



## School of Medicine

## Introduction

- Group B streptococcus or streptococcus agalactiae is a gram-positive beta hemolytic streptococcus species which commonly colonizes the genitourinary tract of females and serves as a source for a variety of infections especially in women of child-bearing age.
- Although this reservoir contributes to a variety of infections such as maternal endometritis, neonatal sepsis and meningitis, group B strep endocarditis is increasing in frequency as source of infection in many non-pregnant women including rare manifestations of infective endocarditis. <sup>[6-8]</sup>
- Group B strep endocarditis is a rare occurrence and consists of the minority of endocarditis cases
  - □ Some data demonstrating an occurrence of 1.7% for all cases of bacterial endocarditis.<sup>[6]</sup>
  - □ Incidence of invasive GBS disease among nonpregnant women increased from 8.1 cases/100,000 population to 10.9 cases/100,000 population according to a population-based surveillance in the US from 2008-2016. <sup>[4,11]</sup>
- □ Risk factors for group B streptococcus endocarditis have been identified through literature review including malignant disease, diabetes, alcoholism, injection drug use, cirrhosis, and elective abortions.<sup>[6, 12-13]</sup>

## Purpose

• Our case presents an uncommon complication of a uterine leiomyoma with a concurrent rare presentation of *Streptococcus B* endocarditis in a previously asymptomatic 39-year-old nulliparous female.

## Methods/Literature Review

Literature search via the PubMed database and SCOPUS was performed for reported cases of infective endocarditis caused by GBS that were associated with necrotic uterine fibroids, leiomyomas, or pyomyomas.

- □ The search was restricted from 1985 March 2021.
  - The following key words were used in the search: 'endocarditis', 'group B streptococcus', 'Streptococcus agalactiae, 'uterine fibroids' 'leiomyoma', and 'pyomyomas'.
  - 11 cases of GBS endocarditis had been reported from 1985 to 2001 according to the review performed by Crespo<sup>[7]</sup>.
- Additional 5 cases of GBS endocarditis reported after 2001

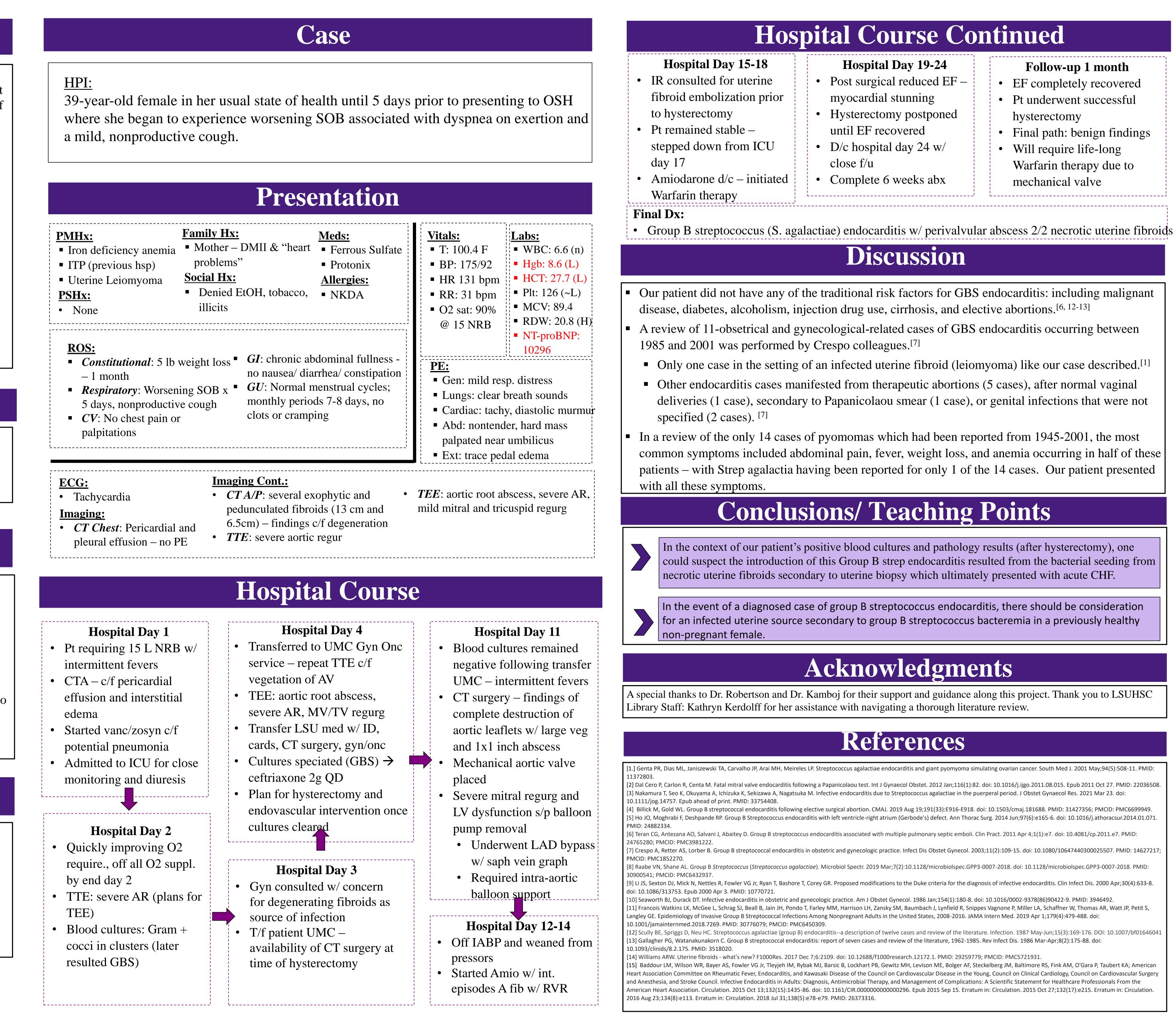
## Background

## **First Hospital Presentation:**

- Treated for atypical pneumonia and ITP
- Incidental finding of enlarged uterus on CT
- Endometrial biopsy benign pathology
- Treated with course of steroids (ITP) and levofloxacin (pneumonia)
- D/c plans for total abdominal hysterectomy at future date

# Group B Streptococcus infective endocarditis due to necrotic leiomyoma: a case report

Robert Quiring<sup>1</sup>, Jared Robertson M.D.<sup>2</sup> <sup>1</sup>School of Medicine, LSUHSC, New Orleans, LA <sup>2</sup>Department of Internal Medicine, LSUHSC, New Orleans, LA





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ЪF —	<ul> <li>Follow-up 1 month</li> <li>EF completely recovered</li> <li>Pt underwent successful hysterectomy</li> <li>Final path: benign findings</li> <li>Will require life-long Warfarin therapy due to mechanical valve</li> </ul>