

“StatinCalc:” Promoting Cholesterol Guideline Adherence Via An Original Online Tool

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Background

- Statins and other lipid lowering therapies are indicated in primary and secondary prevention of atherosclerotic cardiovascular disease (ASCVD)
- A retrospective analysis of 1042 consecutive patient encounters at our urban health clinic found that 1 in 5 patients were not prescribed an appropriate intensity of statin with significant disparities in younger, Black patients, and those who solely met indication via 10-year ASCVD risk of $\geq 7.5\%$
- An improvement project was undertaken at our inner-city clinic that serves socioeconomically underserved populations

Methods

- Interventions were implemented over a 4.5 month period to close gaps between recommended guidelines and current practice
- StatinCalc.com, an interactive online tool, was created to determine appropriate statin based on indication (i.e. high risk ASCVD, clinical ASCVD), monitor for LDL-C reduction, and assess for adjunct therapies (i.e. ezetimibe)
- A link to a 10-year ASCVD risk calculator was integrated into the online tool
- Other interventions, such as reference tables, email reminders, physician didactic were also implemented

Results

- During the intervention time period of 4.5 months, StatinCalc.com had over 1300 pages viewed, with an average of 10 pages viewed daily
- On an average month, StatinCalc is being utilized for over 86 patient encounters

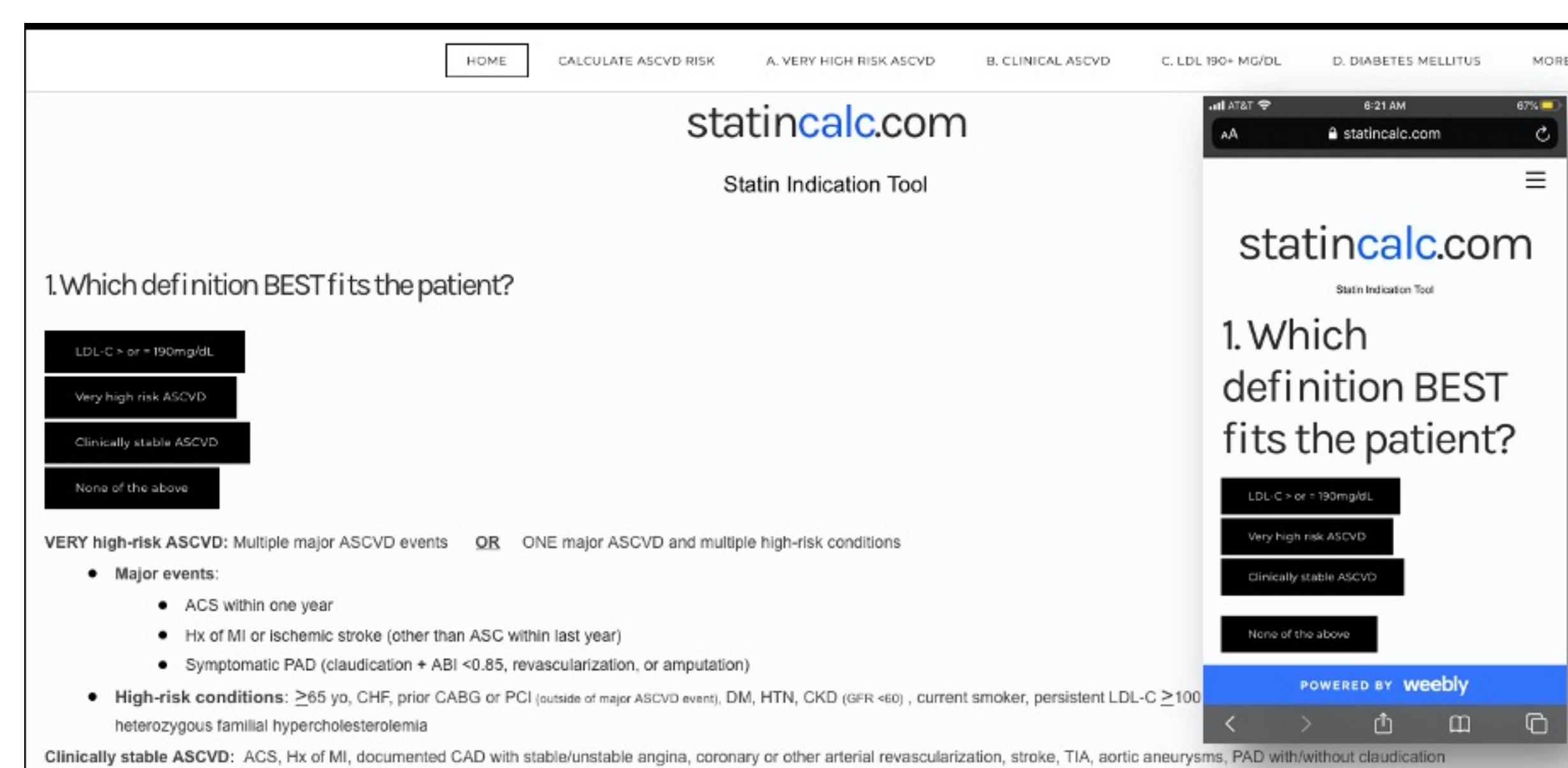
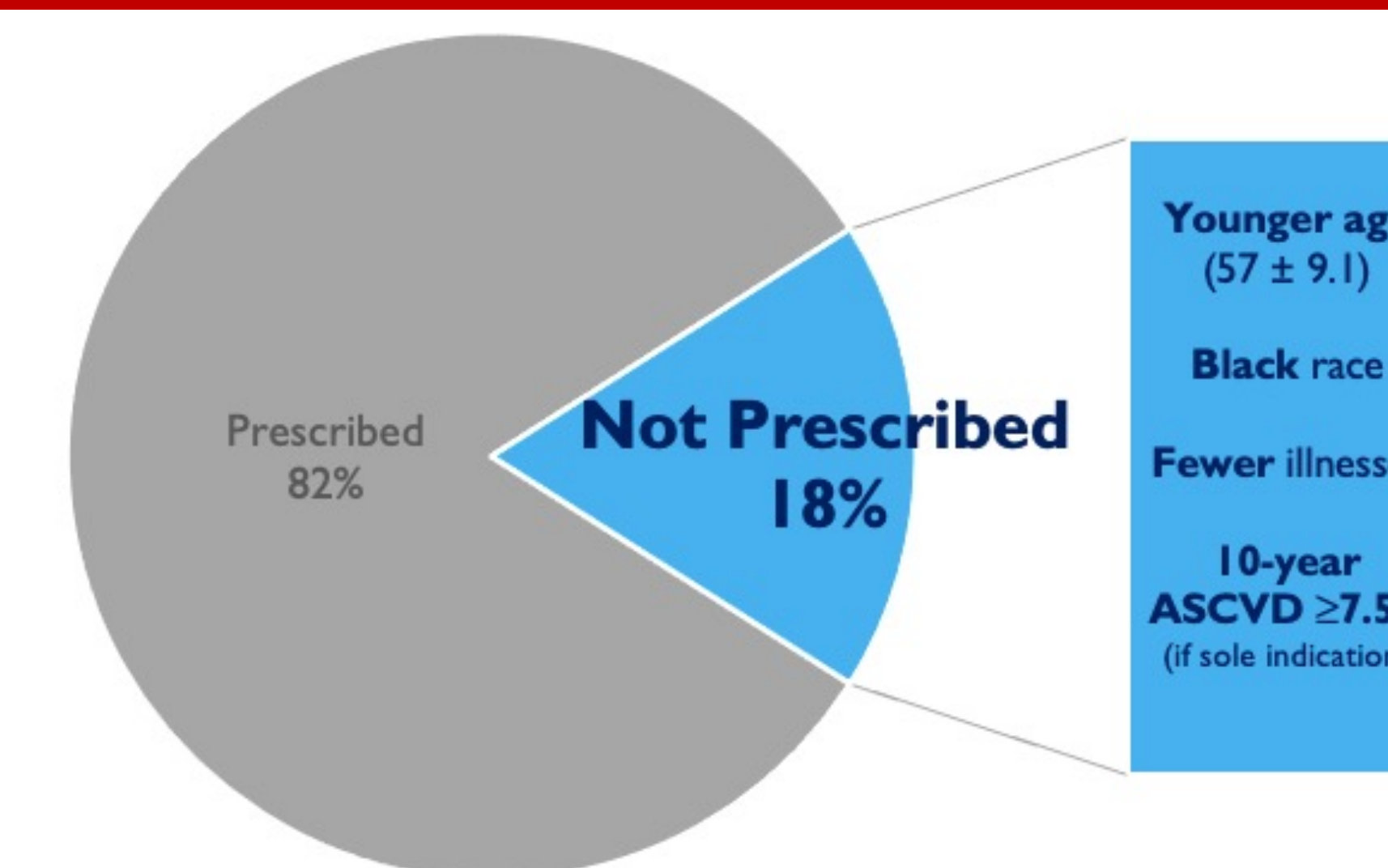


Figure 1: StatinCalc.com website screenshot

In order to increase statin prescription rates, **StatinCalc.com** and other interventions were successfully implemented in our clinic for the socioeconomically underserved.

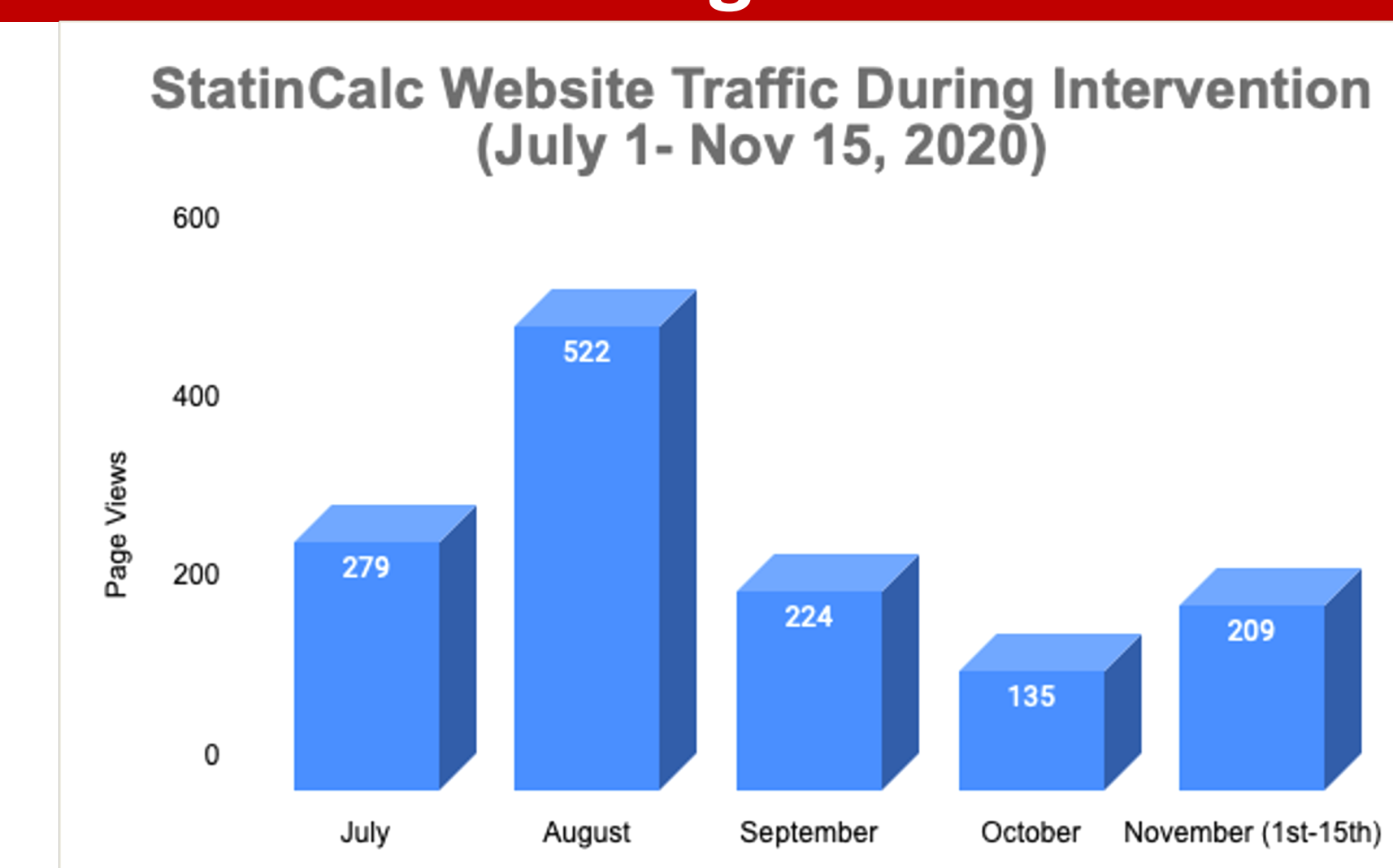
Preliminary data shows association with **increased prescription rates** of statins.

Figure 2



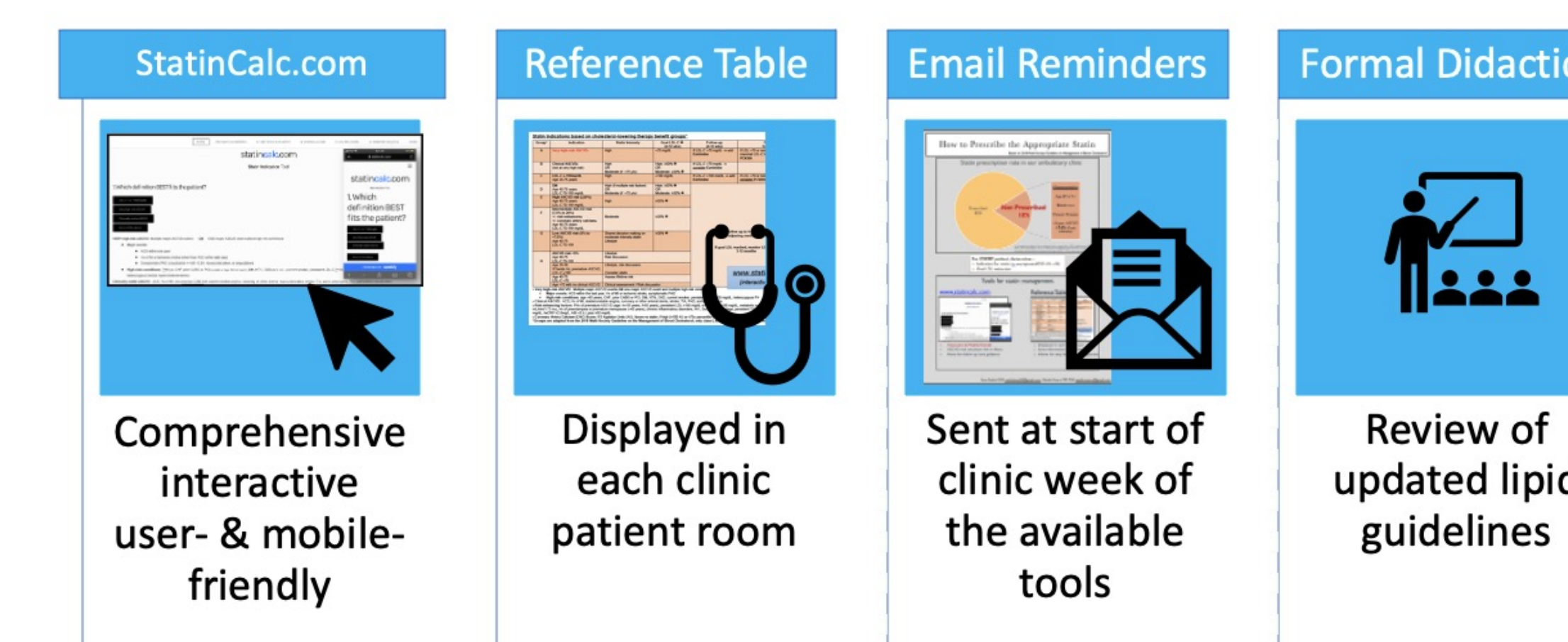
Statin prescription rate in our ambulatory clinic shared with physicians

Figure 3



Website traffic during the time of intervention

Figure 4



Summary of interventions implemented to promote cholesterol guidelines

Conclusion

- We successfully created StatinCalc as a tool to improve cholesterol guideline adherence and prescription patterns in our practice
- Preliminary data shows increased prescription rate of statins among those groups that were previously underprescribed (i.e. elevated 10-year ASCVD risk score)
- Limitations: Website access is public so traffic numbers may be falsely high