DEPARTMENT OF HEALTH AND HUMAN SERVICES				
DISTRICT ADDRESS AND PHON		OD AND DRUG ADMINISTRATION	DATE(S) OF INSPECTION	
300 River Pla	lace, Suite 5900		02/12/2015 - 02/2	3/2015*
Detroit, MI	MI 48207		FEINUMBER	
	0 Fax: (313) 393-8139		3011357279	
INAME AND TITLE OF INDIVIDUA	ormation: www.fda.gov/	oc/industry		
	C. Drake, President			
	dba Advanced Care	50860 Corpo	arata Dr	
Infusion-Shel		Suite 100	JIACE DI	
CITY, STATE, ZIP CODE, COUNT		TYPE ESTABLISHMENT IN	SPECTED	
Shelby Townsh	nip, MI 48315-3123	Producer of	Sterile Drug Prod	ucts
observation, or have action with the FDA questions, please con	This document lists observations made by the FDA representative(s) during the inspection of your facility. They are inspectional observations, and do not represent a final Agency determination regarding your compliance. If you have an objection regarding an observation, or have implemented, or plan to implement, corrective action in response to an observation, you may discuss the objection or action with the FDA representative(s) during the inspection or submit this information to FDA at the address above. If you have any questions, please contact FDA at the phone number and address above.			
OBSERVATION Written records of	1 investigations into unexplained of	discrenancies do not always	include the conclusions and	follow-up.
	investigations into unexplained	uiserepaileles do not arways	menude die conclusions and	rionow-up.
remediation and/or i. (b) (4) ac a, (b) (4) laboratory. N count for the b. (b) (4) c. (b) (4) c. (b) (4) c. (b) (4) c. (b) (4) c. (b) (4) c. (b) (4) c. (c) (b) (4) c. and Pseudon ii. A resample of cfu/m ³ with a r Aseptically process	crepancies and out-of-specificati appropriate corrective actions we trive viable air sampling perform air samples in the ISO 7 buffer of No speciation for any fungi was p esse samples. air samples in the ISO 7 buffer of air samples in the ISO 7 buffer of air samples in the ISO 8 anter or monas stutzeri, an environmental active viable air monitoring performant essult of 14 cfu/m ³ .	vere taken to address the issues ned in your facility on 7/9/1 room resulted in notations for provided and the presence of room exceeded the limit of N room recovered <i>Raoultella</i> p om recovered <i>Acinetobacter</i> I bacterium. formed in the ISO 7 buffer r	the. 4 included the following rest or "Fungus Present" by the of f fungi was not included in the MMT (b) (4) with a result lanticola, a gram-negative ro lwoffii, a gram-negative coc	ults contract testing the numerical cfu of 12 cfu/m ³ . od bacterium. co-bacillary rod,
OBSERVATION :	2			
Procedures designed to prevent microbiological contamination of drug products purporting to be sterile are not written and followed.				
Specifically,				
		AMENDMENT 2		
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DEPARTMENT OF HEALTH AND HUMAN SERVICES		
DISTRICT ADDRESS AND PHONE NUMBER	RUG ADMINISTRATION DATE(S) OF INSPECTION	
300 River Place, Suite 5900	02/12/2015 - 02/23/	2015*
Detroit, MI 48207 (313) 393-8100 Fax:(313) 393-8139	3011357279	
Industry Information: www.fda.gov/oc/inc	dustry	
TO: William C. Drake, President		
	STREET ADDRESS	
Tri-Med, Inc. dba Advanced Care Infusion-Shelby	50860 Corporate Dr Suite 100	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Shelby Township, MI 48315-3123	Producer of Sterile Drug Produc	ts.
 A. Adequate aseptic process simulations (media fills) have not been performed under representative worst case aseptic processing conditions to assure the sterility of drug products. To date, media fills conducted by operators utilize the which primarily consists of (b) (4) (b) (4) (b) (4) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		
 B. Aseptic practices and techniques observed at your facility during the processing of sterile drug products are inadequate in that: i. Full sanitization of all items entering the ISO 5 hood was not performed. On 2/12/15, a cap from the container with 		
 non-sterile powder was placed on the ISO 5 hood surface without being fully sanitized. ii. The operator was observed to rest gloved hand on ISO 5 work surface and subsequently performed aseptic manipulations without additional hand sanitization. iii. During periodic cleaning of the ISO 5 hood with sterile (b) (4) the operator used bare hands to operate the spray bottle and use the non-sterile wipe to clean and sanitize the hood surface. Each sterile (b) (4) spray bottle is dedicated to and always stored in each ISO 5 hood. 		
 During aseptic processing, the operator was observed to contact this spray bottle and perform aseptic manipulations without resanitization. 		
 v. On 2/12/15, the operator was observed to have bare hands in the ISO 5 hood to done the sterile gloves and to then contact objects in the ISO 7 buffer room environment when transfering items into the ISO 5 hood without resanitizing the sterile gloves upon all reentries into the ISO 5 space. 		
C. No (b) (4) (b) (4) such as (b) (4) (b) (4) is performed for the (b) (4) used to sterilize aseptically processed products formulated using non-sterile ingredients. During each (b) (4) are used including (b) (4) For example, Morphine 15mg/mL + Bupivicaine 10.5mg/mL in 40 mL syringe on 2/5/15.		
D. No documentation was provided to support that air pattern analyses, such as smoke studies, were performed in the ISO 5 laminar hoods under dynamic conditions.		
Aseptically processed drug products generally affected include: - TPN 3:1 1125mL product produced on 8/19/ 15 14 - TPN 3:1 1125mL bag produced on 2/4/15 - Morphine 15mg/mL and Bupivicaine 10.5mg/mL in 40 mL syringe produced on 2/5/15		
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DEPARTMENT OF HEALTH AND HUMAN SERVICES			
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300 River Place,			2015 - 02/23/2015*
Detroit, MI 4820 (313) 393-8100 F	Tax:(313) 393-8139	FEINUMBER 3011357	279
Industry Informat	ion: www.fda.gov/oc/indu	stry	
NAME AND TITLE OF INDIVIDUAL TO WHO TO: William C. D	MREPORTISSUED Drake, President		
FIRM NAME		STREET ADDRESS	
Tri-Med, Inc. dba Infusion-Shelby	Advanced Care	50860 Corporate Dr Suite 100	
CITY, STATE, ZIP CODE, COUNTRY		TYPE ESTABLISHMENT INSPECTED	
Shelby Township,	MI 48315-3123	Producer of Sterile	Drug Products
OBSERVATION 3	5		
 Aseptic processing areas are deficient regarding the system for cleaning and disinfecting the room and equipment to produce aseptic conditions. Specifically, The cleaning and sanitization activities performed in the aseptic processing areas are not adequate. Only sterile (b) (4) is used to clean the ISO 5 hoods and no sporicidal agent is used on these surfaces or equipment. Non-sterile wipes are used to clean the ISO 5 surfaces. These wipes are stored exposed to the ISO 7 environment before use and do not appear to be fully saturated with IPA when used. iii. There is no assurance that an adequate concentration (b) (4) is used to periodically clean the floors, walls, and ceiling of the ISO 7 buffer and ISO 8 ante room. The bottle of (b) (4) is states "Not for sanitization or disinfection" and does not state a percent concentration to allow for proper dilution. Aseptically processed drug products generally affected include: TPN 3:1 1125mL product produced on 8/19/4514 TPN 3:1 1125mL bag produced on 2/4/15 			
- Morphine 15mg/mL and Bupivicaine 10.5mg/mL in 40 mL syringe produced on 2/5/15 OBSERVATION 4			
Aseptic processing areas are deficient regarding the system for monitoring environmental conditions.			
Specifically,	Specifically,		
 A. The active viable environmental monitoring (EM) program at your facility is inadequate in that: Active viable EM is not performed during every drug production shift in the critical areas. Active viable air samples are taken in the ISO 5 laminar hoods, ISO 7 buffer room, and ISO 8 ante room approximately every (b) (4) Sterile drug processing activities typically occur (b) (4) ii. Active viable EM is not always representative of dynamic conditions in that the samples are typically taken when no routine activities are occuring. iii. There is inadequate assurance that active viable EM includes media and incubation parameters validated to recover fungus and mold species. 			
 B. The non-viable particulate (NVP) EM program at your facility is inadequate in that: i. NVP monitoring is not performed routinely during every drug production shift in the critical areas. NVP samples are taken in the ISO 5 laminar hoods, ISO 7 buffer room, and ISO 8 ante room approximately every (b) (4) 			
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	ace, Suite 5900		02/12/2015 - 02/23/ FEI NUMBER	/2015*
(313) 393-81	oit, MI 48207 393-8100 Fax:(313) 393-8139		3011357279	
Industry Info	ormation: www.fda.gov/oc/ind	istry		
	C. Drake, President			
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Infusion-She	. dba Advanced Care lbv	50860 Corpo Suite 100	brate Dr	
		TYPE ESTABLISHMENT IN		
Shelby Townsh	nip, MI 48315-3123	Producer of	f Sterile Drug Produc	ts
 ii. There is no documentation stating the volume of air sampled for discrete NVP monitoring. iii. NVP monitoring is not always representative of dynamic conditions in that samples are typically taken when no routine activities are occuring. C. The viable surface sampling program at your facility is inadequate in that: i. Critical surfaces such as the ISO 5 laminar hoods are not monitored during each drug production shift. Currently, a single surface sample is taken from each ISO 5 laminar hood every (b) (4). ii. The surface samples of the ISO 5 area do not evaluate the impact of drug processing activities in that the sample was 				
 observed to be taken immediately after cleaning and sanitization of the equipment. D. The passive air samples taken using the (b) (4) are inadequate in that: Passive air samples of each ISO 5 laminar hood are taken every (b) (4). No routine activities occur in the hood during the sampling period. Additionally this sample was observed to be taken immediately after the hood was cleaned on 2/13/15. There is no documented rationale to support the method and placement of passive air samples taken in the ISO 7 buffer room. A sample is taken from a (b) (4). Historical data from 2014 to present notes zero growth for all samples in the ISO 7 area. 				
	performed for each sterile drug processing shift. Personnel glove monitoring of each operator is typically performed			
uncontrolled b	F. There is no routine monitoring of pressure differentials between the ISO 7 buffer room, ISO 8 ante room, and uncontrolled building areas. Room pressure differentials are only monitored and recorded approximately every (b) (4) as part of a contractor's certification.			
Aseptically processed drug products generally affected include: - TPN 3:1 1125mL product produced on 8/19/1514 - TPN 3:1 1125mL bag produced on 2/4/15 - Morphine 15mg/mL and Bupivicaine 10.5mg/mL in 40 mL syringe produced on 2/5/15				
OBSERVATION 5 Aseptic processing areas are deficient in that floors, walls, and ceilings are not smooth and/or hard surfaces that are easily cleanable.				
Specifically,				
Aseptic processing areas are deficient in that the floors, walls, and ceilings do not consist of smooth surfaces that are easily				
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TO: William C. Drake, President	STREET ADDRESS	
Tri-Med, Inc. dba Advanced Care	50860 Corporate Dr	
Infusion-Shelby	Suite 100	
CITY, STATE, ZIP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED	
Shelby Township, MI 48315-3123	Producer of Sterile Drug Products	
 cleanable. The ISO 7 buffer room containing the ISO 5 laminar flow hoods has the following: i. Two of the walls consist of (b) (4) the wall with many small pits and crevices. ii. The flooring consists of (b) (4) the with seams around every square foot. iii. The ceiling tiles are not all fully sealed and small gaps were observed into several light fixtures. Observation of the utility area on top of the ISO 7 and ISO 8 areas noted gaps into the cleanroom light fixtures from the unclassified space. 		
OBSERVATION 6 Aseptic processing areas are deficient regarding air supply that is filtered through high-efficiency particulate air filters under positive pressure.		
Specifically,		
Specifically,		

- A. There is an inadequate positive pressure differential between areas of differing air quality classifications. The most recent results recorded on 1/12/15 noted a differential of 0.0043" w.c. between the ISO 7 and ISO 8 rooms and a differential of 0.0081" w.c. between the ISO 8 and unclassified area.
- B. The HVAC system for the ISO 7 and ISO 8 rooms does not facilitate an adequate number of air changes per hour. Testing performed on 1/12/15 noted that the ISO 7 buffer room has 7.49 air changes per hour and the ISO 8 ante room has 4.03 air changes per hour.
- C. The terminal HEPA filters supplying air to the ISO 7 buffer and ISO 8 ante rooms were installed approximately 12/3/14 and have not been functionally tested for leaks post-installation. Prior to 12/3/14, there was no terminal HEPA filtration of air supplied to the buffer and ante rooms.

OBSERVATION 7

Clothing of personnel engaged in the processing of drug products is not appropriate for the duties they perform.

Specifically,

- A. The gowning of personnel performing aseptic operations is inadequate in that:
 - i. The gowns, facemasks, and hairnets worn during aseptic processing are not sterile.
 - ii. The current gowning method for aseptic processing consists of the gown, facemask, hairnet, shoe covers, and sterile gloves which leaves exposed skin around the neck, cheeks and forehead.
 - iii. The gown is not an enclosed outfit and is similar to a smock that ends above the knees and with a tied opening down the center of the back. This exposes clothing worn outside and in the unclassified areas of the building to the ISO 7 buffer room environment.

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DISTRICT ADDRESS AND PHONE NUMBER			
300 River Place, Suite 5900 Detroit, MI 48207			2015*
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Industry Information: www.fda.g	ov/oc/industry		
TO: William C. Drake, Presider	t STREET ADDRESS		
Tri-Med, Inc. dba Advanced Care		orate Dr	
Infusion-Shelby	Suite 100		
Shelby Township, MI 48315-3123		Sterile Drug Product	s
 B. Gowning worn in the ISO 7 buffer room is not dedicated to the ISO 7 space or disposed of prior to reentry. Multiple instances were observed where the gowned operator exited the ISO 7 buffer room, performed activities or interacted with personnel in the ISO 8 ante room, and reentered the ISO 7 buffer room to commence additional aseptic operations. Only new sterile gloves were worn in these instances. C. There is no protective gowning required to enter the ISO 8 ante room from the building's uncontrolled areas. For 			
example, personnel wearing street clothes	and shoes were observed to ente	r the ISO 8 ante room and perfe	orm activities.
D. Gloves are not always worn in the ISO 7 buffer room, exposing the skin of the hands to the room environment and equipment. This was observed during multiple activities including during cleaning of the room and during transfer of the transport cart near the ISO 5 laminar hoods. Additionally, the operator was observed in multiple instances to clean the ISO 5 laminar hood surfaces with bare hands using a non-sterile wipe sprayed with the sterile (b) (4) bottle which remains within the ISO 5 hood and is also utilized during aseptic processing.			
Aseptically processed drug products generally affected include: - TPN 3:1 1125mL product produced on 8/19/1514 - TPN 3:1 1125mL bag produced on 2/4/15 - Morphine 15mg/mL and Bupivicaine 10.5mg/mL in 40 mL syringe produced on 2/5/15			
OBSERVATION 8			
Each batch of drug product purporting to be sterile and pyrogen-free is not laboratory tested to determine conformance to such requirements.			
Specifically,			
A. Not all lots of sterile product aseptically processed are tested for sterility. For example, lots produced from the combination of commercially sourced sterile raw materials, including Methylprednisolone 1gm/100mL prepared on 2/4/15 and TPN formulas prepared on 2/4/15.			
 B. Your in-house sterility test using the powders, including Morphine and Bupivacaine solution on 2/5/15, is not scientifically valid. Deficiencies include, but not limited to: No fluid thioglycollate media (FTM) or equivalent is used to detect anaerobic bacteria. No method suitability testing has been performed using the required organisms in the presence of product. No growth promotion testing was performed. 			
C. No endotoxin testing is performed for any aseptically processed sterile drugs produced at your facility.			
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Detroit, MI 48207	FEI NUMBER		
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Industry Information: www.fda.gov/oc/ NAME AND TITLE OF INDIVIDUAL TO WHOM REPORT ISSUED	industry		
TO: William C. Drake, President			
FIRM NAME	STREET ADDRESS		
Tri-Med, Inc. dba Advanced Care	50860 Corporate Dr Suite 100		
Infusion-Shelby CITY, STATE, ZP CODE, COUNTRY	TYPE ESTABLISHMENT INSPECTED		
Shelby Township, MI 48315-3123	Producer of Sterile Drug Products		
 TPN 3:1 1125mL product produced on 8/19/1514 TPN 3:1 1125mL bag produced on 2/4/15 Morphine 15mg/mL and Bupivicaine 10.5mg/mL in 40 mL syringe produced on 2/5/15 			
Testing and release of drug product for distribution do not include appropriate laboratory determination of satisfactory conformance to the identity and strength of each active ingredient prior to release. Specifically,			
No potency testing is performed for any of the drug pro	ducts produced.		
OBSERVATION 10			
There is no written testing program designed to assess the stability characteristics of drug products.			
Specifically,			
Not all assigned BUDs for sterile drug products processed at your facility are supported by stability testing data. For example, Morphine 15mg/mL and Bupivacaine 10.5mg/mL with normal saline in a 40 mL syringe was aseptically processed on 2/5/15 from non-sterile powders. The dose delivery date of 2/10/15 notes when this preservative free product is injected into an implanted intrathecal pump for continuous infusion over an extended period with intended delivery lasting through date of 4/28/15 and drug stable through date of 5/6/15.			
OBSERVATION 11			
The responsibilities and procedures applicable to the quality control unit are not in writing and fully followed.			
Specifically,			
The majority of procedures governing aseptic processing operations at your facility are either not written, inadequate, or not followed. Routine activities, which are not always documented, may be modified through verbal discussions. For example: i. Cleaning procedures do not specify all cleaning frequencies, agents, dilution instructions, and techniques to be used. (b) (4) cleaning of the ceiling initiated since 9/1/14 is not documented.			

- ii. There is no procedure stating the specific requirements and conditions to adequately validate aseptic processes via media fills.
- iii. There is no procedure stating the requirements and conditions for environmental and personnel monitoring as well as the

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specifications or resulting actions and follow-up.		
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* DATES OF INSPECTION: 02/12/2015(Thu), 02/13/2015(Fri), 02/16/2015(Mon), 02/23/2015(N	Mon)	
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