

Baptist Health South Florida

## Scholarly Commons @ Baptist Health South Florida

---

All Publications

---

10-2017

### Navigating Transitions: IV Epoprostenol to oral Treprostinil

Michael Salinero

*South Miami Hospital*, michaelss@baptisthealth.net

Tina Hyman

*South Miami Hospital*, tinah@baptisthealth.net

Margarita Pallares

*South Miami Hospital*, MargaritPa@baptisthealth.net

Francisco Javier Jimenez-Carcamo

*Baptist Health South Florida*, javierj@baptisthealth.net

Follow this and additional works at: <https://scholarlycommons.baptisthealth.net/se-all-publications>

---

#### Citation

Salinero, Michael; Hyman, Tina; Pallares, Margarita; and Jimenez-Carcamo, Francisco Javier, "Navigating Transitions: IV Epoprostenol to oral Treprostinil" (2017). *All Publications*. 2426.

<https://scholarlycommons.baptisthealth.net/se-all-publications/2426>

This Conference Poster -- Open Access is brought to you for free and open access by Scholarly Commons @ Baptist Health South Florida. It has been accepted for inclusion in All Publications by an authorized administrator of Scholarly Commons @ Baptist Health South Florida. For more information, please contact [Carrief@baptisthealth.net](mailto:Carrief@baptisthealth.net).

# Navigating Transitions: IV Epoprostenol to oral Treprostinil



Michael Salinero RN, BSN; Tina Hyman RN, BSN;  
Margarita M. Pallares ARNP, MSN and Javier Jimenez MD, PhD



## Background

- Historically IV prostacyclins were the only treatment option indicated for the pulmonary hypertension (PH) patient population.
- Central lines carry risks for infection, sepsis, line fractures, and pain at the insertion site which are associated with patient's reporting a reduced quality of life.
- Oral prostacyclins offer an optimal treatment plan with improved quality of life.
- There is a lack of clinical trials to support the transition from IV to oral therapies.

## Purpose

- This case study details the transition from an IV Epoprostenol to oral Treprostinil over a seven week period.

## Case Description

- A 54 y/o female with severe PAH, WHO group 1, NYHA class III.
  - Tx:**
    - PDE-5
    - type-A selective endothelin receptor antagonist,
    - IV Epoprostenol x 4 yrs
  - S/E:**
    - flushing
    - sinus congestion
    - GI upset, generalized edema
    - shortness of breath
    - headaches
  - C/O:**
    - central catheter discomfort
    - depression
    - poor quality of life

## Transition Schedule Table

Medication	Prostacyclin	Total	Epoprostenol
Week 1 (05/23/2016)	Dose: 0.125mg po TID (use 1 tab of 0.125mg TID/daily)	0.375mg/day	18ng/kg/min
Week 2 (05/30/2016)	Dose: 0.5mg po TID (use 2 tabs of 0.25mg TID for a total of 6 tabs/daily)	1.5mg/day	14ng/kg/min
Week 3 (06/06/2016)	Dose : 1mg po TID (use 4 tabs of 0.25mg TID for a total 12 tabs/daily)	3mg/day	10ng/kg/min
Week 4 06/13/2016)	Dose: 2mg po TID (use 2 tablets of 1mg TID for a total of 6 tabs/daily)	6mg/day	6ng/kg/min
Week 5 (06/20/2016)	Dose: <u>morning</u> 3.5mg (use 2.5mg tab + 1mg tab) <u>noon</u> 3.0mg (use 2.5mg tab + 0.5mg tab) <u>evening</u> 3.5mg (use 2.5mg + 1mg tab)	10mg/day	3 ng/kg/min
Week 6 (06/27/2016)	Dose: <u>morning</u> 4mg (use 2.5mg tab + 1mg tab + 0.25tab + 0.25mg tab) <u>noon</u> 4mg (use 2.5mg tab + 1mg tab + 0.25mg tab + 0.25mg tab) <u>evening</u> 4.5mg (use 2.5mg tab + 2 tabs of 1mg)	12.5mg/day	1.5ng/kg/min
Week 7 (07/04/2016)	Dose: <u>morning</u> 4mg (use 2.5mg tab + 1mg tab + 2 tablets of 0.25mg) <u>noon</u> 5mg (use 2 tabs of 2.5mg) <u>evening</u> 5mg (use 2 tabs of 2.5mg)	14mg/day	Stop infusion

## Methods

- A comprehensive plan of care was developed by a multidisciplinary healthcare team.
- Weekly transitions were closely monitored by the cardiologist and the Outpatient Pulmonary Hypertension Clinic staff.
- The patient's mental and physical well being was evaluated and documented during the seven week period.

## Results

- The patient was successfully transitioned from IV to oral therapy with no adverse events or functional decline.
- The patient reported having an improved quality of life and was able to resume swimming and other hobbies that had been contraindicated when IV therapy was initiated.

**Improved Quality of Life!**

## Implications for Practice

- Patients meeting certain criteria can safely be transitioned from IV to oral prostacyclins.
- Reduction of infection due to central line removal.
- Reduced risk of abrupt discontinuation of treatment due to central line/pump malfunction.
- Improved quality of life
- Delivering more cost effective care by reducing the need for pump maintenance

## Contact Information

Tina Hyman  
[TinaH@baptisthealth.net](mailto:TinaH@baptisthealth.net)  
 Michael S. Salinero  
[MichaelSS@baptisthealth.net](mailto:MichaelSS@baptisthealth.net)  
 Javier Jimenez  
[JJimenez@smiamiheart.com](mailto:JJimenez@smiamiheart.com)