

# ***b*SUTURING**

## **BASIC LAPAROSCOPIC SUTURING**

**02<sup>ND</sup> - 04<sup>TH</sup> APRIL, 2018**



UNIDADE  
RIO DE  
JANEIRO

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*Americas Medical City  
Rio de Janeiro, Brazil*

### **COURSE DIRECTOR**

**Croider Lacerda**

*Americas Medical City  
Rio de Janeiro, Brazil*

### **COURSE DIRECTOR**

**Paulo Bertulluci**

*Americas Medical City  
Rio de Janeiro, Brazil*

## **OBJECTIVES**

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- Perform basic practical and theoretical training of laparoscopic suture for beginner and experienced surgeons who perform or intend to perform laparoscopic surgery.

## **EDUCATIONAL METHODS**

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- Interactive theoretical and video sessions between faculty and course participants

## **FACULTY & TRAINER**

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- Luciana Guimarães
- Fábio Madureira
- Gastão José
- José Ciongoli
- Paulo Jiquiriça
- Dyego Benevenuto
- Daniela Balbino
- Roberto Marcellus
- Leonardo Ferraz
- Douglas Furtado

# FIRST DAY - April 02<sup>nd</sup>, 2018

07.45 am	Registration
08.00 am	Welcome to participants – Introduction of faculty members
<b>THEORETICAL SESSION</b>	
<i>Chairmen: <u>Fábio Madureira</u>, <u>Luciana Guimaraes</u>, <u>Gastão Jose</u>, <u>Jose Ciongoli</u></i>	
08:10 am (20 minutes)	1- History and Equipment needed for suture (needle-holder, needle-guard, trocars) VLP <span style="float: right;">Croider Lacerda</span>
08:30 am (5 minutes)	Discussion
08:35 am (20 minutes)	2 - Selection of yarns and needles for VLP suture <span style="float: right;">Luciana Guimarães</span>
08:55 am (5 minutes)	Discussion
09:00 am (20 minutes)	3 - Ergonomics for VLP suture <span style="float: right;">Fábio Madureira</span>
09:20 am (5 minutes)	Discussion
09:25 am (30 minutes)	4 - Camera men techniques in VLP suture <span style="float: right;">Croider Lacerda</span>
09:55 am (5 minutes)	Discussion
<b>10:00 - 10:20 am Coffe Break</b>	
10:25 am (20 minutes)	5 - Introduction, Loading the needle and with drawal of the needle from the VLP cavity <span style="float: right;">Paulo Jiquiriça</span>
10:45 pm (5 minutes)	Discussion
10:50 am (20 minutes)	6 - Geometry of intra-corporeal suture VLP <span style="float: right;"><i>Paulo Bertulucci</i></span>
11:10 am (5 minutes)	Discussion
11:15 am (15 minutes)	7 – Basic structure of the surgical knot <span style="float: right;"><i>Roberto Marcellus</i></span>
11:30 am (5 minutes)	Discussion
<b>12:00 – 01:00 pm Lunch</b>	
<b>01:00 pm EXPERIMENTAL LABORATORY – BLACK BOX</b>	
<i>Laboratory coordinator: Croider Lacerda, Paulo Bertulucci and Jose Ciongoli</i>	
Exercises <b>All faculty and trainers</b>	<b>Exercise 1- 2x 15' - Cognition 1: Camera Man: Navigation</b> <b>**Small class**</b> (2 X 10') - Review, tactics and tricks: Ergonomics and first assistants (“Camera Man”), with Dr. <b>Paulo Bertulucci</b> - in the Laboratory
	<b>Exercise 2 - 2x 15' - Cognition 2: Passing of the needle through the Hooks Circuit</b> <b>**Small class**</b> (2 X 10') - Review: Equipment for suture (needle holders, Grasper, Dissector, needles ...) , with <b>Team STORZ (Dandara) and Dr Paulo Bertulucci</b> - in the Laboratory
	<b>Exercise 3 - 2x15' - Cognition 3: Cognition - Passage of the needle and thread in the circuit of hooks</b> <b>**Small class**</b> (2 X 10') - Review: Surgical thread, with <b>Team Medtronic (Ana Paula Lima, Felipe Dias and Thiago Tavares)</b> - in the Laboratory
	<b>Exercise 4 - 2x20' - Needle Loading → Dancing needle technique, “pulling hair”, rotation technique, tissue help and adjust with thread.</b> <b>**Small class**</b> (2X10') - Review, tactics and tricks: Trocar needle insertion, Loading the needle and transfixation through tissue, with <b>Dr. Dyego Benevenuto</b> - at the Laboratory
	<b>Coffe Break 03:10 pm – 03:25 pm</b>
	<b>Exercise 5.1 – 20' First step (Transfixation of the needle by the synthetic tissue)</b>
	<b>Exercise 5.2 – 20' Second Step (Double Transfixation)</b>
	<b>Exercise 5.3 – 20' Third step (Clockwise and counterclockwise)</b>
	<b>**Small class**</b> (2X10') - Review, tactics and tricks: <b>Transfixation of the needle by the synthetic tissue</b> , with <b>Dr.Dyego Benevenuto</b> - at the Laboratory
	<b>Exercise 5.4 – 20' Fourth step (##Challenge ## Parallel Transfixation)</b>
<b>Exercise 5.5 – 20' Forehand and Backhand</b>	
05:30 pm	End of the session

## SECOND DAY – April 03<sup>rd</sup>, 2018

8:00 am	Welcome
<b>THEORETICAL SESSION</b>	
<i>Chairmen: <u>Paulo Jiquiriça</u>, Daniela Balbino, Roberto Marcellus and Leonardo Ferraz</i>	
08:10 am (20 minutes)	6 - The suturing in laparoscopy: Knots Classification and suturing Techniques <span style="float: right;"><i>Jose Ciongoli</i></span>
08:30 am (5 minutes)	Discussion
08:35 am (15 minutes)	7 - Intracorporeal Knot Tying ( <b>Gladiator</b> technique and <b>Smile</b> technique) <span style="float: right;"><i>Croider Lacerda</i></span>
08:50 am (5 minutes)	Discussion
08:55 am (15 minutes)	8 - Intracorporeal Knot Tying <b>Szabo technique (C- Loop)</b> <span style="float: right;"><i>Paulo Bertulucci</i></span>
09:10 am (5 minutes)	Discussion
09:15 am (15 minutes)	9 - Intracorporeal Knot Tying ( <b>D - Loop</b> ) <span style="float: right;"><i>Dyego Benevenuto</i></span>
09:30 am (5 minutes)	
09:35 am (15 minutes)	9 - Common mistakes made in intracorporeal suturing <span style="float: right;"><i>Paulo Bertulucci</i></span>
09:55 am (5 minutes)	
10: 00 am – 10:20 am <b>Coffe Break</b>	
10:30 a 12:30 pm <b>EXPERIMENTAL LABORATORY – Laparoscopic training box</b> <i>Laboratory coordinator: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto</i>	
Exercises <b>All faculty and trainers</b>	<b>120' Exercise 6:</b> Intracorporeal Knot Tying ( <b>Gladiator</b> technique and <b>Gladiator's Smile</b> ) <b>**Small class**</b> (2 X 10') - Review and taking doubt laparoscopic intracorporeal <b>Gladiator</b> and <b>Smile</b> techniques with <b>Dr. Croider Lacerda</b> - In the Laboratory (Training box)
12:30 – 01:30 pm <b>Lunch</b>	
01:30 – 03:30 pm <b>EXPERIMENTAL LABORATORY – Laparoscopic training box</b> <i>Laboratory coordinator: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto</i>	
Exercise <b>All faculty and trainers</b>	<b>120' Exercise 7:</b> Intracorporeal Knot Tying ( <b>D – Loop</b> formation and <b>Smile</b> ) <b>**Small class**</b> (2 X 10') - Review and taking doubt laparoscopic intracorporeal <b>D-Loop</b> with <b>Dr. Paulo Bertulucci</b> - In the Laboratory (Training box)
03:30 – 03:45pm <b>Coffe Break</b>	
03:45 – 5:30 pm <b>EXPERIMENTAL LABORATORY – Laparoscopic training box</b> <i>Laboratory coordinator: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto</i>	
Exercise <b>All faculty and trainers</b>	<b>110' Exercise 8:</b> Intracorporeal Knot Tying ( <b>C – Loop</b> formation and <b>Smile</b> ) <b>**Small class**</b> (2 X 10') - Review and taking doubt laparoscopic intracorporeal <b>C-Loop</b> techniques with <b>Dr. Dyego Benevenuto</b> - In the Laboratory (Training box)
05:30 pm <b>End of the session</b>	

<b>THIRD DAY – April 04<sup>th</sup>, 2018</b>	
08:00 am	Welcome
<b>THEORETICAL SESSION</b>	
<b>Chairmen: <u>Fábio Madureira</u>, Douglas Furtado, Paulo Jiquiriça and Gastão</b>	
08:10 am (15 minutes) 10 – Continuous Suturing	<i>Croider Lacerda</i>
08:25 am (5 minutes) Discussion	
08:30 am (15 minutes) 11 – Suturing at difficult angles	Dyego Benevenuto
08:45 am (5 minutes) Discussion	
08:50 am (15 minutes) 12 – Complications in laparoscopic suturing	<i>Jose Ciongoli</i>
09:05 am (5 minutes) Discussion	
09:20 am (10 minutes) 13 – extracorporeal Knot Tying	<i>Fábio Madureira</i>
09:35 am (5 minutes) Discussion	
<b>09:40 – 10:00 pm Coffe Break</b>	
<b>10:00 am a 12:30pm Laboratory coordinator: Croider Lacerda, Paulo Bertulucci and Dyego Benevenuto</b>	
<b>All faculty and trainers</b>	<b>120' Exercises of continuous suturing</b>
	20' Exercise 9.1 - Traction and grip
	20' Exercise 9.2 – Schimieden's or Bell's continuous suturing
	<b>**Small class**</b> (2 X 10') - Review and taking doubt laparoscopic intracorporeal continuous suturing with <b>Croider Lacerda</b> - In the Laboratory - (Training box)
	20' Exercise 9.3 - Cushing's continuous suturing
	20' Exercise 9.4 – Continuos suturing With V- Loc
<b>**Small class**</b> (2 X 10') - Review and taking doubt laparoscopic intracorporeal continuous suturing with V-Loc, <b>Dr. Paulo Bertulucci</b> - In the Laboratory - (Training box)	
20' Exercise 9.5 - Continuous suturing with traction of the assistant surgeon	
20' Exercise 11 - Simple continuous suturing (Kirschner's suturing)	
<b>60' Exercise 10: Exercises of suture at difficult angles</b>	
<b>**Small class**</b> (2 X 10') - Review and taking doubt laparoscopic intracorporeal difficult angles with <b>Diego Benevenuto</b> - In the Laboratory - (Training box)	
<b>12:30 – 01:30 pm Lunch</b>	
<b>01:00 – 04:30 pm EXPERIMENTAL LABORATORY – BLACK BOX</b>	
<b>Laboratory coordinator: Croider Lacerda, Paulo Bertulucci</b>	
<b>All faculty and trainers</b>	<b>**Small class**</b> (2 X 10') - Review and taking (extracorporeal Knot Tying) with <b>Fábio Madureira</b> - In the Laboratory - (Training box)
	<b>Exercise 6 - 30' Extracorporeal Knot Tying</b>
	<b>7x 30' Exercise- Technical review (Free exercises)</b>
	<b>Exercise 7 - 30' Gladiator's and Smile's technique</b>
	<b>Exercise 8 - 30' C-Loop formation and D-Loop formation</b>
<b>Exercise 11 - 30' Simple continuous suturing (Kirschner's suturing)</b>	
<b>4:30 pm End of the course</b>	