

OCTOBER 2023 MONTHLY HBOT WEBINAR

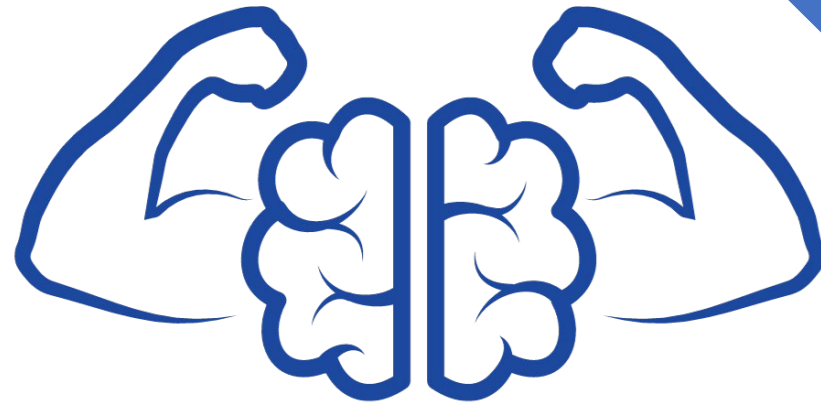
**Physiology of HBOT
for Each Indication
and When to
Consider
Continuation**



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Knowledge is Power



- How important is it to understand the physiological effects and understand the ‘what’ and ‘why’ in hyperbaric oxygen?

EXTREMELY

- An informed educated technician/technologist is the best way to assure patient adherence and provider buy-in that you are knowledgeable in the delivery of hyperbaric oxygen.
- And it makes a significant contribution to the team of care givers.

Understanding Hyperbaric Medicine

- If the patient is being treated for an approved diagnosis, are you aware of what and why for treatment?
- Understanding the rationale of hyper-oxygenations, angiogenesis, osteogenesis, and perfusion is key to understanding your responsibilities as a technician/technologist with the patient and the provider and care team.
- Likewise, it is paramount to compliance.



What is it

- Hyper-oxygenation: increased oxygen gradient hastens gas exchange. Ability to drive oxygen through barriers, extending the distance, reduces tissue hypoxia
 - (DFU, Osteo, STRI, ORN, ATPI)
- Angiogenesis: Enhancement and creation of new vessels from existing vessels
 - (DFU, Osteo, STRI, ORN)
- Osteogenesis: the production of new bone growth
 - Osteo, ORN, Crush Injury



How do we know if its working?

Neovascularization is the key to effectiveness of HBOT

Need 30-40 mmHgB oxygenation level (why we perform Vascular Assessment

- Angiogenesis typically seen at 10-14 treatments.
- Osteogenesis a little longer

HOW we know

- Buds of tissue granulation
- Reduction of edema
- Less or increased pain at site
- Collagen growing
- Graft looks better



Communication

- Sharing your knowledge with patients and providers will reassure them that they are in great hands.
- That reassurance will increase their compliance to their treatment program.
- Knowing that you are experienced can also help to ease their anxiety.



Professional Training, Knowledge and Experience

- Ask yourself, *“If the patient asked me how this treatment is beneficial to me and my wound?”* How would you answer this question?
- Professional training, knowledge, and experience are directly linked to helping the patient understand that being compliant is essential to “best care and practice”.
- The more education the patient has, the more apt they are to comply.



QUIZ

Question 1

1. How does hyperbaric work for a Wagner Grade 3 Diabetic Foot Ulcer?

Answer 1

1. How does hyperbaric work for a Wagner Grade 3 Diabetic Foot Ulcer?

IT WORKS BY PROMOTION OF ANGIOGENESIS AND OSTEOGENESIS

Question 2

1. When should continuation of treatment be discussed?

Answer 2

1. When should continuation of treatment be discussed?

AT EACH TREATMENT. THIS CREATES UNDERSTANDING AND BUILD CONFIDENCE FOR THE PATIENT.

Question 3

1. Define “Osteogenesis”

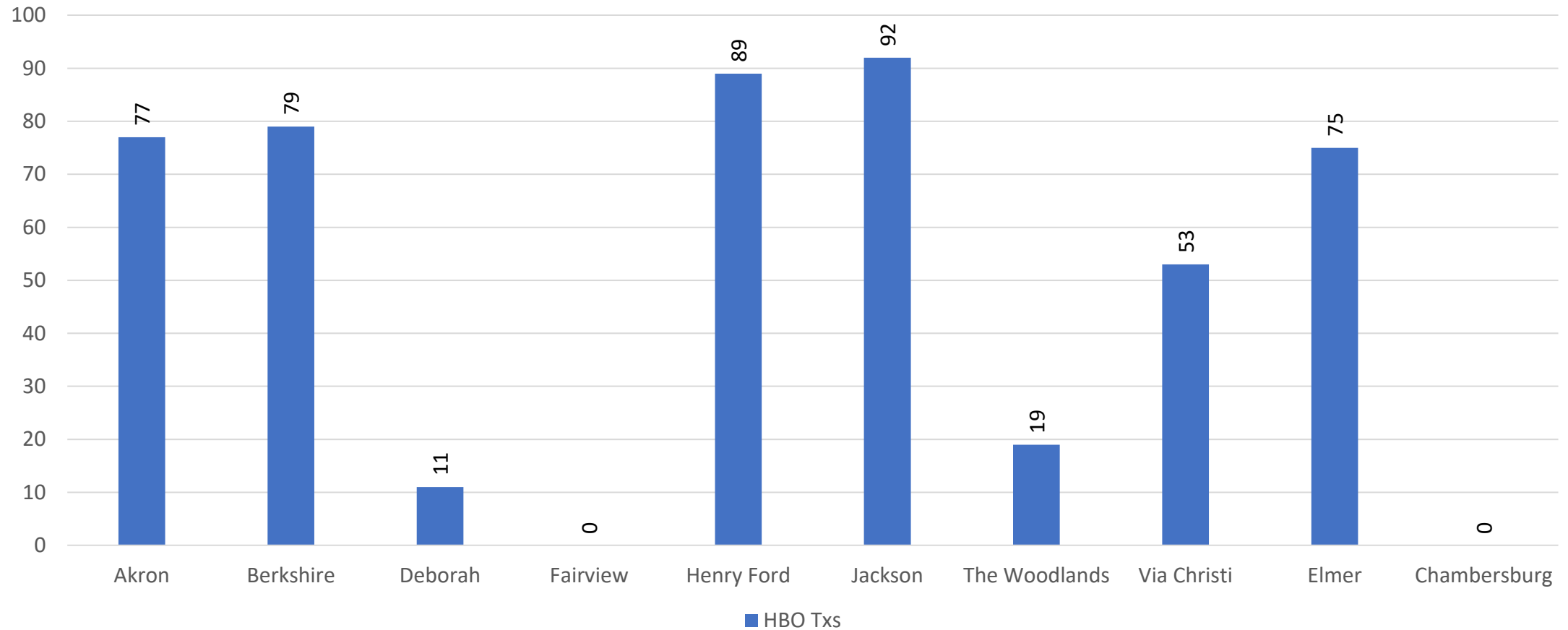
Answer 3

1. Define “Osteogenesis”

DEVELOPMENT AND FORMATION OF BONE



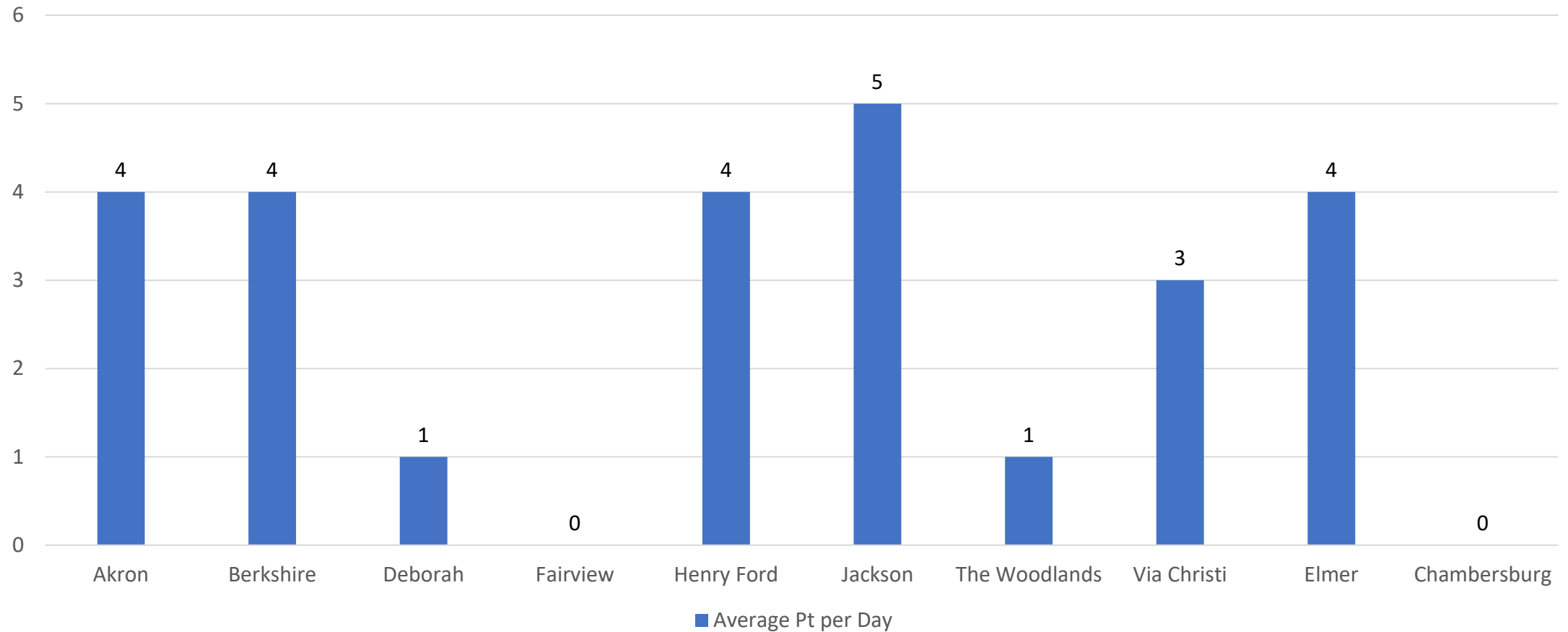
September 2023 – HBO Treatments



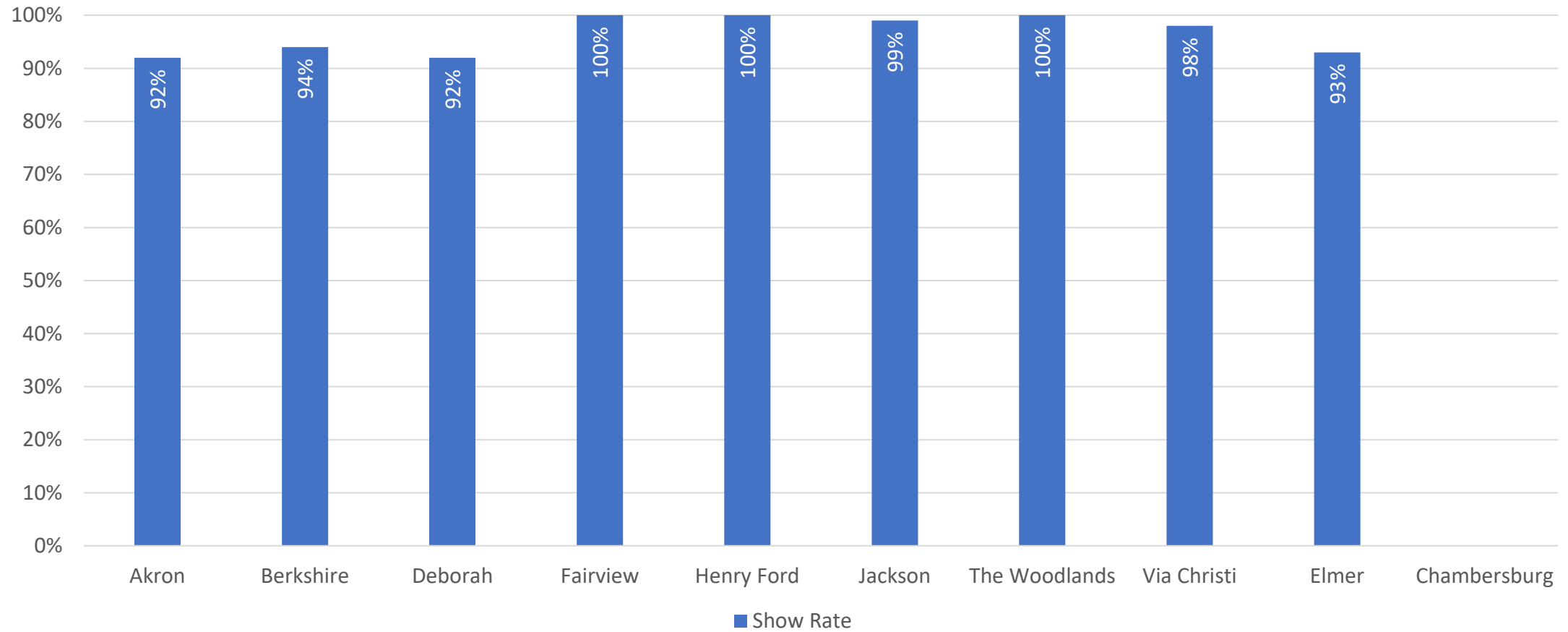
September 2023 – Average Daily Patient Volume

20 Business Days

SerenaGroup Average: 2 patients per day



September 2023 – HBO Show Rate



Think HBO

- October 2023 SerenaGroup Monthly Education
- Education yourself
- Know all the advanced modalities that are available to your patient
- Utilize HBO Techs to help educate the patients
- Saving Lives, Saving Limbs



THINK HBO

Hyperbaric oxygen therapy, or HBO, is a medical treatment that increases the amount of oxygen in the patient's blood, allowing oxygen to pass more easily through the plasma into the wounds to heal them.





November HBO Safety Webinar

TOPIC: Creating a Safe and Comfortable Environment

November 21, 2023

11amCST/12noonEST





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