Heart failure can involve multiple factors, but heart muscle scarring is thought to be an important contributing factor in up to two-thirds of patients with HFpEF. Additional mechanisms to consider are listed below:

- **Depression and anxiety more common in heart failure than cancer patients**
  - Depression and anxiety are rising, and they are results are preliminary.
  - A drug with a completely novel mechanism of action has shown some promising results in the treatment of heart failure with preserved ejection fraction, although the results are still preliminary.

- **Heart failure treatment market analysis by key players: Pfizer, Novartis, Merck**
  - When drug developers were forced to conduct cardiovascular outcomes trials for SGLT2 inhibitors, they found a surprise: the drugs created for type 2 diabetes (T2D) had strong benefits for heart failure.
  - In fact, smokers could benefit from SGLT2 inhibitors.

- **Congestive HF results in the activation of multiple compensatory mechanisms**
  - Aging of the heart contributes to diastolic HF as well. The general symptoms of congestive HF are listed below:

- **Beta-Glucan is a type of dietary fiber that may benefit heart failure**
  - The ACS study says: "Animal and human studies indicate that the levels of endogenous glutathione progressively decline with aging, and this decline is related to the development of heart failure."

- **Lower body temperature, along with anemia and heart failure, are symptoms of hypothyroidism**
  - "This is a self-defense mechanism to protect your body from freezing and conserve heat.

- **PS cell research is moving ahead quickly with promising applications for COVID-19, diseases affecting vision and muscular function, among others.**
  - The issue to this is that mass genetic modification of most of the cells of adults as simple as vaccination injection is currently a scientific question, but one that we need to start to answer.

- **Laura’s story**
  - Laura has a major interest in the cardiac aging lab at The University of Texas Health Science Center at Houston, where she leads a team of researchers studying the aging of the heart and its impact on heart failure.

- **Women with high amounts of testosterone have lower rates of heart failure**
  - Women with high amounts of testosterone have lower rates of heart failure, and this finding could help to explain why women have lower rates of heart failure than men.

- **Psilocybin helps alleviate PTSD in heart failure patients**
  - Psilocybin has been shown to be effective in alleviating PTSD in heart failure patients, and this finding could help to explain why women have lower rates of heart failure than men.

- **Switching off heart protein could protect against heart failure**
  - Scientists have found a new way to prevent heart failure by switching off a key protein that plays a role in the disease.

- **Erectile dysfunction may be a sign of heart failure**
  - It is well established that the aging heart progressively remodels towards a senescent phenotype, but alterations of cellular microstructure and their differences to the physiologically normal heart remain elusive.

- **Heart failure services, Lenox Hill Hospital, New York City; U.S. National Institutes on Aging, news release, May 16, 2021**
  - "Don't just say I'm fine!" vocal box shows story of heart failure in hopes of helping others
  - Depression and heart failure are frequently comorbid conditions, and the relationship between the two conditions is complex.

- **Cell findings take scientists closer to stopping clock on human aging**
  - The implications of this finding are significant, as it provides a new way to slow the aging process and potentially extend lifespan.

- **New cardiac rehabilitation interventions improve quality of life in hospitalized heart failure patients**
  - "A tailored cardiac rehab program improved function and quality of life in older heart failure patients suggested a new study."

- **Older patients hospitalized with acute heart failure who participated in a novel 12-week physical rehabilitation (rehab) program tailored to address their specific needs significantly benefit from tailored cardiac rehab program**
  - Older patients hospitalized with acute heart failure who participated in a novel 12-week physical rehabilitation (rehab) program tailored to address their specific needs significantly benefit from tailored cardiac rehab program.