

# Looking for intern with top R / R shiny skills

The SCQM Foundation runs national cohorts to collect data on inflammatory rheumatic diseases (Rheumatoid Arthritis, axial Spondyloarthritis and Psoriatic arthritis). The data collection is performed via a user friendly online database with extensive (interactive) feedback on a per patient level. This is used by Rheumatologist and their patients for the long-term patient / therapeutic management. The collected data can be used in a pseudo-anonymized way for research. See [www.scqm.ch](http://www.scqm.ch) for short information videos about SCQM.

A small group of statisticians is in place in the SCQM with the following main tasks 1) provide research support to rheumatologists working with SCQM data 2) report on SCQM data for sponsors and other stakeholders and 3) manage and support further development of the SCQM online database.

The aim of the position (related to above mentioned task 2) is to update the current static reporting (pdfs generated with Sweave) and prepare the transition of the reporting into a web-based interactive tool for SCQM sponsor companies (see figure). A proof of concept containing a first table and some additional functionalities is available in flexdashboard (based on R shiny). Depending on the profile of the intern, some statistical aspects (primarily prediction models) may be integrated into the interactive reporting platform project. If the intern has the necessary IT development skills, work on the end-to-end digitisation from the SCQM database to the web-site can be included into the scope of this internship.

Duration: 6 months

Pensum: Ideally 100% but a part-time (longer-term) position would also be possible.

Have we wakened your interest? Please email to [almut.scherer@scqm.ch](mailto:almut.scherer@scqm.ch)

Telefon: 043 268 5577

Graph: Goals of the SCQM interactive reporting internship

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<ul style="list-style-type: none"> <li>▪ quartalsweise</li> <li>▪ unidirektional</li> <li>▪ Keine benutzerdefinierte Optionen</li> </ul>	<ul style="list-style-type: none"> <li>▪ jederzeit/ monatlich</li> <li>▪ Interaktiv</li> <li>▪ Benutzerdefinierte Optionen</li> </ul>																																			
<p><b>Quarterly Report 18.2</b> Rheumatoid Arthritis Report: 2018-08-01 REPORT WITH DATABASE OF 2018-08-02</p> <p><b>SCQM Foundation</b> Swiss Clinical Quality Management in Rheumatic Diseases — National Cohort —</p> <p><b>1 Introduction</b> The information contained in this report is intended for internal use only. On internal reproduction of any of the information contained in this report, the source should be cited as follows: 'State of report: Hospitalized data from the Swiss Clinical Quality Management in Rheumatic Diseases (SCQM) Foundation. No data-cleaning was performed for the data used to fill this report.' An overview legend of all variables displayed in the tables of this report can be found at the end of the report (Slide 28).</p> <p>The starting of the columns follows the structure: last two digits of the year, then a '1' followed by the number of the respective quarter. The columns of the table display the information for quarter 17 Q3 (starting 2017-01-01) up to 18 Q2 (ending 2018-06-30).</p> <p><b>2 Inclusion and visits to the SCQM RA cohort</b></p> <table border="1"> <thead> <tr> <th></th> <th>17 Q1</th> <th>17 Q2</th> <th>17 Q3</th> <th>17 Q4</th> <th>18 Q1</th> <th>18 Q2</th> </tr> </thead> <tbody> <tr> <td>Number of patients with visit</td> <td>1385</td> <td>1334</td> <td>888</td> <td>935</td> <td>846</td> <td>872</td> </tr> <tr> <td>Number of visits</td> <td>1317</td> <td>1300</td> <td>949</td> <td>975</td> <td>902</td> <td>908</td> </tr> <tr> <td>— of which inclusions</td> <td>98</td> <td>103</td> <td>85</td> <td>87</td> <td>79</td> <td>88</td> </tr> <tr> <td>— of which with biologic</td> <td>33</td> <td>37</td> <td>35</td> <td>36</td> <td>31</td> <td>35</td> </tr> </tbody> </table> <p>Table 1: Overview of data values for the RA database indicated per quarter. The total number of visits, the number of different patients for whom there was a visit, the number of inclusions and the number of inclusions after which a biologic was started (within 90 days) is displayed for the indicated time periods.</p> <p>In this first section, we give an overview of the data values for the RA cohort. The first row displays the total number of RA patients with visits during the indicated period. Since some patients have more than one visit per quarter, we also show the number of visits in the respective period. The first row displays the number of inclusions, which is a subset of the number of visits shown in row 2, e.g., in quarter 17 Q3, 98 of the total of 1385 visits for patients with RA were inclusion visits.</p> <p><b>3 Biologic therapies in the RA cohort</b></p> <p>In this section, the number of patients on therapy and the number of patients who initiated and/or discontinued a biologic treatment, are listed. The numbers displayed here are not static and will all be updated in the next quarterly report. This is because one third of our data is sent to us on paper forms, that are digitized in our office. These paper forms often arrive at the SCQM with a considerable delay. More importantly, changes in treatments are often reported at a much later time-point than when they occurred. For example, when a rheumatologist only starts with partly controls, he will, in the context of a yearly control, report medication changes of the next preceding year.</p> <p>Quarterly Report 2 of 25</p>		17 Q1	17 Q2	17 Q3	17 Q4	18 Q1	18 Q2	Number of patients with visit	1385	1334	888	935	846	872	Number of visits	1317	1300	949	975	902	908	— of which inclusions	98	103	85	87	79	88	— of which with biologic	33	37	35	36	31	35	<p><b>SCQM data summary</b></p> <p><b>Medication flows</b></p> <p><b>Table download</b></p> <p><b>Interactive tables/ graphs</b></p>
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**SCQM – The Swiss reference platform for research and quality management in rheumatology**