

Supplemental Table 1: All Adverse Events.						
Body System Category	Grades					Total
<i>Toxicity</i>	1	2	3	4	5	
Blood and lymphatic system disorders	4	2	1	0	0	7
<i>Anemia</i>	1	1	0	0	0	2
<i>Lymph nodes enlarged</i>	1	0	0	0	0	1
<i>Lymphadenopathy</i>	2	0	0	0	0	2
<i>Neutropenia</i>	0	1	1	0	0	2
Eye disorders	3	0	0	0	0	3
<i>Blurred vision</i>	1	0	0	0	0	1
<i>Dry eye</i>	1	0	0	0	0	1
<i>Exotropia</i>	1	0	0	0	0	1
Gastrointestinal disorders	20	1	0	0	0	21
<i>Abdominal or pelvic swelling, mass, or lump</i>	1	0	0	0	0	1
<i>Abdominal pain</i>	1	0	0	0	0	1
<i>Constipation</i>	4	0	0	0	0	4
<i>Diarrhea</i>	1	0	0	0	0	1
<i>Dyspepsia</i>	4	0	0	0	0	4
<i>Flatulence</i>	1	0	0	0	0	1
<i>Gas in stomach</i>	2	0	0	0	0	2
<i>Nausea</i>	4	1	0	0	0	5
<i>Rectal hemorrhage</i>	1	0	0	0	0	1
<i>Stomach pain</i>	1	0	0	0	0	1
General disorders and administration site conditions	8	4	0	0	0	12
<i>Fatigue</i>	4	2	0	0	0	6
<i>Feeling abnormal</i>	3	0	0	0	0	3
<i>Flu like symptoms</i>	0	1	0	0	0	1
<i>Malaise</i>	0	1	0	0	0	1
<i>Pain</i>	1	0	0	0	0	1
Immune system disorders	1	1	0	0	0	2
<i>Seasonal allergy</i>	1	1	0	0	0	2
Infections and infestations	7	0	1	0	0	8
<i>Appendicitis</i>	0	0	1	0	0	1
<i>Cold symptoms</i>	1	0	0	0	0	1
<i>Conjunctivitis</i>	1	0	0	0	0	1
<i>Folliculitis</i>	1	0	0	0	0	1
<i>Gonorrhea</i>	1	0	0	0	0	1
<i>Upper respiratory infection</i>	3	0	0	0	0	3
Injury, poisoning and procedural complications	6	2	0	1	0	9
<i>Alcohol intoxication</i>	0	0	0	1	0	1
<i>Bruising</i>	2	0	0	0	0	2
<i>Dog bite</i>	1	0	0	0	0	1
<i>Hamstring tendon injury</i>	1	0	0	0	0	1
<i>Infusion related reaction</i>	2	0	0	0	0	2
<i>Laceration of thumb</i>	0	1	0	0	0	1
<i>Wrist fracture</i>	0	1	0	0	0	1
Investigations	1	0	1	0	0	2

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Body System Category	Grades					Total
	1	2	3	4	5	
<i>Toxicity</i>	1	0	0	0	0	1
<i>Carbon dioxide decreased</i>	1	0	0	0	0	1
<i>Neutrophil count decreased</i>	0	0	1	0	0	1
Metabolism and nutrition disorders	6	4	0	0	0	10
<i>Hyperglycemia</i>	2	2	0	0	0	4
<i>Hypophosphatemia</i>	2	1	0	0	0	3
<i>Increased appetite</i>	1	0	0	0	0	1
<i>Type II diabetes mellitus</i>	0	1	0	0	0	1
<i>Unspecified vitamin D deficiency</i>	1	0	0	0	0	1
Musculoskeletal and connective tissue disorders	4	1	0	0	0	5
<i>Arthralgia</i>	1	0	0	0	0	1
<i>Back pain</i>	1	0	0	0	0	1
<i>Groin pain</i>	1	0	0	0	0	1
<i>Muscle cramps</i>	1	0	0	0	0	1
<i>Myalgia</i>	0	1	0	0	0	1
Neoplasms benign, malignant and unspecified (incl cysts and polyps)	1	1	0	0	0	2
<i>Anal warts</i>	0	1	0	0	0	1
<i>Colonic tubular adenoma</i>	1	0	0	0	0	1
Nervous system disorders	14	0	0	0	0	14
<i>Dizziness</i>	3	0	0	0	0	3
<i>Headache</i>	4	0	0	0	0	4
<i>Lethargy</i>	1	0	0	0	0	1
<i>Paresthesia</i>	5	0	0	0	0	5
<i>Tingling sensation</i>	1	0	0	0	0	1
Psychiatric disorders	5	0	0	0	0	5
<i>Anxiety</i>	1	0	0	0	0	1
<i>Depression</i>	1	0	0	0	0	1
<i>Insomnia</i>	2	0	0	0	0	2
<i>Libido decreased</i>	1	0	0	0	0	1
Renal and urinary disorders	2	0	0	0	0	2
<i>Hematuria</i>	2	0	0	0	0	2
Respiratory, thoracic and mediastinal disorders	10	2	2	0	0	14
<i>Aspiration</i>	0	0	1	0	0	1
<i>Chest congestion</i>	2	0	0	0	0	2
<i>Hiccups</i>	3	1	0	0	0	4
<i>Hypoxia</i>	0	0	1	0	0	1
<i>Nasal burning</i>	1	1	0	0	0	2
<i>Nasal congestion</i>	1	0	0	0	0	1
<i>Nasal sinus congestion</i>	1	0	0	0	0	1
<i>Sneezing</i>	1	0	0	0	0	1
<i>Sore throat</i>	1	0	0	0	0	1
Skin and subcutaneous tissue disorders	10	0	0	0	0	10
<i>Alopecia</i>	1	0	0	0	0	1
<i>Body odor</i>	1	0	0	0	0	1
<i>Dry skin</i>	1	0	0	0	0	1

Supplemental Table 1: All Adverse Events.						
Body System Category	Grades					Total
	1	2	3	4	5	
<i>Toxicity</i>	1	0	0	0	0	1
<i>Nail discoloration</i>	1	0	0	0	0	1
<i>Papular skin eruption</i>	5	0	0	0	0	5
<i>Pruritus</i>	1	0	0	0	0	1
Vascular disorders	1	1	0	0	0	2
<i>Hot flashes</i>	1	0	0	0	0	1
<i>Hypertension</i>	0	1	0	0	0	1
Total	103	19	5	1	0	128

Data date 09/30/2019

Supplemental Table 2

	301			302			303			305			304			202			203			206			Net		
	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net	Aph#2	Aph#5	Net			
DMSO	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Gag-pool-1	0.35%	1.22%	0.87%	0.00%	0.01%	0.01%	0.00%	0.02%	0.02%	0.02%	0.01%	0.01%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.39%	0.69%	0.30%	0.03%	0.00%	-0.03%
Gag-pool-2	0.01%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.13%	0.07%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.07%	0.06%	0.01%	0.00%	-0.01%	
Gag-pool-3	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	-0.04%	0.00%	0.00%	0.00%	0.03%	0.00%	-0.03%
Gag-pool-4	0.02%	0.01%	-0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.00%	0.02%	0.02%	0.00%	0.00%	-0.01%	0.01%	0.00%	-0.05%	0.05%	0.00%	-0.05%	0.00%	0.00%	0.00%	0.04%	0.00%	-0.04%
Gag-pool-5	0.01%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.02%	0.01%	0.04%	0.03%	0.02%	0.00%	-0.02%	0.00%	-0.03%	0.03%	0.00%	-0.03%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.01%
Gag-pool-6	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.02%	0.02%	0.00%	0.00%	0.00%	0.00%	0.07%	0.01%	-0.07%	0.01%	0.00%	-0.01%	0.04%	0.00%	-0.04%	
Gag-pool-7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.04%	0.03%	0.01%	0.00%	-0.01%	-0.02%	0.03%	0.13%	0.38%	0.25%	0.13%	0.38%	0.25%	0.02%	0.01%	-0.01%
Gag-pool-8	0.04%	0.00%	-0.04%	0.01%	0.02%	0.00%	0.00%	0.02%	0.02%	0.15%	0.11%	-0.05%	0.00%	0.00%	0.00%	0.05%	0.00%	-0.05%	0.01%	0.02%	0.01%	0.01%	0.02%	0.01%	0.01%	0.01%	0.00%
Gag-pool-9	0.13%	0.22%	0.09%	0.01%	0.01%	0.00%	0.00%	0.02%	0.02%	0.00%	0.01%	0.01%	0.01%	0.01%	-0.01%	0.02%	0.01%	-0.02%	0.00%	0.00%	0.00%	0.02%	0.01%	0.02%	0.01%	0.01%	-0.01%
Gag-pool-10	0.04%	0.03%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.07%	0.07%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	0.05%	0.00%	-0.04%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.02%	0.00%	-0.02%
Gag-pool-11	0.04%	0.01%	-0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.02%	0.01%	0.00%	0.00%	0.00%	0.08%	0.00%	-0.08%	0.00%	0.01%	0.01%	0.01%	0.12%	0.08%	0.01%	0.01%	-0.04%
Gag-pool-12	0.02%	0.00%	-0.02%	0.00%	0.03%	0.03%	0.00%	0.00%	0.00%	0.02%	0.02%	0.01%	0.00%	0.01%	-0.02%	0.05%	0.01%	-0.05%	0.02%	0.02%	0.01%	0.02%	0.02%	0.01%	0.07%	0.00%	-0.07%
Gag-pool-13	0.01%	0.01%	-0.01%	0.01%	0.04%	0.03%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	-0.03%
Gag-pool-14	0.35%	0.16%	0.19%	0.00%	0.00%	0.00%	0.03%	0.12%	0.09%	0.07%	0.06%	-0.01%	0.00%	0.00%	0.00%	0.11%	0.03%	-0.08%	0.00%	0.01%	0.01%	0.04%	0.04%	0.08%	0.04%	0.08%	0.05%
Gag-pool-15	0.00%	0.07%	0.07%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.03%	0.00%	-0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.02%	0.01%	0.00%	-0.01%	0.01%	0.00%	-0.01%	0.01%	0.00%	-0.01%
Gag-pool-16	0.00%	0.01%	0.01%	0.02%	0.01%	-0.01%	0.04%	0.02%	-0.02%	0.01%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.04%	0.00%	-0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	-0.03%
Gag-pool-17	0.03%	0.00%	-0.03%	0.00%	0.00%	0.00%	0.06%	0.05%	-0.01%	0.00%	0.00%	-0.01%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.00%	0.01%	0.00%	-0.01%	0.00%	0.01%	0.01%	0.04%	0.01%	-0.04%
Gag-pool-18	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.03%	0.03%	0.00%	-0.03%	0.03%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.08%	0.27%	0.19%	0.02%	0.00%	0.02%	0.00%	0.00%	-0.02%
Gag-pool-19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	-0.02%	0.01%	0.00%	-0.01%	0.05%	0.00%	-0.05%	0.02%	0.00%	-0.02%	0.02%	0.00%	-0.02%	0.01%	0.00%	-0.01%
Gag-pool-20	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.03%	0.01%	-0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	-0.02%
Gag-pool-21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	1.30%	1.22%	0.01%	0.01%	-0.01%	0.02%	0.00%	-0.02%	0.05%	0.02%	-0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	-0.03%
Gag-pool-22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	-0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	-0.02%
Gag-pool-23	0.02%	0.00%	-0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.01%	0.00%	-0.01%	0.01%	0.02%	-0.02%	0.01%	0.00%	-0.01%	0.01%	0.00%	-0.03%	0.00%	0.00%	0.00%
Gag-pool-24	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.02%	0.00%	-0.02%	0.02%	0.00%	-0.02%	0.02%	0.00%	-0.02%	0.01%	0.00%	-0.01%	0.01%	0.00%	-0.01%	0.03%	0.00%	-0.03%
Gag-pool-25	0.01%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.13%	0.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%	0.00%	-0.03%
Gag-peptide-73	0.01%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.01%	0.02%	0.00%	-0.02%	0.01%	0.01%	0.00%	0.01%	0.04%	0.03%	
Gag-peptide-81	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	-0.02%	0.03%	0.01%	-0.02%	0.01%	0.00%	-0.01%	0.03%	0.00%	-0.03%	
Gag-peptide-93	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%	0.01%	-0.04%	0.00%	0.01%	0.01%	0.01%	0.02%	0.01%	0.02%	0.00%	0.00%
Gag-peptide-114	0.01%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.04%	0.00%	-0.04%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.02%	0.01%	-0.01%	0.02%	0.01%	-0.02%	0.02%	0.01%	-0.02%	0.02%	0.03%	0.01%
			0.91%			0.08%			1.63%			-0.06%			-0.20%			-0.72%			0.78%						-0.51%

Number of responses in which there is more than 0.05% increase

3

0

4

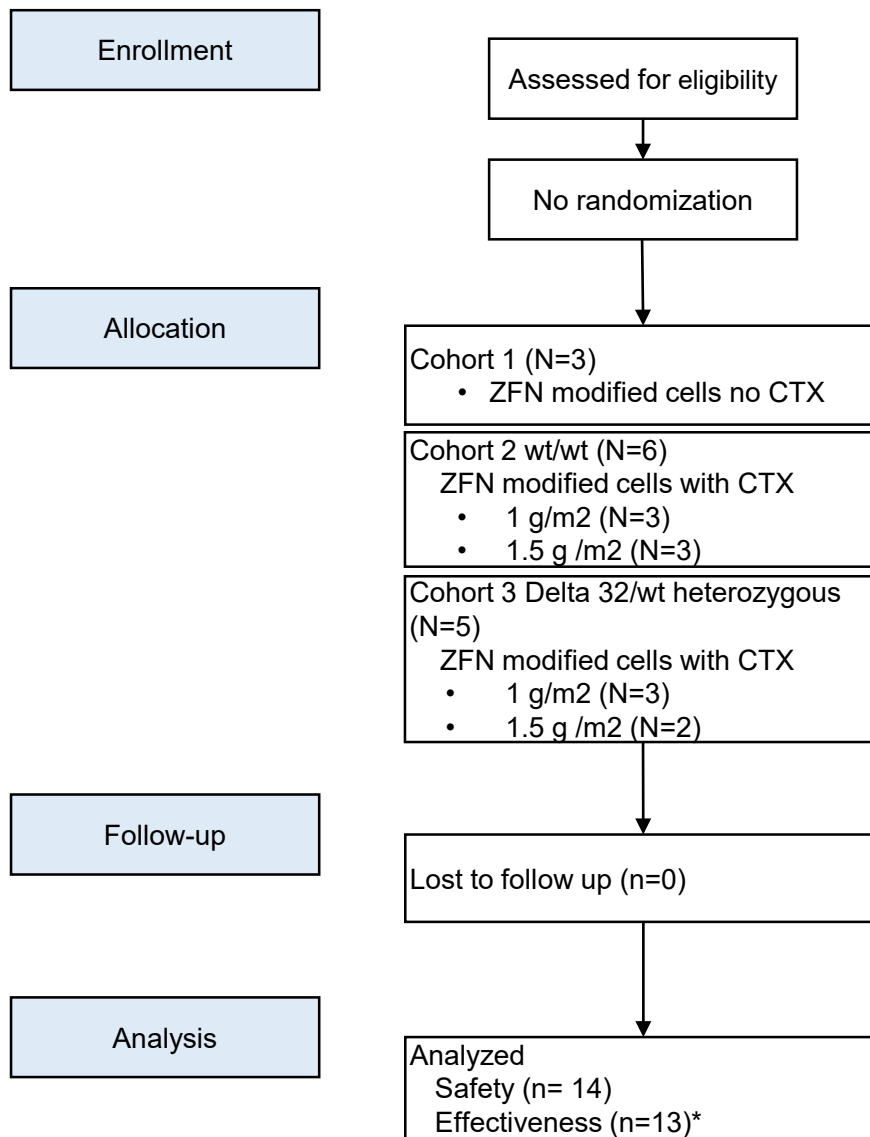
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1

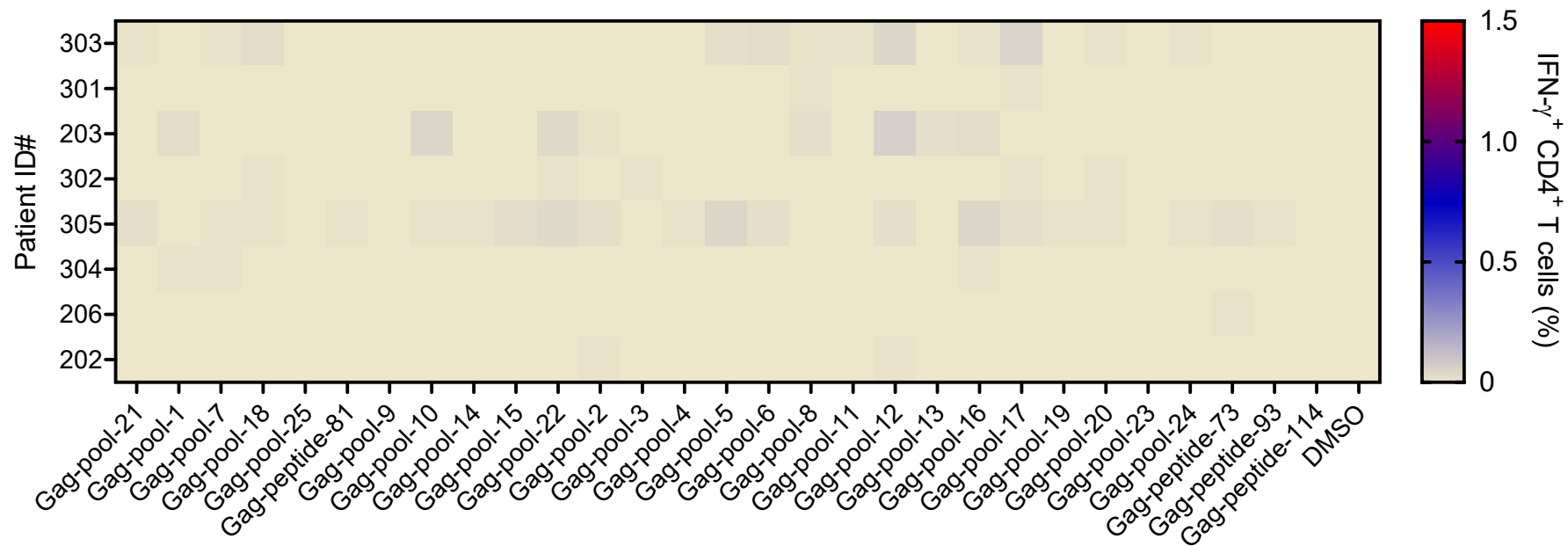
3

0



* 1 participant was excluded from the efficacy analysis because of detectable antiretroviral drug levels during the ATI

Supplemental Figure 1: Consort statement



Supplemental Figure 2: No substantial change in HIV-specific CD4 T cell response. Heat map showing the change in the % IFN γ positive CD4 T cells when exposed to the indicated peptide pool between apheresis #2 and #5.