



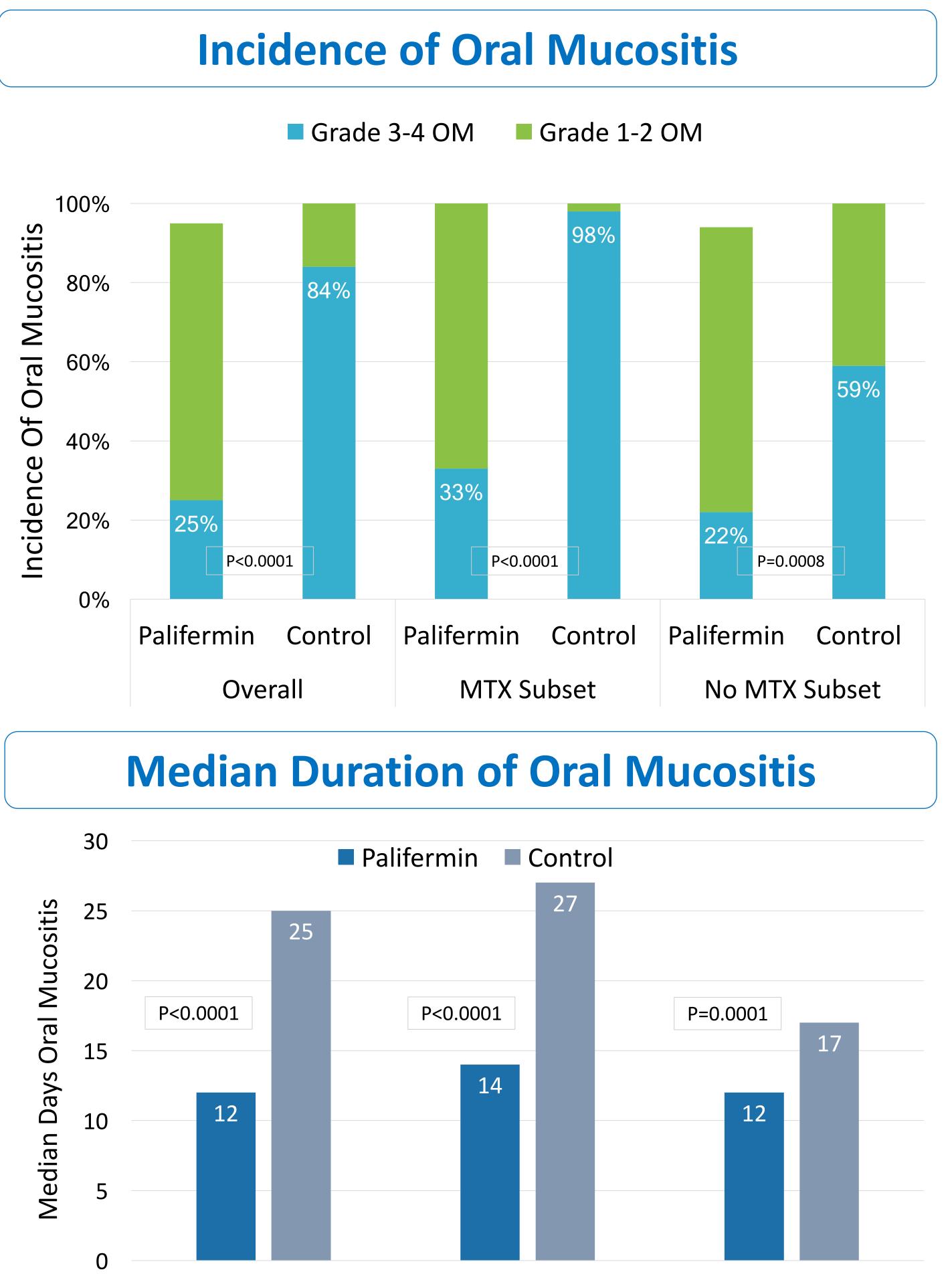
Palifermin for oral mucositis prevention in allogeneic hematopoietic stem cell transplant patients conditioned with total body irradiation (TBI) and etoposide with or without methotrexate Doreen Pon^{1,2}, Diana Nguyen², Danielle Curi¹, Sepideh Shayani², Ricardo Spielberger² ¹Western University of Health Sciences, Pomona, California, USA ²City of Hope National Medical Center, Duarte, California, USA

Introduction

Palifermin is a keratinocyte growth factor that is approved in the U.S. to decrease the incidence and duration of oral mucositis (OM) after myelotoxic therapy in autologous hematopoietic stem cell (HSCT) patients. It is not approved in the setting of allogeneic HSCT (alloHSCT).

The purpose of our study was:

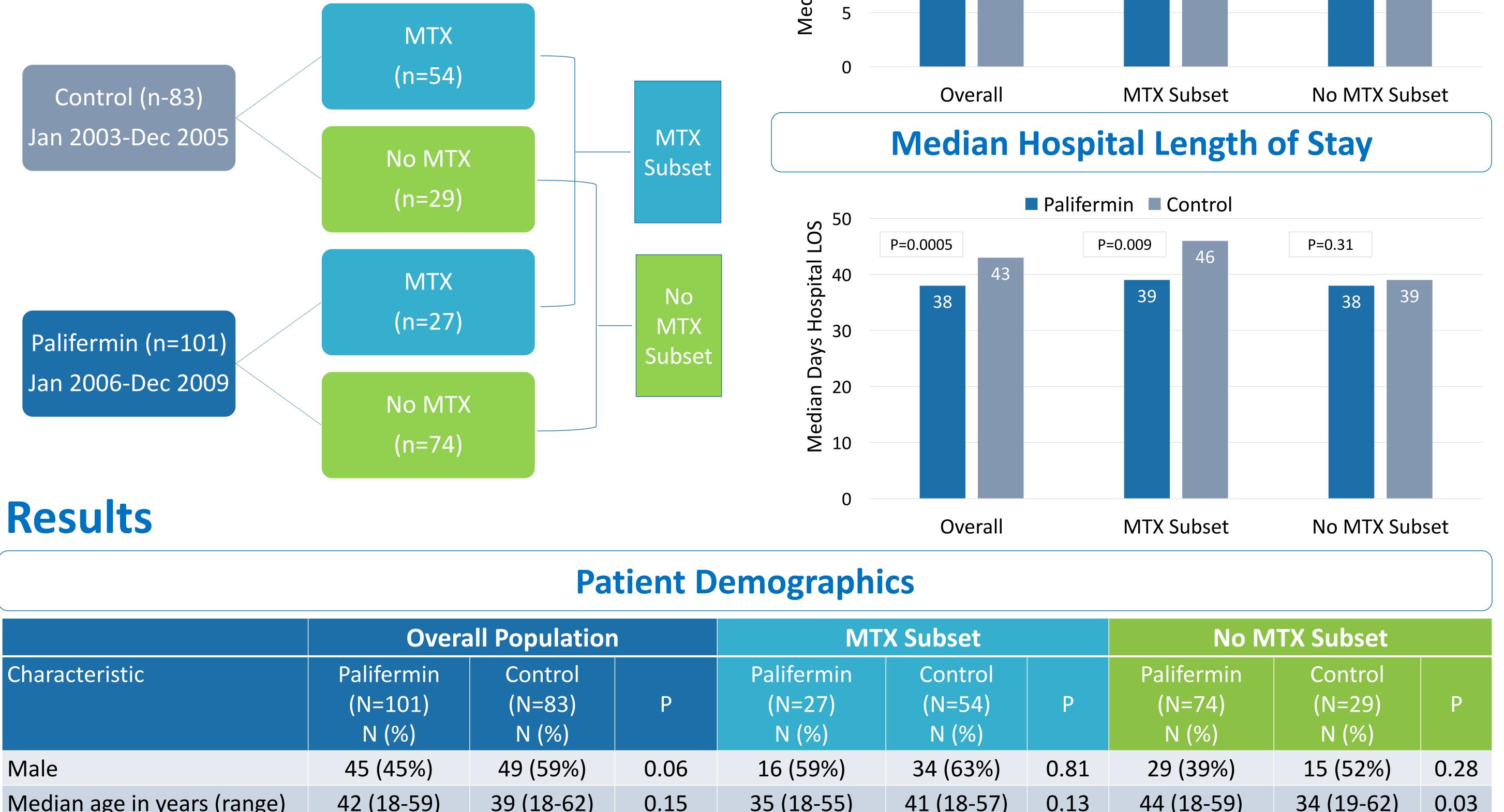
Results



- To determine the difference in duration and severity of OM and hospital length of stay (LOS) in adult alloHSCT patients conditioned with TBI and etoposide with or without palifermin prophylaxis
- To compare the outcomes above between subsets of patients who did and did not receive methotrexate (MTX) for graft-versus-host disease (GVHD) prophylaxis

Materials and Methods

- IRB-approved single-center retrospective cohort study
- Historical control group was comprised of patients treated between 2003-2005 without palifermin



median age myears (range)	12 (10 33)	33 (10 02)	0110	33 (10 33)		0.10	11(±0.00)	31(13 02)	0.00
Matched related donor	75 (74%)	60 (72%)	0.87	18 (67%)	32 (60%)	0.63	57 (77%)	28 (97%)	0.02
Peripheral stem cell	87 (86%)	81 (98%)	0.007	22 (82%)	52 (96%)	0.04	65 (88%)	29 (100%)	0.06
<u>GVHD Px</u>									
No MTX	74 (73%)	29 (35%)	< 0.0001	0	0		74 (100%)	29 (100%)	
MTX	27 (27%)	54 (65%)		27 (100%)	54 (100%)		0	0	
Tacro	17 (17%)	17 (20%)		17 (63%)	17 (31%)		0	0	
Tacro-Siro	79 (78%)	32 (39%)		7 (26%)	7 (13%)		72 (97%)	25 (86%)	
Tacro-Siro-ATG	4 (4%)	0		2 (7%)	0		2 (3%)	0	
CSA	1 (1%)	34 (41%)		1 (4%)	30 (56%)		0	4 (14%)	

References

- Kepivance [package insert]. Stockholm, Sweden: Sobi; 2016.
- Spielberger R, Stiff P, Bensinger W. et al. Palifermin for oral mucositis after intensive therapy for hematologic cancers. N Engl J Med 2004;351:2590-8.
- 3. Nguyen DT, Shayani S, Palmer J, et al. Palifermin for prevention of oral mucositis in allogeneic hematopoietic stem cell transplantation: singleinstitution retrospective evaluation. Support Care Cancer 2015;23:3141-7.

Conclusions

Palifermin prophylaxis in alloHSCT patients conditioned with etoposide + TBI was associated with:

- Decreased duration and severity of oral mucositis in patients who received and did not receive MTX for GVHD prophylaxis
- Decreased LOS in patients who received MTX for GVHD prophylaxis