



Limb Preservation Center: The New Frontier

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Disclosure

- ▶ **National Office Endovascular Labs LLC: President and CEO**

Background

- ▶ **There are about 600 Office based labs**
- ▶ **The care is fragmented**
- ▶ **There are more than 1000 wound care centers**
- ▶ **To provide comprehensive care multispecialty approach is needed**
- ▶ **In future payment will be made for Chronic disease management rather than episodic care**

Kalamazoo OBL Experience

Aortagram with runoff	871
Aortagram with intervention	1077
EVLT with or without micro.	1338
Fistulogram	610
Fistulogram with intervention	4610
IVC insertion	46
IVC removal	96
Microphlebectomy	169
Central Line exchange	522
Central line insertion	680
Central line removal	1314
Port exchange	8
Port insertion	201
Port removal	56
Venogram	86
Venogram with intervention	52
Total	11736

Mission

- ▶ **Prevent limb amputation while maximizing independence and mobility**

Goals

- ▶ **Provide all services under one roof**
- ▶ **Same day appointment**
- ▶ **Long term follow up**

Causes of Limb Loss

- ▶ **Diabetes**
- ▶ **Arterial ischemia**
- ▶ **Venous**
- ▶ **Trauma**
- ▶ **Congenital**
- ▶ **Other (cancer, infection, neuroma)**

Conditions Needing Treatment

- ▶ **Arterial**
 - ▶ **Claudication**
 - ▶ **Rest pain**
 - ▶ **Ulcer**
 - ▶ **Gangrene**
- ▶ **Venous**
 - ▶ **Ulcers**
 - ▶ **Insufficiency and obstruction**
- ▶ **Diabetic ulcer**
- ▶ **Trauma**
- ▶ **Others**

Essential Services

- ▶ **Essential services**
 - ▶ **Multidisciplinary team**
 - ▶ **Office based endovascular suite**
 - ▶ **Wound clinic**
 - ▶ **Vascular lab**
 - ▶ **Easy access to hospital**
 - ▶ **Rehabilitation**
 - ▶ **Vascular screening**
 - ▶ **Registry**

Multidisciplinary Team

- ▶ **Vascular surgeon (open and endovascular)**
- ▶ **Interventional Cardiologist or interventional radiologist working with a vascular surgeon**
- ▶ **Podiatrist**
- ▶ **Wound care specialist**
- ▶ **Infectious disease specialist**

Office Based Endovascular Lab

- ▶ **Only way to achieve rapid and timely endovascular intervention is in an office based endovascular lab**
- ▶ **Offers same day intervention**
- ▶ **Hospital systems are too cumbersome and expensive**

Wound Clinic/Center

- ▶ **Wound center that provides all modalities of wound treatment for dedicated management of all types of limb wounds**
- ▶ **Clinic patients will be followed by the wound center staff for consistency of treatment**

Vascular Lab

- ▶ **IAC certified vascular lab**
- ▶ **Easy access to lab**
- ▶ **Vascular lab registry**
- ▶ **Mobile lab for patient accessibility**
- ▶ **Vascular screening**

Access to Hospital

- ▶ **Admissions for intravenous antibiotics**
- ▶ **Open procedures**
- ▶ **Major debridement**
- ▶ **Reconstruction**
- ▶ **Emergencies**

Rehabilitation

- ▶ **After treatment patients need proper rehabilitation services**
- ▶ **In case of an amputation appropriate prosthesis**
- ▶ **Physical therapy**
- ▶ **Occupational therapy**

Desirable Services

- ▶ **Professional**
 - ▶ **Vascular medicine clinic**
 - ▶ **Cardiology**
 - ▶ **Plastic Surgery**
 - ▶ **Podiatry**
 - ▶ **Orthopedics**
 - ▶ **Rheumatology**
 - ▶ **Infectious disease**
 - ▶ **Neurology**
 - ▶ **Nephrology**

Desirable Services

- ▶ **Diabetic clinic**
- ▶ **Access to gym**
- ▶ **Social services**
- ▶ **Dietitian**

Vascular Medicine Clinic

- ▶ **For comprehensive management of risk factors**
 - ▶ **Diabetes**
 - ▶ **Hypertension**
 - ▶ **Hypercholesterolemia**
 - ▶ **Nicotine addiction**
 - ▶ **Obesity**
 - ▶ **Exercise**
 - ▶ **Coagulation disorders**
 - ▶ **Others**

Patient Satisfaction

- ▶ **Quick referral system**
- ▶ **Procedures to be performed in expedient manner**
- ▶ **Patient education**
- ▶ **Prevention**

Evaluation

- ▶ **Clinical exam**
- ▶ **Podiatry consultation**
- ▶ **Noninvasive vascular lab**
- ▶ **CT, MRI, radio nucleotide scan**
- ▶ **Angiogram**
- ▶ **Cultures**
- ▶ **Neurological exam**

Patient Management

- ▶ **Medical management of risk factors**
- ▶ **Podiatry management**
- ▶ **Debridement**
- ▶ **Treatment of infection**
- ▶ **Physical therapy and rehabilitation**

Advanced Therapy

- ▶ **Endovascular procedures**
 - ▶ **Angioplasty, stent, atherectomy**
- ▶ **Open procedures**
 - ▶ **Bypass**
 - ▶ **Endarterectomy**
- ▶ **Hybrid procedures**
 - ▶ **Bypass and endovascular**
- ▶ **Foot sparing amputations**
- ▶ **Reconstruction of deformed foot**
- ▶ **Grafting**
- ▶ **Thrombolysis**
- ▶ **Venous procedures**
 - ▶ **Ablation**
 - ▶ **Microphlebectomy**
 - ▶ **Dilatation and stenting**

Data

- ▶ **Registry to incorporate data from each center to improve care, publish and negotiate with payors**

Research

- ▶ **The centers should participate in national protocols of limb preservation**

Future

- ▶ **In a dynamic market the centers that innovate will succeed and do very well. The usefulness of OBL is now established. To improve care and convince the payer of quality care being rendered through outpatient centers a comprehensive approach is required in management of limb ischemia**
- ▶ **We have to move from the concept of managing critical limb ischemia to total management of limb ischemia**