SOA

Surgical outcomes application

Overview

The Surgical Outcomes Application (SOA) is meant to be used by cardiac surgeons, to document their surgical outcomes. These outcomes are available in real time and completely confidential. These outcomes are owned by the surgeon and independent of the hospital where the surgeon is currently working. Since we are only recording procedures there are no privacy concerns. This presentation highlights the features of the application and this presentation gives a short guided tour of the application.

Features of the SOA

1 Real time outcomes, presented with VLAD graphs. Helpful statistics featuring graphs of caseload and casemix among others.

3 Personalized procedure reports that facilitate and speed up the writing of procedure reports.

2 Connection with online valve inventory.

4 Battle proven in cardiac surgery practice. Over 20 years of continuous development and refinement.

Reasoning behind the SOA application

Surgical outcomes are important for your surgical career.

Reasoning behind the SOA application

You have 2 choices, let your outcomes be calculated by the administrators in your current hospital or

Reasoning behind the SOA application

Take control of your outcomes and use the SOA application. Obviously, this last choice is better because

Reasoning behind the SOA application

You are in a better position to gauge the preoperative risk, which directly influences the surgical outcome. And the uneventful continuation of your career.

Reasoning behind the SOA application

The SOA application takes the administrative pain out of the outcomes administration because it generates helpful statistics and sophisticated procedure reports which can be fully adapted by you to your preference. You will enjoy using it.

Reasoning behind the SOA application

Let's have a look

The main page. You have to login to do anything with the application.
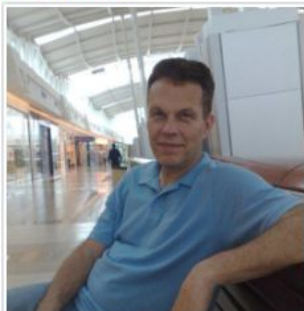
The main page now loggedIn

Followed by the profile page.

The profile page lets you adjust a couple of things.

Most important is the ability to switch hospitals.

The selected hospital displays all your procedures

Click on the details button for procedure details

List of procedures in: Amphia

Add Procedure

ID	Completed	Procedure	Date	
39	No	CABG lima and radial and VSM	12/12/19	Details
32	Yes	CABG lima and VSM	12/6/19	Details
31	Yes	CABG lima and VSM	12/6/19	Details
25	Yes	AVR	12/4/19	Details
20	No	Ross procedure	11/26/19	Details
19	Yes	AVR	11/25/19	Details
18	Yes	AVR MVP	11/24/19	Details
17	Yes	AVR MVR	11/23/19	Details
16	Yes	CABG lima and radial	11/23/19	Details
15	Yes	MVR	11/23/19	Details

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Procedures Statistics Configuration About

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Delete Details Euroscore Bypass details CABG details Postoperative details Operative report Discharge

CABG lima and VSM

Timing

| operation no: | **1** |
| date of surgery | 2019/12/06 |

start hr	11 ▾	start min	8 ▾	now
stop hr	0 ▾	stop min	0 ▾	now
Timing	Elective ▾

Procedure

inotropes	wo. inotropic support ▾
pacemaker	placed on the R atrium ▾
pericard	stayed open ▾
pleura	the L pleura opened ▾
Comments	

Employees

surgeon	**Marcel**	Anaesthesist	Graham ▾
Assistant	Allan ▾	Perfusionist	Tammi ▾
nurse#1	Alyce ▾	nurse#2	Antonia ▾

Type here to search

9:38 AM
NLD
1/17/2020

The procedure details are listed in the navigation bar and change depending on the type of procedure done. For example a CABG operation has a CABG details page, whereas a Valve procedure has no CABG details page

Subsequently you can preview the procedure report.

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Procedures　Statistics　Configuration　About

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| Operative details | Save as suggestion | Reset | Email | Save and Print |

Amphia

Cardiac Services

Cardiac dept.

Breda

Hospital number

Patient name:

Preop diagnosis

Clinical Unit: Cardiac Services

Operative Report

Operation:	CABG lima and VSM	Surgeon:	marcel
Operation date:	12/6/19, 11:08 AM	Assistant:	Allan
		Anaesthesiologist:	Graham
		Perfusionist:	Tammi

Positioning of the patient in supine position, iodine and draping.

The LIMA and saphenous grafts simultaneously harvested and the leg wound closed with an absorbable intracutaneous suture.

heparinized and pursestring sutures placed on the ascending aorta and right atrium. After checking the ACT, the

aortic and venous cannula introduced and the cardiopulmonary bypass started. The temperature of the patient

was taken down to degrees Centigrade. The aorta clamped and we used

 to arrest the heart.

The cardioplegia was frequently repeated during the cross clamp time.

After inspection of the coronary arteries we decided to do the following distal anastomoses:

Type here to search

9:41 AM
1/17/2020

After filling the details pages the surgeon concludes the procedure with the procedure report. These personalized reports are highly appreciated by the patient and family and reduce the administrative burden of the surgeon, because every surgeon has his/her own report for all the procedures that they regularly do. Every line in the green zone can be changed before the report is printed to pdf.

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soa3.azurewebsites.net/api/getPDF

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		Amphia Thoraxcentrum afd HartChirurgie Breda	Hospital number: Physician:Marcel National ID:n/a Patient name: report line 3

Operative report

Pre-operative diagnosis		Surgeon	Marcel
Operation	Cabg lima and vsm	Assistant	Allan
Operation date	12/6/2019	Anaesthesiologist	Graham
		Perfusionist	Tammi

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After the pdf of the report is printed or emailed the surgical administration is finished.

Before discharge of the patient the discharge details page needs to be completed. This also finishes the surgical outcomes administration for this procedure and will update the VLAD graph and mark the procedure as completed in the procedure list page.

This next VLAD graph shows only 14 procedures and is for demonstration only. You can look at your outcomes overall or select the hospital you are interested in. We can think of all kinds of interesting statistics, on the left side of the graph we see a couple of buttons that represent different database queries. These might be especially handy for surgeons in training.

The euroscore in 5 riskbands.
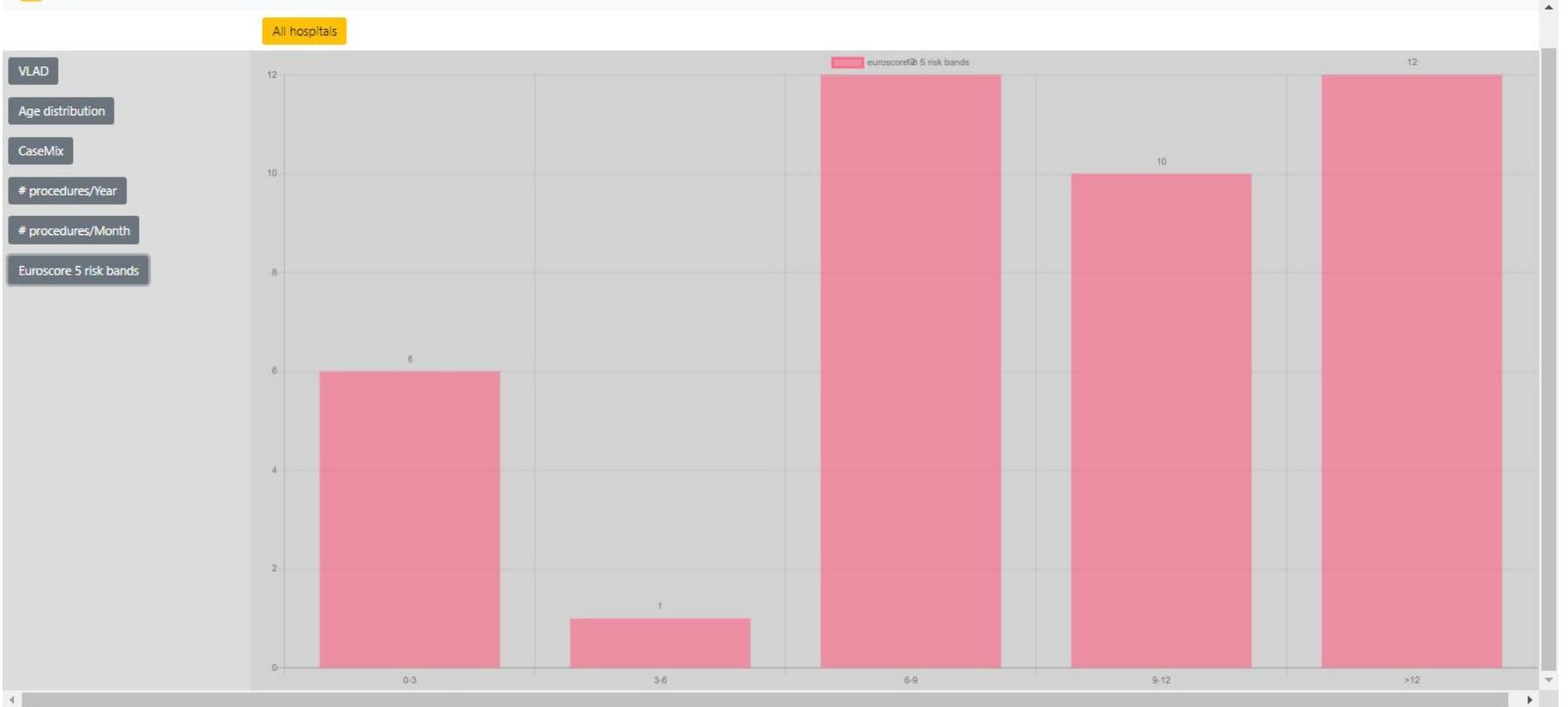
To make the application work correctly we incorporated a configuration section

soa3.azurewebsites.net/configuration

Procedures   Statistics   Configuration   About

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Change hospital details

Manage employees

Suggestions & reports

Refering physicians

A quick recap

This Surgical Outcomes Application (SOA) was designed with cardiac surgeons in mind.

SOA gives real time surgical outcomes and a very much reduced administrative burden.

 SOA was designed to be fully independent especially from the hospital where the surgeon works.

These procedure data are not anonymized, but anonymous from the start of collection therefore there are no privacy concerns.

The surgical data and outcomes are the property of the surgeon and can only be reviewed with the surgeon login credentials.

SOA is a perfect companion for the cardiac surgeon in training

Subscription service

This application is offered as a subscription service. This means that you do not need any on-premises computer hardware. The maintenance is done by us and you do not have a major financial commitment.

Pricing

Under consideration, we are thinking of a limited free service which will depend on advertisement and a paid subscription for heavy users.

The End

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