

Clinical trial results:

Effect of sevoflurane and propofol on hepato-splanchnic pressure and flow during hepatobiliary surgery.

Summary

| EudraCT number | 2017-000071-90 |
|--------------------------------|-----------------|
| Trial protocol | BE |
| Global end of trial date | 27 January 2018 |
| Results information | |
| Result version number | v1 (current) |
| This version publication date | 01 May 2020 |
| First version publication date | 01 May 2020 |

Trial information

| Trial identification | | |
|------------------------------|--------------|--|
| Sponsor protocol code | AGO/2017/002 | |
| Additional study identifiers | s | |
| ICDCTN number | | |

| ISRCTN number | - |
|------------------------------------|-------------|
| ClinicalTrials.gov id (NCT number) | NCT03772106 |
| WHO universal trial number (UTN) | - |

Notes:

| Sponsors | | |
|------------------------------|--------------------------------|--|
| Sponsor organisation name | Ghent University Hospital | |
| Sponsor organisation address | C Heymanslaan 10 Ghent Belgiur | |

| Sponsor organisation address | C. Heymanslaan 10, Ghent, Belgium, |
|------------------------------|--|
| | Bimetra Clinics, Ghent University Hospital, Bimetra.Clinics@uzgent.be |
| | Bimetra Clinics, Ghent University Hospital, Bimetra.Clinics@uzgent.be |

Notes:

| Paediatric | regulatory | details |
|-------------------|--------------|---------|
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| Is trial part of an agreed paediatric investigation plan (PIP) | No |
|--|----|
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

| Results analysis stage | |
|--|------------------|
| Analysis stage | Final |
| Date of interim/final analysis | 10 December 2018 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 27 January 2018 |
| Global end of trial reached? | Yes |
| Global end of trial date | 27 January 2018 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

Primary objective of the study is to compare the effect of sevoflurane and propofol on hepato-splanchnic pressure and blood flow during hepatobiliary surgery. We hypothesized that sevoflurane induces a dose-dependent reduction of hepato-splanchnic blood flow, while propofol increases hepato-splanchnic blood flow.

Protection of trial subjects:

Ethics review and approval, informed consent, supportive care and routine monitoring.

Background therapy: -

Evidence for comparator: -

| Actual start date of recruitment | 08 June 2017 |
|---|--------------|
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

Subjects enrolled per age group

| Country: Number of subjects enrolled | Belgium: 18 |
|--------------------------------------|-------------|
| Worldwide total number of subjects | 18 |
| EEA total number of subjects | 18 |

Notes:

| In utero | 0 |
|---|---|
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 8 |

10

From 65 to 84 years 85 years and over

Subject disposition

Recruitment

Recruitment details:

35 patients were screened in the period from 08-Jun-2017 till 27-Jan-2017. 29 patients were included, 27 patients were randomised. 18 patients were included and completed the trial. End of trial notification was dated 27-Jan-2018 (last patient last visit) and submitted to EC and CA 16-Nov-2108.

Pre-assignment

Screening details:

Inclusion Criteria

- adult >+ 18 years (Female or Male)
- ASA I-II-III
- -able to comprehend, sign and date the written consent document to participate in the clinical trial
- sheduled for hepato-biliary surgery

| Period 1 | | |
|---|---------------------------------|--|
| Period 1 title | overall trial (overall period) | |
| Is this the baseline period? | Yes | |
| Allocation method | Randomised - controlled | |
| Blinding used | Not blinded | |
| Arms | | |
| Are arms mutually exclusive? | Yes | |
| Arm title | group S | |
| Arm description: | | |
| Sevoflurane | | |
| Arm type | Experimental | |
| Investigational medicinal product name | Sevoflurane | |
| Investigational medicinal product code | | |
| Other name | | |
| Pharmaceutical forms | Inhalation solution | |
| Routes of administration | Inhalation use | |
| Dosage and administration details: | | |
| Sevoflurane will be titrated according to BIS value between 45-55, which is an adequate depth of anesthesia for surgery | | |
| Arm title | group P | |
| Arm description: | | |
| propofol 1% | | |
| Arm type | Experimental | |
| Investigational medicinal product name | propofol | |
| Investigational medicinal product code | | |
| Other name | | |
| Pharmaceutical forms | Emulsion for injection/infusion | |
| Routes of administration | Intravenous use | |

Dosage and administration details:

Propofol will be titrated according to a Bispectral Index (BIS) value between 45-55, which is an adequate depth of anesthesia for surgery

| Number of subjects in period 1 | group S | group P |
|--------------------------------|---------|---------|
| Started | 9 | 9 |
| Completed | 9 | 9 |

Baseline characteristics

| Reporting groups | | |
|------------------------------|---------|--|
| Reporting group title | group S | |
| Reporting group description: | | |
| Sevoflurane | | |
| Reporting group title | group P | |
| Reporting group description: | • | |
| propofol 1% | | |

| Reporting group values | group S | group P | Total |
|---|----------------------|-----------------|-------|
| Number of subjects | 9 | 9 | 18 |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 4 | 4 | 8 |
| From 65-84 years | 5 | 5 | 10 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 63.9 | 63.6 | |
| standard deviation | ± 12 | ± 5.4 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 3 | 4 | 7 |
| Male | 6 | 5 | 11 |
| smoker | | | |
| Units: Subjects | | | |
| smoker | 5 | 1 | 6 |
| non-smoker | 4 | 8 | 12 |
| ASA (American Society of Anaestesiologist physical status) | | | |
| Units: Subjects | | | |
| ASA I | 0 | 1 | 1 |
| ASA II | 6 | 3 | 9 |
| ASA III | 3 | 5 | 8 |
| Somatostatin | | | |
| Patients received somatostatin at 250 g | h-1 to reduce pancre | atic secretion. | T |
| Units: Subjects | | | |
| yes | 5 | 4 | 9 |
| no | 4 | 5 | 9 |

| Tour. | T | | |
|--------------------------|-------|-------|---|
| BMI | | | |
| Units: kg/m ² | | | |
| arithmetic mean | 23.3 | 25.2 | |
| standard deviation | ± 2.5 | ± 2.5 | - |
| length | | | |
| Units: cm | | | |
| arithmetic mean | 169.8 | 169.1 | |
| standard deviation | ± 7.9 | ± 8.8 | ı |
| Systolic Blood Pressure | | | |
| Units: mmHg | | | |
| arithmetic mean | 125 | 133 | |
| standard deviation | ± 16 | ± 12 | - |
| Diastolic Blood Pressure | | | |
| Units: mmHg | | | |
| arithmetic mean | 76 | 78 | |
| standard deviation | ± 11 | ± 7 | - |
| Heart Rate | | | |
| Units: bpm | | | |
| arithmetic mean | 73 | 72 | |
| standard deviation | ± 10 | ± 2 | - |
| weight | | | |
| Units: kg | | | |
| arithmetic mean | 67.4 | 72.0 | |
| standard deviation | ± 9.9 | ± 7.5 | - |

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mmHg | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 8.7 (± 2.7) | 10.1 (± 6.0) | |
| T2 | 9.9 (± 4.4) | 6.0 (± 3.1) | |
| Т3 | 8.6 (± 5.2) | 8.3 (± 4.2) | |

No statistical analyses for this end point

Primary: P. Cava

End point title P. Cava^[3]

End point description:

End point type Primary

End point timeframe:

P. Cava measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[3] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mmHg | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 5.4 (± 3.2) | 6.4 (± 2.9) | |
| T2 | 6.7 (± 3.9) | 5.4 (± 2.6) | |
| Т3 | 7.2 (± 2.6) | 6.7 (± 4.4) | |

Statistical analyses

No statistical analyses for this end point

Primary: Pulsatility Index (PI PV)

End point title Pulsatility Index (PI PV)^[4]

End point description:

End point type Primary

EU-CTR publication date: 01 May 2020

End point timeframe:

PI PV measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[4] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: non-applicable | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 0.5 (± 0.3) | 0.4 (± 0.2) | |
| T2 | 0.5 (± 0.3) | 0.3 (± 0.2) | |
| Т3 | 0.5 (± 0.2) | 0.5 (± 0.2) | |

Statistical analyses

No statistical analyses for this end point

Primary: Pulsatility Index (PI HA)

End point title Pulsatility Index (PI HA)^[5]

End point description:

End point type Primary

End point timeframe:

PI HA measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[5] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: non-aplicable | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 1.7 (± 0.9) | 1.4 (± 0.9) | |
| T2 | 1.5 (± 0.7) | 1.4 (± 0.6) | |
| Т3 | 1.5 (± 0.5) | 1.4 (± 0.7) | |

Statistical analyses

No statistical analyses for this end point

| Primar | y: tota | l HBF |
|--------|---------|-------|
|--------|---------|-------|

End point title total HBF^[6]

End point description:

| End point type | Primary |
|----------------|---------|
| | |

End point timeframe:

Total HBF measured at baseline (T1), post-resection (T2) and pre-reconstruction (T3)

Notes:

[6] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: ml/min | | | |
| arithmetic mean (standard deviation) | | | |
| t1 | 1003 (± 411) | 997 (± 344) | |
| T2 | 860 (± 318) | 937 (± 231) | |
| Т3 | 943 (± 225) | 998 (± 264) | |

Statistical analyses

No statistical analyses for this end point

| Primary: PVF |
|---------------------|
|---------------------|

| End point title | PVF ^[7] |
|-----------------|--------------------|

End point description:

| End point type | Primary |
|----------------|---------|
| | |

End point timeframe:

PVF measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[7] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: ml/min | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 790 (± 317) | 760 (± 275) | |
| T2 | 612 (± 218) | 687 (± 203) | |
| Т3 | 704 (± 137) | 714 (± 210) | |

Statistical analyses

No statistical analyses for this end point

Primary: HAF

| End point title | HAF ^[8] |
|------------------------|--------------------|
| End point description: | |

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|-----------------------|-----------|
| End point type | II)riman/ |
| 1 1101 1201111 1 2120 | IPIIIIAIV |
| Lina point type | |

End point timeframe:

HAF measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[8] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: ml/min | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 212 (± 138) | 237 (± 150) | |
| T2 | 247 (± 199) | 249 (± 110) | |
| Т3 | 239 (± 149) | 284 (± 101) | |

Statistical analyses

No statistical analyses for this end point

Primary: Rel. HAF

| End point title | Rel. HAF ^[9] |
|-----------------|-------------------------|
| • | |

End point description:

| End point type | Primary |
|----------------|---------|
| | |

End point timeframe:

Rel. HAF measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[9] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: percentage | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 4.1 (± 3.4) | 4.8 (± 2.8) | |
| T2 | 4.4 (± 3.7) | 4.6 (± 1.9) | |
| Т3 | 4.6 (± 3.5) | 5.3 (± 2.0) | |

Statistical analyses

No statistical analyses for this end point

Primary: Rel. PVF

End point title Rel. PVF^[10]

End point description:

End point type Primary

End point timeframe:

Rel. PVF measured at baseline (T1), post resection (T2) and pre reconstruction (T3)

Notes:

[10] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: no statistical analysis available

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: percentage | | | |
| arithmetic mean (standard deviation) | | | |
| T1 | 15.9 (± 9.4) | 15.2 (± 5.2) | |
| T2 | 11.1 (± 5.3) | 12.8 (± 3.7) | |
| Т3 | 12.8 (± 3.8) | 13.1 (± 3.8) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Mean Arterial Pressure (MAP)

End point title Mean Arterial Pressure (MAP)

End point description:

End point type Secondary

End point timeframe:

MAP measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mmHg | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 80 (± 11.3) | 80 (± 8.7) | |
| T1 | 69 (± 10.2) | 82 (± 9.5) | |
| T2 | 74 (± 8.6) | 76 (± 5.3) | |
| Т3 | 76 (± 8.6) | 82 (± 4.5) | |
| T4 | 70 (± 7.6) | 75 (± 5.4) | |

No statistical analyses for this end point

Secondary: Heart Rate (HR)

| End point title | Heart Rate (HR) |
|-----------------|-----------------|

End point description:

| End point type | ICocondon. |
|----------------|---------------------------------|
| End point type | ISecondary |
| p/ p | [· · · · · · · · · · · · · · · |

End point timeframe:

HR measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: bpm | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 60 (± 9.1) | 60 (± 9.6) | |
| T1 | 78 (± 14.0) | 75 (± 12.5) | |
| T2 | 80 (± 10.9) | 79 (± 9.9) | |
| Т3 | 79 (± 12.3) | 77 (± 8.3) | |
| T4 | 79 (± 10.1) | 76 (± 9.8) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Central Venous Pressure (CVP)

| End point title | Central Venous Pressure (CVP) |
|-----------------|-------------------------------|
| | |

End point description:

| End point type | Secondary |
|------------------|-----------|
| Liiu poiiit type | Secondary |

End point timeframe:

CVP measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mmHg | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 10 (± 3) | 7 (± 2) | |
| T1 | 5 (± 2) | 5 (± 2) | |
| T2 | 5 (± 4) | 5 (± 1) | |
| Т3 | 6 (± 2) | 4 (± 2) | |
| T4 | 6 (± 1) | 5 (± 2) | |

No statistical analyses for this end point

Secondary: Cardiac Index (CI)

End point title Cardiac Index (CI)

End point description:

End point type Secondary

End point timeframe:

CI measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: I/(min.m²) | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 2.6 (± 0.5) | 2.5 (± 0.3) | |
| Т1 | 3.1 (± 0.8) | 2.7 (± 0.4) | |
| Т2 | 3.3 (± 0.6) | 3.0 (± 0.5) | |
| Т3 | 3.2 (± 0.6) | 3.0 (± 0.4) | |
| T4 | 3.3 (± 0.9) | 3.0 (± 0.4) | |

EU-CTR publication date: 01 May 2020

Statistical analyses

No statistical analyses for this end point

| Secondary: | Dulco | Droceuro | Variation | |
|------------|-------|----------|-----------|-------|
| Secondary: | Puise | Pressure | variation | (PPV) |

End point title Pulse Pressure Variation (PPV)

End point description:

| End point type | Secondary |
|---------------------|-----------|
| End point timeframe | |

End point timeframe:

PPV measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: percentage | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 5 (± 2.9) | 6 (± 2.3) | |
| T1 | 8 (± 4.6) | 9 (± 4.0) | |
| T2 | 10 (± 5.6) | 9 (± 1.7) | |
| Т3 | 8 (± 5.8) | 8 (± 3.0) | |
| T4 | 8 (± 5.2) | 7 (± 2.1) | |

Statistical analyses

No statistical analyses for this end point

Secondary: lactate

| End point title | lactate |
|------------------|---------|
| Life point title | lactate |

End point description:

| End point type | Secondary |
|----------------|-----------|
|----------------|-----------|

End point timeframe:

lactate measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mg/dL | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 9.7 (± 1.8) | 8.7 (± 1.7) | |
| T1 | 12.2 (± 3.8) | 8.9 (± 1.5) | |
| T2 | 16.3 (± 6.8) | 10.1 (± 2.7) | |
| Т3 | 18.2 (± 8.4) | 10.5 (± 2.9) | |
| T4 | 22.4 (± 8.4) | 12.5 (± 5.3) | |

No statistical analyses for this end point

| _ | _ | | _ | |
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End point title PaCO2

End point description:

End point type Secondary

End point timeframe:

PaCO2 measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mmHg | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 41 (± 6.5) | 40 (± 5.7) | |
| T1 | 42 (± 5.9) | 42 (± 4.5) | |
| T2 | 43 (± 4.8) | 41 (± 6.1) | |
| Т3 | 42 (± 5.1) | 42 (± 3.3) | |
| T4 | 40 (± 3.0) | 40 (± 2.0) | |

Statistical analyses

No statistical analyses for this end point

Secondary: pH

End point title pH

End point description:

End point type Secondary

End point timeframe:

pH measured at baseline (T0 and T1), post resection (T2), pre reconstruction (T3) and end of surgery (T4)

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: non applicable | | | |
| arithmetic mean (standard deviation) | | | |
| ТО | 7.35 (± 0.07) | 7.38 (± 0.05) | |
| T1 | 7.34 (± 0.05) | 7.36 (± 0.05) | |

| T2 | 7.33 (± 0.05) | 7.35 (± 0.05) | |
|----|---------------|---------------|--|
| Т3 | 7.35 (± 0.06) | 7.34 (± 0.04) | |
| T4 | 7.35 (± 0.06) | 7.36 (± 0.02) | |

No statistical analyses for this end point

Secondary: amount of bloodloss

End point title amount of bloodloss

End point description:

End point type Secondary

End point timeframe:

from start of surgery until end of surgery

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: ml | | | |
| arithmetic mean (standard deviation) | 689 (± 448) | 567 (± 212) | |

Statistical analyses

No statistical analyses for this end point

Secondary: amount of colloids given during surgery

End point title amount of colloids given during surgery

End point description:

End point type Secondary

End point timeframe:

from start of surgery until end of surgery

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: ml | | | |
| arithmetic mean (standard deviation) | 1078 (± 441) | 1067 (± 500) | |

No statistical analyses for this end point

Secondary: need of ephedrine

End point title need of ephedrine

End point description:

End point type Secondary

End point timeframe:

from start of anesthesia until end of anesthesia

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mg | | | |
| arithmetic mean (standard deviation) | 10.3 (± 5.6) | 5.3 (± 3.3) | |

Statistical analyses

No statistical analyses for this end point

Secondary: need of phenylephrine

End point title need of phenylephrine

End point description:

End point type Secondary

End point timeframe:

from start anesthesia until end of anesthesia

| End point values | group S | group P | |
|--------------------------------------|-----------------|-----------------|--|
| Subject group type | Reporting group | Reporting group | |
| Number of subjects analysed | 9 | 9 | |
| Units: mg | | | |
| arithmetic mean (standard deviation) | 0.37 (± 0.4) | 0.16 (± 0.1) | |

No statistical analyses for this end point

| Secondary | v need | of nor | adrenaline |
|-----------|----------|---------|---------------|
| Secondary | y. IIEEu | 01 1101 | aui eiiaiiiie |

End point title need of noradrenaline

End point description:

End point type Secondary

End point timeframe:

from start of anesthesia until end of anesthesia

| End point values | group S | group P | | |
|------------------|---------|---------|--|--|
|------------------|---------|---------|--|--|

Adverse events

Adverse events information[1] Timeframe for reporting adverse events: overall study Assessment type Non-systematic **Dictionary used** CTCAE Dictionary name Dictionary version 5.0 **Reporting groups** Reporting group title group S Reporting group description: group P Reporting group title Reporting group description: -

Notes:

[1] - There are no non-serious adverse events recorded for these results. It is expected that there will be at least one non-serious adverse event reported.

Justification: No non-serious adverse events were recorded for the participating patients

| Serious adverse events | group S | group P | |
|---|-----------------------------|------------------------------|---|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 9 (0.00%) | 1 / 9 (11.11%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Hepatobiliary disorders | | | |
| Biliary anastomosis complication | Additional description: Bil | e duct leakage after surgery | , |
| subjects affected / exposed | 0 / 9 (0.00%) | 1 / 9 (11.11%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

Frequency threshold for reporting non-serious adverse events: 5 %

| Non-serious adverse events | group S | group P | |
|---|---------------|---------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 0 / 9 (0.00%) | 0 / 9 (0.00%) | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported