        | 61.1%                            | 👎        |
| Inverclyde East Cluster              | 85.7%                            | 👍        | 71.4%                            | 👍        | 57.1%                            | 👎        | 47.6%                            | 👎        |
| West Renfrewshire 2 Cluster          | 82.1%                            | 👎        | 88%                              | 👍        | 50%                              | 👍        | 26.7%                            | 👎        |
| NW - A Cluster                       | 81.8%                            | 👎        | 75%                              | 👎        | 50%                              | 👎        | 71.4%                            | 👎        |
| NW - Hyndland and West End Cluster   | 81.8%                            | 👍        | 81%                              | 👍        | 66.7%                            | 👎        | 63.2%                            | 👎        |

# COMPARE CLUSTER DATA



SCI-Diabetes - Dashboard

https://sci-diabetes1.mhs.scot.nhs.uk/sci-diabetes1/dashboard/ManageDashboard.aspx

Dashboard

Step 1: Select Dashboard: Diabetes Care

Step 2: Select Criteria - Data view: Latest Cohort: Type 2 & Other 18+ Main domain: S0070 - Greater Glasgow and Clyde - 49144 - DR I M MACDONALD & PTNRS Comparator domain: S0070 - Greater Glasgow and Clyde

Step 3: View Selected Dashboard:

Step 4: View Measure of Care - 1.2 - HbA1c < 58mmol/mol 1 year post diagnosis

Run-rate Graph

### HbA1c < 58mmol/mol 1 year post diagnosis

Calculation

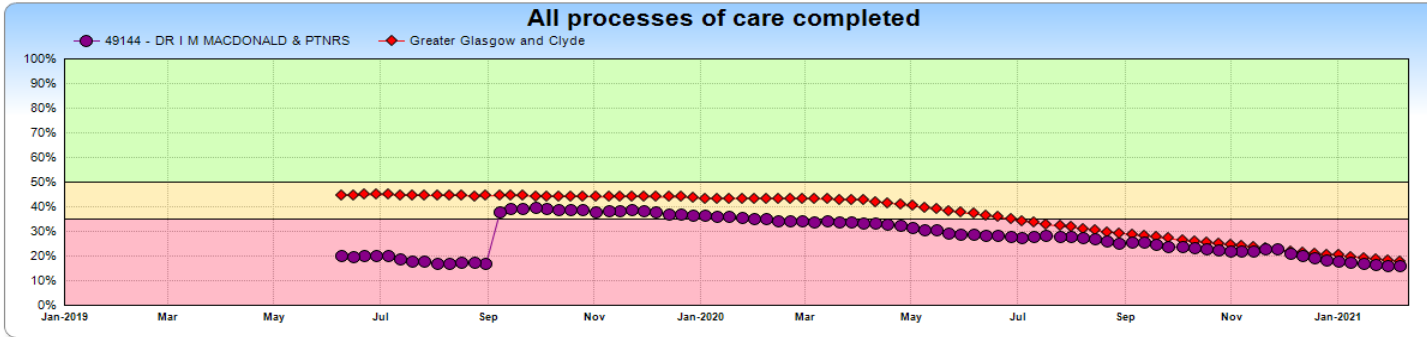
| HbA1c < 58mmol/mol 1 year post diagnosis  | 49144 - DR I M MACDONALD & PTNRS<br>as at 06-Feb-2021 19:05 | Greater Glasgow and Clyde<br>as at 06-Feb-2021 19:05 |
|---|---|--|
| Diagnosed 12-18 months with HbA1c         | 8   | 893  |
| HbA1c < 58 mmol/mol 1 year post diagnosis | 5   | 567  |
| Measure of Care                           | <b>62.5%</b>  | <b>63.5%</b>   |
| Standard of care met                      | < 70%   | < 70%  |
| Trend over the last 12 months             | Trend -4.37 percent/month                                   | Trend -0.96 percent/month                            |

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MONITOR TRENDS

Run-rate Graph



Calculation

| All processes of care completed                                  | 49144 - DR I M MACDONALD & PTNRS<br>as at 06-Feb-2021 19:05 |                           | Greater Glasgow and Clyde<br>as at 06-Feb-2021 19:05 |                           |
|--|---|---------------------------|--|---------------------------|
| Patient cohort in the domain.                                    | 516   |                           | 59913  |                           |
| All required process of care completed within required timescale | 81  |                           | 10620  |                           |
| Measure of Care  | 15.7%   |                           | 17.7%  |                           |
| Standard of care met   | < 35%   |                           | < 35%  |                           |
| Trend over the last 12 months                                    | 👎   | Trend -1.49 percent/month | 👎  | Trend -2.27 percent/month |

Actions Available

Include patient contact details in download list.

| What do you want to see? | Number of Patients | Actions |
|--------------------------|--------------------|---------|
|--------------------------|--------------------|---------|

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# PROCESSES OF CARE

SCI-Diabetes - Dashboard

https://sci-diabetes1.mhs.scot.nhs.uk/sci-diabetes1/dashboard/ManageDashboard.aspx

Dashboard

Actions Available

Include patient contact details in download list.

| What do you want to see?   | Number of Patients | Actions                 |                          |
|--|--------------------|-------------------------|--------------------------|
| <b>Education</b>   |                    |                         |                          |
| Attended structured education  | 2                  | <a href="#">Display</a> | <a href="#">Download</a> |
| Participated and completed structured education  | 2                  | <a href="#">Display</a> | <a href="#">Download</a> |
| Participated but did not complete structured education   | 0                  | <a href="#">Display</a> | <a href="#">Download</a> |
| No record of attending structured education to date  | 514                | <a href="#">Display</a> | <a href="#">Download</a> |
| Declined structured education  | 0                  | <a href="#">Display</a> | <a href="#">Download</a> |
| <b>Engaged (HbA1c and Retinal Screening)</b>   |                    |                         |                          |
| HbA1c recorded in the last 15 months and retinal screening recorded within the required timeframe    | 388                | <a href="#">Display</a> | <a href="#">Download</a> |
| HbA1c not recorded in the last 15 months or retinal screening not recorded within required timeframe | 115                | <a href="#">Display</a> | <a href="#">Download</a> |
| <b>18-25 HbA1c or DRS Not Recorded</b>   |                    |                         |                          |
| HbA1c or DRS Not Recorded SIMD1  | 7                  | <a href="#">Display</a> | <a href="#">Download</a> |
| HbA1c or DRS Not Recorded SIMD2  | 17                 | <a href="#">Display</a> | <a href="#">Download</a> |
| HbA1c or DRS Not Recorded SIMD3  | 16                 | <a href="#">Display</a> | <a href="#">Download</a> |
| HbA1c or DRS Not Recorded SIMD4  | 41                 | <a href="#">Display</a> | <a href="#">Download</a> |
| HbA1c or DRS Not Recorded SIMD5  | 34                 | <a href="#">Display</a> | <a href="#">Download</a> |
| <b>Processes of Care</b>   |                    |                         |                          |
| All required process of care completed within required timescale                                     | 81                 | <a href="#">Display</a> | <a href="#">Download</a> |
| Required process of care not all completed within required timescale                                 | 435                | <a href="#">Display</a> | <a href="#">Download</a> |
| <b>My Diabetes My Way</b>  |                    |                         |                          |
| Registered on My Diabetes My Way   | 99                 | <a href="#">Display</a> | <a href="#">Download</a> |
| Actively using My Diabetes My Way  | 19                 | <a href="#">Display</a> | <a href="#">Download</a> |
| Not registered on My Diabetes My Way   | 417                | <a href="#">Display</a> | <a href="#">Download</a> |
| <b>Care Plan Summary</b>   |                    |                         |                          |
| Care Planning Summary used to support self management  | 13                 | <a href="#">Display</a> | <a href="#">Download</a> |
| No record of Care Planning Summary   | 503                | <a href="#">Display</a> | <a href="#">Download</a> |
| <b>Full History</b>  |                    |                         |                          |
| Full history for this measure of care  |                    | <a href="#">Display</a> | <a href="#">Download</a> |

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SEARCH POPULATION LISTS AND EXPORT TO SPREADSHEET

SCI-Diabetes - 1. Processes of care

https://sci-diabetes1.mhs.scot.nhs.uk/sci-diabetes1/mcnReportComparison/MCNQuarterlyComparison1.aspx

49144-DR I M MACDONALD & PTNRS

STATUS: GREEN

File transferred within last 24 Hours...

Main Menu | User | Help | Dashboard | Print | Default | Export CSV | Logout (ALI, Kashif)

Navigation < MCN Report Comparison > 1. Processes of care

MCN Report Comparison

- 1. Processes of care
- 2. HbA1c early control
- 3. HbA1c overall control
- 4. Current smokers
- 5. CVD indicators
- 6. Ulcer management
- 7. Eye screening
- 8. Renal disease
- 9. CSII therapy
- 10. BMI control
- 11. Education
- 12. Disengaged

**MCN Report Comparison - 1. Processes of care**

1. Percentage of people with diabetes who receive all recommended (up to 9) processes of care measurements for diabetes in the prior 15 months - adjusted for and presented in defined age ranges.

Annual assessment of the following processes of care is important to ensure effective screening for microvascular complications and assessment of cardiovascular risk factors. These include; weight (and BMI measurement), blood pressure, smoking status, HbA1c, urinary albumin test, serum creatinine, cholesterol level, retinopathy screening and foot risk stratification.

[View MCN Quarterly Report](#)

Include only patients whose main "Domain of Care" matches this domain.

Include Practice ID.

Click on a row to view the list of patients. The list will appear below.

[View Methodology](#) for calculation details.

| Categories for this measure  | DR I M MACDONALD & PTNRS<br>as at 10-Feb-2021 17:57:35 |              |    | Greater Glasgow and Clyde Q4/20<br>as at 1-Jan-2021 00:00:00 |              |      |
|--|--|--------------|----|--|--------------|------|
|  | Total  | Met Criteria |    | Total  | Met Criteria |      |
| Type 1 & Other Age 0-11 Receive all  | 1  | 100 %        | 1  | 252  | 95.6 %       | 241  |
| Type 1 & Other Age 12-17 Receive all   | 2  | 0 %          | 0  | 385  | 2.1 %        | 8    |
| Type 1 Age 18+ Receive all   | 41   | 19.5 %       | 8  | 6273   | 13.4 %       | 840  |
| Type 2 & Other Age 18+ Receive all   | 518  | 7.9 %        | 41 | 58899  | 12 %         | 7160 |
| Additional categories  |  |              |    |  |              |      |
| Patients who did not receive all age appropriate process of care (poc) measurements. |  |              |    |  |              |      |
| Type 1 & Other Age 0-11 POC incomplete   | 0  |              |    |  |              |      |
| Type 1 & Other Age 12-17 POC incomplete  | 2  |              |    |  |              |      |
| Type 1 Age 18+ POC incomplete  | 33   |              |    |  |              |      |
| Type 2 & Other Age 18+ POC incomplete  | 477  |              |    |  |              |      |

**Type 2 & Other Age 18+ POC incomplete**

| Patient ID/CHI | Name           | Born              | HbA1c   | Weight (BMI) | Blood Pressure | Smoking Status | Retinopathy Screening | Urinary Albumin Test | Creatinine | Total Cholesterol | Foot risk |
|----------------|----------------|-------------------|---------|--------------|----------------|----------------|-----------------------|----------------------|------------|-------------------|-----------|
| 0101295219     | ABDUL MOHAMMED | 01-Jan-1929 (92y) | Not Met | Not Met      | Not Met        | Not Met        | Not Met               | Not Met              | Met        | Not Met           | Not Met   |
| 1006575405     | ASHRAF HASSEEN | 10-Jun-1957 (63y) | Met     | Met          | Met            | Met            | Met                   | Met                  | Met        | Met               | Not Met   |
| 1210555433     | ABDUS MOHAMMED | 12-Oct-1955 (65y) | Met     | Met          | Met            | Met            | Not Met               | Met                  | Met        | Met               | Met       |
| 2003818359     | ANMAD ABBAS    | 20-Mar-1981 (39y) | Met     | Not Met      | Not Met        | Not Met        | Not Met               | Not Met              | Met        | Not Met           | Not Met   |
| 1504786149     | ANMAD ANISH    | 15-Apr-1978 (42y) | Met     | Met          | Met            | Not Met        | Not Met               | Not Met              | Met        | Met               | Not Met   |
| 0101568851     | ANMAD DAUD     | 01-Jan-1956 (65y) | Met     | Met          | Met            | Met            | Not Met               | Met                  | Met        | Met               | Met       |

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System tray: 17:59 10/02/2021

PATIENT LISTS TO ENABLE PRIORTISATION

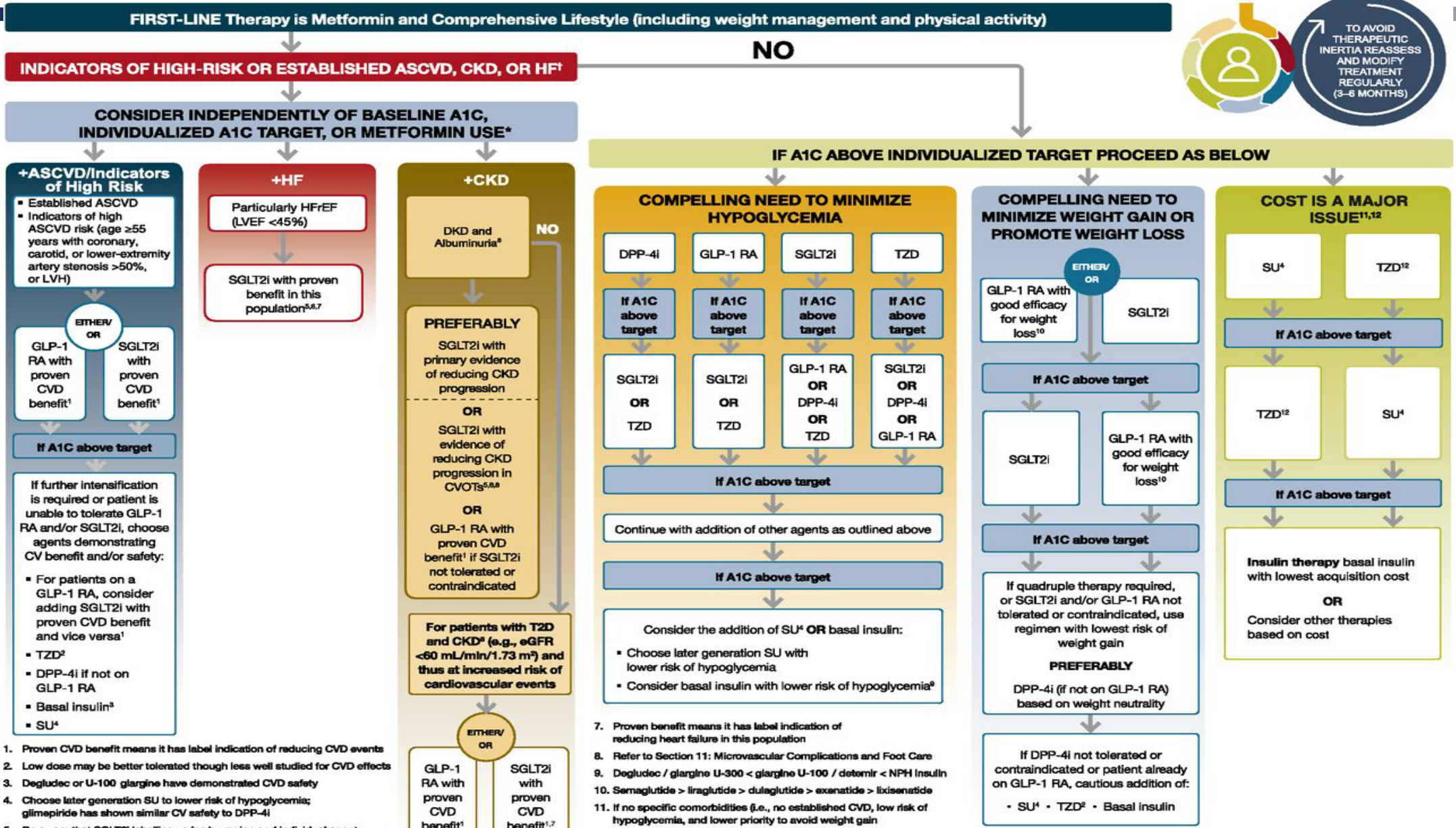
The screenshot shows a web browser window displaying a Vimeo video player. The video player interface includes a navigation bar at the top with the Vimeo logo, menu items for Product, Solutions, Watch, and Pricing, a search bar, and buttons for Log in, Join, and New video. The video content area features a large title "SCI-Diabetes" and subtitle "DASHBOARD". Below this, the video title "PART 2: USING THE DASH BOARD" is displayed. A small logo for "SCI-Diabetes" is visible in the bottom right corner of the video frame, along with the text "SCI-DIABETES TEAM 2019.1".

Below the video player, the video's metadata is shown: "SCI-Diabetes Dashboard Part 2 - Using the Dashboard", "1 year ago | More", and a "Follow" button for the channel "SCI-Diabetes". There are also icons for likes, shares, and comments, and a "Share" button.

At the bottom of the browser window, a Windows taskbar is visible with various application icons and system tray information including the date "12/02/2021" and time "23:02".

EASY TO FOLLOW VIDEO TUTORIALS ON VIMEO

# ADA/EASD Professional Practice Committee (PPC) adaptation of Davies et al.



- Proven CVD benefit means it has label indication of reducing CVD events
- Low dose may be better tolerated though less well studied for CVD effects
- Degludec or U-100 glargine have demonstrated CVD safety
- Choose later generation SU to lower risk of hypoglycemia; gliclazide has shown similar CV safety to DPP-4i
- Be aware that SGLT2i labelling varies by region and individual agent with regard to indicated level of eGFR for initiation and continued use
- Empagliflozin, canagliflozin, and dapagliflozin have shown reduction in HF and to reduce CKD progression in CVOTs. Canagliflozin and dapagliflozin have primary renal outcome data. Dapagliflozin and empagliflozin have primary heart failure outcome data.

- Proven benefit means it has label indication of reducing heart failure in this population
- Refer to Section 11: Microvascular Complications and Foot Care
- Degludec / glargine U-300 < glargine U-100 / detemir < NPH Insulin
- Semaglutide > liraglutide > dulaglutide > exenatide > lixisenatide
- If no specific comorbidities (i.e., no established CVD, low risk of hypoglycemia, and lower priority to avoid weight gain or no weight-related comorbidities)
- Consider country- and region-specific cost of drugs. In some countries TZDs are relatively more expensive and DPP-4i are relatively cheaper.

† Acted on whenever these become new clinical considerations regardless of background glucose-lowering medications.

\* Most patients enrolled in the relevant trials were on metformin at baseline as glucose-lowering therapy.

# OBESITY AND /OR CV DISEASE

IF KNOWN CV DISEASE, CHOOSE SGLT2I OR GLP1 RA WITH PROVEN CV BENEFIT.

\*ALTERNATIVE TO METFORMIN IF CONTRAINDICATED OR NOT TOLERATED



|             |                  |   |   |              |
|-------------|------------------|---|---|--------------|
| FIRST LINE  | <u>METFORMIN</u> | *SU   | <i>*SGLT2i (if BMI&gt;30 or CV disease)</i> |              |
| SECOND LINE | <u>SGLT2i</u>    | SU  | DPP4i                                       | Pioglitazone |
| THIRD LINE  | <u>GLP1 RA</u>   | 3 <sup>rd</sup> agent from 2 <sup>nd</sup> line | O.D. insulin                                |              |

**B - INTENSIFICATION**



**A+C - MONITORING**

Target HbA1c achieved (eg <53 mmol/mol)  
Arrange 6-12 monthly HbA1c  
If HbA1c above target, back into Rx algorithm

1<sup>st</sup> line agent  
Arrange 3/12 HbA1c

Emphasise the benefits of achieving and maintaining healthy BMI

2<sup>nd</sup> line agent  
HbA1c 3/12

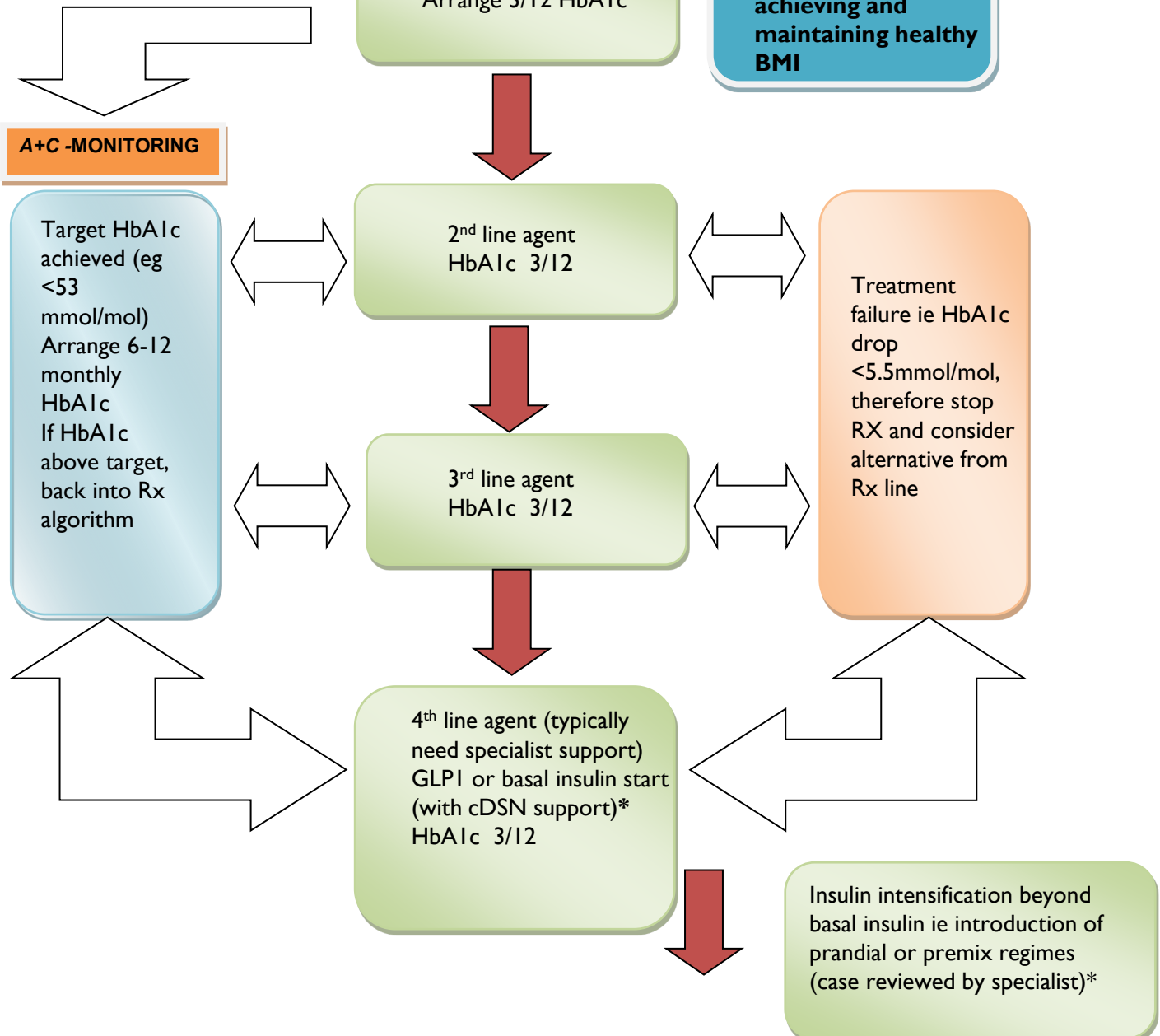
Treatment failure ie HbA1c drop <5.5mmol/mol, therefore stop RX and consider alternative from Rx line

3<sup>rd</sup> line agent  
HbA1c 3/12

4<sup>th</sup> line agent (typically need specialist support)  
GLPI or basal insulin start (with cDSN support)\*  
HbA1c 3/12

Insulin intensification beyond basal insulin ie introduction of prandial or premix regimes (case reviewed by specialist)\*

\* consider referral to specialist dietician when commencing insulin





## **NEXT STEPS.....**

- **FAMILIARISE/USE SCI-DIABETES**
- **QIA: Audit, Student/ST projects/ Appraisal**
- **PRIORITISE RECALL: High HbA1c, CV disease, DKD, “At risk”**
- **PRACTICE “MDT”: Admin, Practice Nurse, GP, Pharmacist  
?Role for HCAs + “non-experts”**
- **“CTACs / Monitoring Hubs” in time may allow more time to  
focus on mangement**



THANK YOU



SCI-Diabetes

**NHS**  
Greater Glasgow  
and Clyde