

Structural Reform Support Service

Project

SRSS/S2019/021

EU SRSS PROJECT Ist TRAINING WORKSHOP ON AMBULATORY SURGERY UNDER THE AUSPICES OF THE INTERNATIONAL ASSOCIATION FOR AMBULATORY SURGERY (IAAS) & THE HUNGARIAN ASSOCIATION FOR AMBULATORY SURGERY (HAAS)

5/12/2019, HOTEL FLAMENCO, BUDAPEST





EU SRSS PROJECT FOR DEVELOPING DAY SURGERY IN HUNGARY

5/12/2019, Hotel Flamenco, Budapest

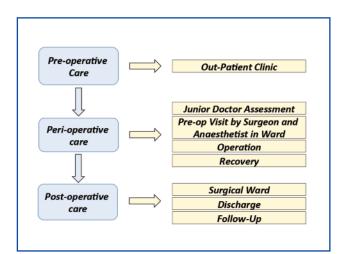
08:30-09:00	Registration
09:00-09:10	Opening Doug McWhinnie, Gabriella Pál, Gamal Mohamed
09:30-10:10	Opening plenary <i>Doug McWhinnie:</i> Initial overview of day/ambulatory surgery pathway
10:10-10:30	Coffee break
10:30-12:00	Discussions of outbreak groups:
	a) Anaesthetic: guided by <i>Jan Eshuis,</i> HAAS expert: <i>Zsolt Iványi, Göböl Zsolt</i>
	b) Preassessment group, guided by: <i>Ian Jackson,</i> HAAS Expert: <i>Janecskó Mária, Mészáros János</i>
	c) Surgical group, guided by: <i>Doug McWhinnie,</i> HAAS expert: <i>Gamal Mohamed</i>
12:00-12:45	Lunch
12:45-14:15	Interactive workshops 8 groups (4 participants from each hospital: surgeon, anaesthesiologist, nurse, manager)
	Pathway topics to be discussed: selection criteria, procedure selection, preassessment, operating list scheduling, discharge protocols, and help at home.
	Aim: to work out an action Plan to address short, medium and longer term change. Please form an action presentation
	Circulating facilitators: Doug McWhinnie, Ian Jackson, Jan Eshuis, Mária Janecskó, Zsolt Göböl, Zsolt Iványi, János Mészáros, Gamal Mohamed
14:15-15:35	Action plan presentations for each hospital (5 min. presentation + 5 min. discussion)
15:35	Closure

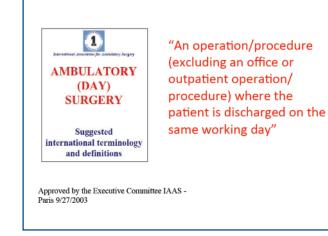




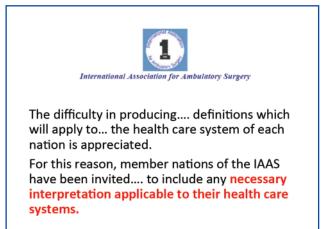
















Ambulatory Surgery Current Membership Countries IAAS
Corresponding Members

Day Surgery Definition

'A surgical day case is a patient who is admitted for an operation on a planned non-resident basis and who nonetheless requires facilities for recovery. The whole procedure should not require an overnight stay in a hospital bed'.



Day Surgery as the new paradigm of surgery / Danish Regions 2013 / 2

Ambulatory Surgery Definition

"Chirurgie Ambulatoire" is defined as the group of surgical procedures [...] that are planned and carried out under technical conditions that require the safety of an operating room, using a variety of types of anaesthetic and followed by postoperative monitoring that enables the patient to be discharged on the day of the procedure, without increased risk."



Day Surgery Definition

"Day surgery is the admission of selected patients to hospital for a *planned* surgical procedure, returning home on the same day.

Day Surgery: Operational Guide. DoH, London,2002



Day Surgery Definition

Day-surgery patient : A patient having an elective surgical intervention that requires a full operating theatre facility, excluding an office intervention, who is admitted and discharged on the same day.



Leroy R, Camberlin C, Lefèvre M, Mistiaen P, Van den Heede K, Van de Sande S, Van de Voorde C, Beguin C. Proposals for a further expansion of day surgery in Belgium – Short report. Health Services Research (HSR) Brussels: Belgian Health Care wledge Centre (KCE). 2017. KCE Reports 282Cs. D/ 2017/10.273/08





Day Surgery Definition

Definition

The current definition of Day Surgery used by clinicians in Hungary includes an overnight stay. We recommend that the definition of Day Surgery be updated to remove mention of overnight stay and so brought in line with international standards. This definition should

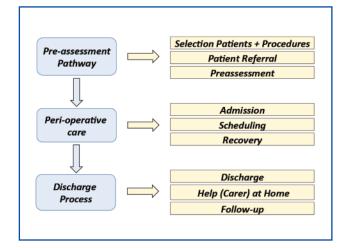
be adopted across the private and public sector.

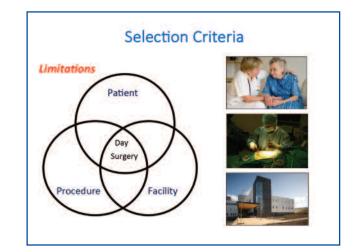


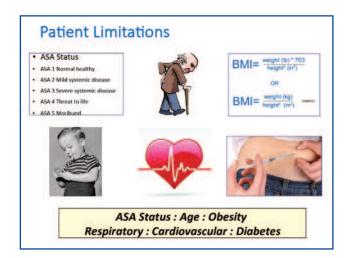




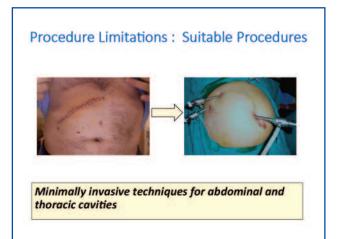


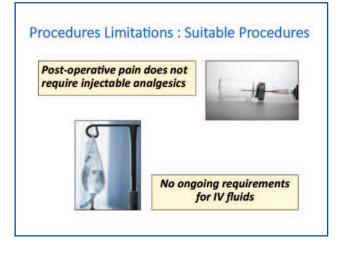
















Procedure Limitations : Suitable Procedures

Low risk of postoperative complications

Haemorrhage

Reactionary - occurs after 4-6 hours with mobilisation
ligature slippage
clot displacement
cessation of vasospasm after mobilisation
Secondary – occurs after >24 hours
infection eroding a vessel

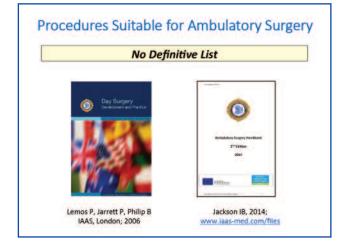
Procedures Limitations : Suitable Procedures



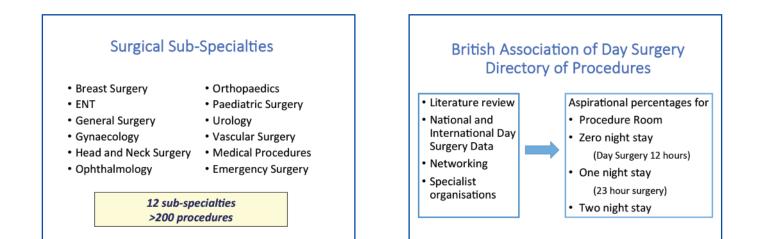
Operation time maximum about 2 hours with minimum 4 hours recovery before discharge

Degree of surgical trauma more important than duration of the procedure











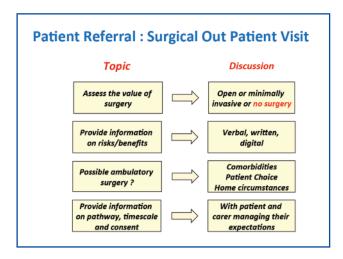


Target		GENERAL Descriptisa	Procedure	Zero zight stay	One night stay	Two night stay
Percentages for		Laparoscopic repair of histus hernis with anti-reflux procedure	Room	20 20	90 State	30 30
	V	Laparoscopic gastric banding		50	90	
Length of Stay		Transanal excision of lesion of anus	40	35	35	
Management		Repair of rectal mucosal prolapse		90	30	
wanagement		Excision, idestruction of lesion of anus		100		
		Haemorrhoidectomy including stapled		300		
		Injection or banding of haemoerholds	100			
	,	Treatment of anal fistula including seaton suture		95	5	
		Excision/treatment of anal fissure		100		
BADS DIRECTORY		Flionidal sinus surgery -laying open or auture/skin graft		95	5	
of	N	Diagnostic laparoscopy		90	10	
PROCEDURES		Laparoscopic cholesystectomy		75	85	
Sixth Edition	V	Frimary repair of inguinal bornia		90	10	
Sixth Edition		Sepair of recorrent inguinal hemia		90	10	
		Frimary repair of femoral hernia		95	5	
		Repair of umbilical hernia		90	10	
	$ \longrightarrow $	Laparoscopic repair of incisional hemia		40	93	30
		Excision biopsy of lymph node for diagnosis (cervical, inguinal, axiilary)		95	5	

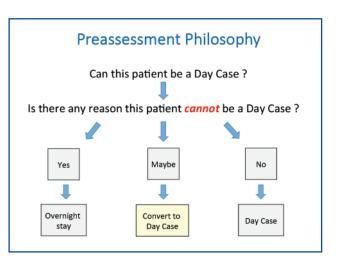


- Total 60 Inpatient Bed Days
 - otal oo mpatient bed Days

Patient Referral : Health Screen Presenting complaint Past medical history / comorbidities Medication and allergies Blood pressure Body mass index Diagnostics











Preassessment Format

One-stop at surgical clinic Interval preassessment

- Telephone - Face-to-face
- On-line

Anaesthetic assessment



Preassessment Investigations

Routine preassessment investigations on healthy patients is unnecessary (and costly) Czoski-Murray C et al Health Technol Assess 2012 Dec;16(50):i-xvi, 1-159.



Structured history and targeted examination performed by experienced nursing staff required www.nice.org.uk/guidance/ng45

Preassessment Investigations

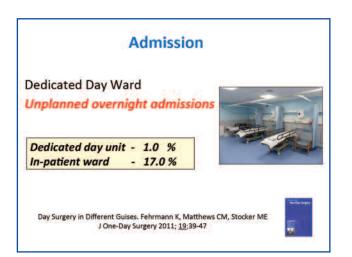
Safe and cost-effective preassessment based on algorithms

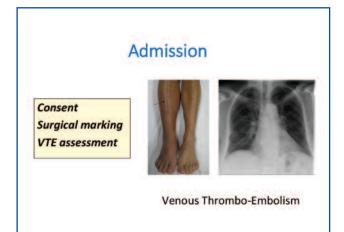
Targeted investigations



Complexity of surgery : Minor, Intermediate, Major Fitness of patient : ASA 1, 2 or 3 Age of patient

Timing of Preassessment Early Late Preassessment validity Availability Patient relocates Unforeseen comorbidities Patient changes mind Procedure not required Volume Volume Unfilled Theatre Slot









All Elective Admissions : Assessing the Risk of VTE Prophylaxis required if :-

Risk factors

- Cancer

- Age > 60 BMI > 30

Surgical patients

- Operation > 90 minutes
- Operation > 60 minutes
 if pelvis or lower limb
- Acute abdomen
- Expected reduction in mobility
- One or more risk factors
- Significant comorbidities - Dehydration - Thrombophilia
- History VTE (self or 1 degree relative
- HRT or oestrogen contraception
- NICE. Venous Thromboembolism: reducing the risk (CG92) London:NICE 2010



VTE Assessment and Prophylaxis

Is it required in Ambulatory Surgery ?



Age > 60 BMI > 30 Operation > 90 minutes Operation > 60 minutes (lower limb) One or more medical comorbidities 1st degree relative VTE

VTE Assessment and Prophylaxis

Norfolk and Norwich Hospital, England 57000 patients 54 months Day Surgery General anaesthetic

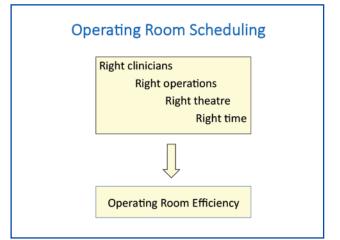
37 of 57000 (0.065%) Varicose Vein incidence

Overall incidence

9 of 825 (1.0%)

How often does venous thromboembolism occur after day surgery and is the number of risk factors associated with increased risk? Lipp et al Journal of One-Day Surgery,2016, 26(2),28-30



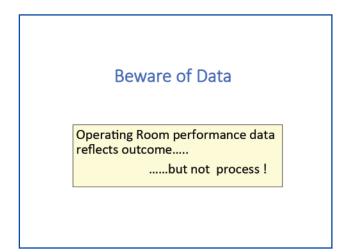


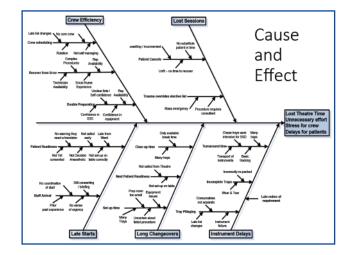
			iency M	e through	
	22 Aug	29 Aug	05 Sept	12 Sept	19 Sept
Sessions Scheduled	15	12	18	14	18
Sessions Held	9	6	17	13	17
Time Available (mins)	1890	1260	3570	2730	3570
Time used (mins)	1949	1195	3384	2935	3917
% Utilisation - Sessions	60	50	94	93	94
% Utilisation - Time	103	95	95	108	110
% Utilisation - Total	62	47	90	100	104
Operations Done	23	12	38	32	32
Operations done / list	2.6	2.0	2.2	2.5	1.9



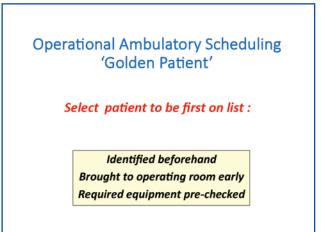


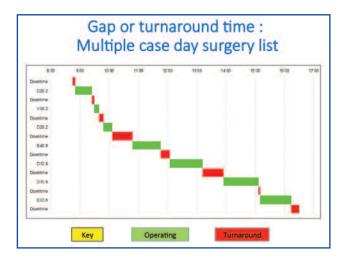












Operating Theatre Gap Time

Example

Issue

Insufficient Theatre Staff

Planning

Surgical work pressure Unplanned clinical event

Scrub and non-scrub staff Inappropriate skill mix Altered list order Equipment unavailable Low stock levels Surgeon 'multitasking'

Delay in wakening patient





Operating Theatre Utilisation Time

Time	%
Anaesthetic	18
Theatre Preparation	14
Operating	62
Under-run	6

Operating 62% of an 8 hour day = 5 hours

Orchard M, Ellams J, McWhinnie D What do we mean by 'Theatre Utilisation'? Journal One Day Surgery 2010:<u>20</u>:4-6

Operating Theatre Scheduling



Operational Ambulatory Scheduling

Dedicated day case list (max 12 hours stay)

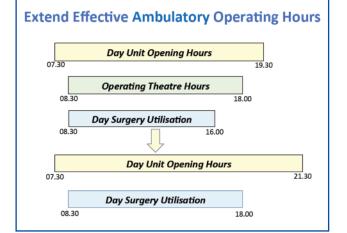
- morning day cases
- afternoon day cases
- Dedicated short stay list

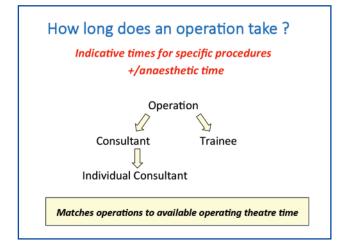
- morning day cases

- afternoon overnight stay (same-day admission)

Mixed day case and major cases for inpatient stay

- day case first in morning before major case
- day case after major case







Prioritise list order according to :

Recovery time Diabetes Other medical comorbidities Prone procedures Young or old







Session Utilisation

Lock down Ambulatory List : Staff, patient, theatre availability



WEEK 2	Milton Keynes University Hospital NHS Foundation Trust Theatre Schedule							locked down 13-4-2-1				
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Discharge

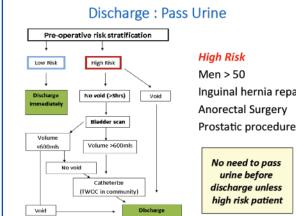
Protocol-based discharge



Verma R, Alladi R, Jackson I et al. Day case and short stay surgery. Anaesthesia 2011;66:417-34. Anaesthesia

Discharge Criteria

Vital signs stable Orientation Pain controlled Minimal PONV Minimal wound bleeding Oral analgesics supplied **Understands** medication Cannula removed Ability to dress and walk Written & oral instructions Pass urine Escort to take them home Carer at home for 24 hrs



Inguinal hernia repair Prostatic procedures

Transfer home

Responsible Adult

- ill-defined
- accountable and competent Maximum Journey Time - one hour's travel
- Avoid Public transport ?





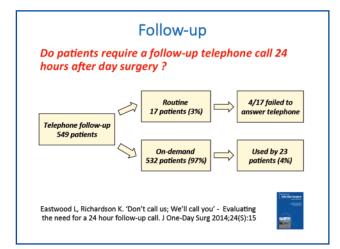


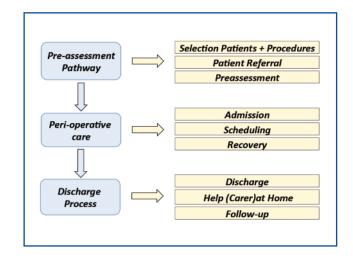




Help at Home Official UK National Health Service guidance 'It's a good idea to have an adult available to help you for at least 24 hours after surgery' www.nhs.uk/Conditions/surgery/Pages/after-surgery.aspx WESS choices www.nhs.uk/Conditions/surgery/Pages/after-surgery.aspx Many patients falsely claim to have help at home the first night after surgery











Surgical Breakout Group Programme

Introductions: Surgical delegates introduce themselves and indicate their surgical specialty. They also state what they want from this session. (DMcW+GEM) 10 minutes

Short presentation on procedures suitable for day surgery. (DMcW) 5 minutes

Discussion: Each delegate to write down the 7 most common procedures they perform and indicate which and how many they could convert to day surgery. Each delegate can explain their individual barriers to the group with group discussion. (LvO) 15 minutes

Short presentation on operating room scheduling (DMcW) 5 minutes

Discussion: Efficient Scheduling discussed regarding creating a list order for day case patients based on clinical history. Each delegate to create a list order and why.....remembering there are no correct answers. (DMcW, GEM, LvO) 25 minutes

If time.....

Short presentation on operating room turnaround time (DMcW) 5 minutes

Discussion: Group discussion on slow patient turnaround and how to improve it. (DMcW, LvO, GEM) 25 minutes







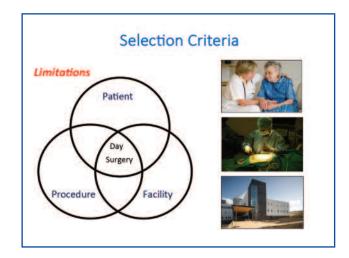
Procedures Suitable for Day Surgery

Day Surgery Definition

Definition

The current definition of Day Surgery used by clinicians in Hungary includes an overnight stay. We recommend that the definition of Day Surgery be updated to remove mention of overnight stay and so brought in line with international standards. This definition should be adopted across the private and public sector. This will require updating of the Rule Book and Minister Decree No. 16/2002. (XII. 12.).





Facility Limitations

Stand alone unit

Dedicated ward and operating theatre Transfer unplanned overnight admissions

Integrated hospital unit

Dedicated ward and operating theatre Dedicated ward, use main operating theatre

- Beds, trolleys and chairs

Emergency admissions block day ward



Procedure Limitations : Suitable Procedures

Minimally invasive techniques for abdominal and thoracic cavities

Post-operative pain does not require IV/IM analgesics

No ongoing requirements for IV fluids

Low risk of postoperative complications

Operation time maximum about 2 hours

About 4 hours recovery before safe discharge





Day Surgery Contemport and Partor	
	reduced.

Procedures Suitable for Ambulatory Surgery

UK Audit Commission's B	asket of Procedures 2000
	 D&C / Hysteroscopy
•Cataract Extraction	Nasal Fractures
 Excision Breast Lump 	 Myringotomy
 Carpal Tunnel Decompression 	•Laparoscopic Cholecystectomy
•Bat Ears	 Excision of Ganglion
•R/O Metalwork	•Hernia Repair
 Bunion Operations 	•Varicose Veins
 Laparoscopy 	 Dupuytren's Contracture
 Tonsillectomy 	 Haemorrhoidectomy
•TURBT	•Circumcision
•Squint Correction	•Arthroscopy
•Orchidopexy	•SMR
•Anal Fissure	 Termination of pregnancy

Procedures Suitable for Ambulatory Surgery

AAS COHORT OF AMBULATORY SURGERY PROCEDURES FOR 2017

F0R 2017 Orthopaedic: Knee anthroccopy including meniscectomy, menicadi or other repair, Removal of Done implants (removal of Internal fination from bone / joint excluding K-wites); Bunion operations with or without internal fination and soft issue correction; capal Junne Release, Duputters's fascientomy General surgery: Laparoscopic Cholesystectmu, Laparoscopic repair of histurb termina with and-reflexa procedure log fundeplication Haemornholdectomy, Pimany inguinal hemia repair Breast surgery; Web local exclusion of breast with or without sullary node biopsy; Mattectomy with or without axillary node homo:

Urology: Orchidopeny, Endoscopic resection of prostate (TUR) – can include laser surgery, Endoscopic excision of lesion of bladder Specialist surgery: Hemithyroidectomy; partial thyroidectomy; posterior excision of lumbar disc prolapse including cectomy

Problems with index procedures

- The index procedures represent only 30% of all Day Surgery activity
- · Listing index procedures may exclude other routine procedures which are possible as day cases
- Requires regular updating
- No recognition of the Short Stay Pathway
- No recognition for innovation

Short Stay Equation

Scenario I

- 100 Laparoscopic Cholecystectomies
 - 50 Day Cases
 - 30 Overnight Admission 20 Two Night Admission
- Total 70 Inpatient Bed Days

Scenario II

- 100 Laparoscopic Cholecystectomies
 - 40 Day Cases
 - 60 Overnight Admission
- Total 60 Inpatient Bed Days

Day Case Nephrectomy

Day Case Surgery is World First

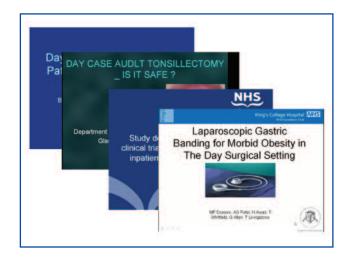
Without realising it until after the event, one of our surgeons recently performed the world's first laparoscopic nephrectomy (the removal of a kidney by keyhole surgery) as a day case eventies. operation.



The keyhole operation was first performed in 1991 and has since become common practice, but has normally involved a two or three day stay in hospital. On this occasion, however, the operation went very well as normal, but the patient recovered so quickly and was so keen to go home the same day that the surgeon, Anurag Golash, agreed.

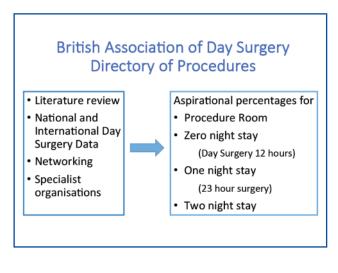




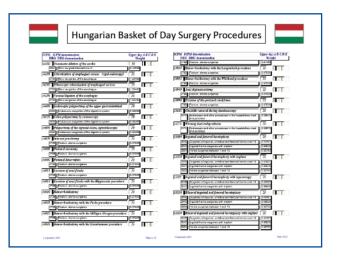








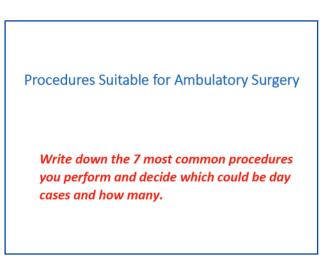
		GENERAL				
Target		Description	Procedure Room	Zero night stay	One night stay	Two night stay
Percentages for	$ \longrightarrow $	Laparoscopic repair of histos hernia with anti-cellux procedure		20	70	10
	,	Laparoscopic gastric banding		50	50	
Length of Stay		Transanal excision of lesion of anas	40	26	25	
Management		Repair of sectal mucosal prolapse		90	80	
wanagement		Excision/destruction of lesion of anus		100		
		Haemontholdectomy including stapled		100		
		Injection or banding of hasencerhoids	100			
	,	Treatment of anal fistula including seaton suture		95	6	
		Excision/treatment of and fosure		100		
BADS DIRECTORY		Flienidal since surgery -laying open or subare/skin graft		95	5	
of		Disgnostic lapaceacopy		90	10	
PROCEDURES		Laparoscopic cholarystectomy		75	25	
Sixth Edition		Primary repair of inguinal hernia		90	10	
556 C		Repair of securrent inguinal hernia		90	30	
		Frimary repair of Semoral hornia		95	s	
		Fepair of umbilical hernla		90	30	
	$ \rightarrow $	Laparoscopic repair of incisional hernia		40	50	10
		Excision biopsy of lymph node for diagnosis (cervical, inguinal, axillary)		95	8	

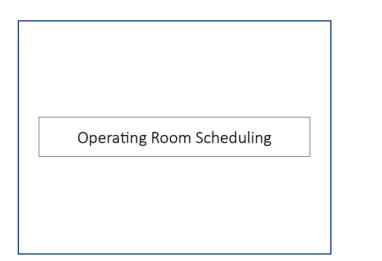


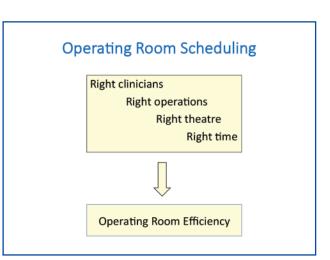




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1000		Open allows, no regular
	Excision of manumery lesions	exercised with all permit implementar. If there is a history of cancel







Operational Ambulatory Scheduling Dedicated day case list (max 12 hours stay) - morning day cases - afternoon day cases Dedicated short stay list - morning day cases - afternoon overnight stay (same-day admission) Minud day case and main second for identifications

Mixed day case and major cases for inpatient stay

- day case first in morning before major case
- day case after major case

Operational Ambulatory Scheduling 'Smart Planning'

Prioritise list order according to :

Recovery time Diabetes Other medical comorbidities Prone procedures Young or old







Operational Ambulatory Scheduling 'Smart Planning'

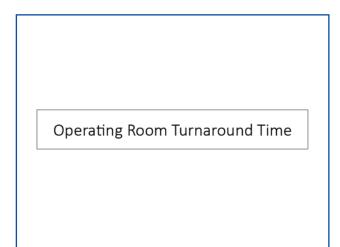
Put these patients in a day surgery all-day operating list order :

Explain your reasons....and remember there is no single correct answer!

Operational Ambulatory Scheduling 'Smart Planning'

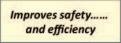
45 year old female for laparoscopic cholecystectomy with a BMI of 38
65 year old male for open inguinal hernia repair with coronary stent 9 months ago
38 year old lady for small (lesser, short) saphenous vein ligation with past history of DVT

29 year old man for excision of 15 cm diameter lipoma back of neck with Type I diabetes 82 year old female for open femoral hernia repair with rheumatoid arthritis on steroids



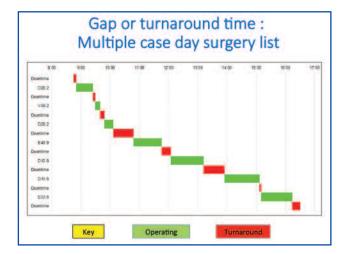
WHO Theatre Briefing and Checklist











Operating Theatre Gap Time

Example

Insufficient Theatre Staff	5
	I

Planning

Issue

Surgical work pressure Unplanned clinical event

Scrub and non-scrub staff Inappropriate skill mix Altered list order Equipment unavailable Low stock levels Surgeon 'multitasking' Delay in wakening patient





Operating Theatre Gap Time

Write down the most common reasons your operating list fails to start on time and think how it might be improved.

Write down the most common reasons for delays between cases and think how it might be improved.

Questions?





Nursing Breakout Group Programme

Introductions: Nursing delegates introduce themselves and indicate their current area of work. They also discuss what they would value from this session. (IJ) 10 minutes

Short presentation on preoperative assessment. (IJ) 10 minutes

Discussion: Each delegate to write down the 7 most common procedures they perform and indicate which and how many they could convert to day surgery. Each delegate can explain their individual barriers to the group with group discussion. 15 minutes

Short presentation on patient information (IJ) 10 minutes

Discussion: How nursing staff could support preoperative assessment process given constraints in Hungary.

If time.....

Short presentation Criteria led discharge (10 minutes)

Discussion: Group discussion on nursing involvement in discharge process









- Teamwork
- Can do attitude
 - How do I make this work
- Organisational abilities
- Good outcomes

Nursing roles

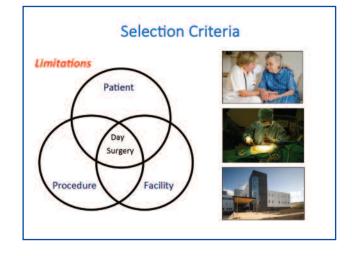
- Preoperative Assessment
- Admission
- Perioperative
- Scrub/Runner/Assistant
- Recovery
- Discharge
- · Post discharge follow up

Preoperative Assessment

Day Surgery Definition Definition The current definition of Day Surgery used by clinicians in Hungary includes an overnight stay. We recommend that the definition of Day Surgery be updated to remove mention of overnight stay and so brought in line with international standards. This definition should be adopted across the private

and public sector. This will require updating of the Rule Book and Minister Decree No. 16/2002. (XII. 12.).









Facility Limitations

Stand alone unit

Dedicated ward and operating theatre Transfer unplanned overnight admissions

Integrated hospital unit

Dedicated ward and operating theatre Dedicated ward, use main operating theatre - Beds, trolleys and chairs

Emergency admissions block day ward



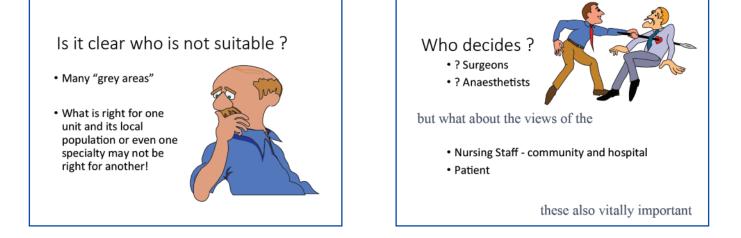
What is a day surgery patient?

- Why not everyone?
- Why not every operation?



Why not everyone ?

- We all think we know the answers to this one, we need to remove patients who
 - have problems with their social circumstances
 - are not fit for surgery or anaesthesia
 - have any one of a number of specific contraindications for day surgery







High BMI

What are the ambulatory surgical patient selection criteria in Canada? Friedman Z, Wong DT, Chung F. Can J Anesth 2003; 50(Suppl): A16 (abstract).

Survey of Canadian anaesthesiologists

91% regarded otherwise healthy patients with a BMI of 35-44 as acceptable for ambulatory care

50% regarding a BMI > 45 as similarly feasible



'Obesity is not an absolute contraindication for day care in expert hands and with appropriate resources.'

Hypertension

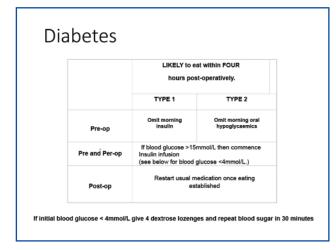
There is little evidence for an association between admission arterial pressures of less than 180 mmHg systolic or 110 mmHg diastolic and Perioperative complications

> Hypertension, hypertensive heart disease and perioperative cardiac risk Howell SJ, Sear JW & Foëx P. BJA:2004;9: 570-583

Systematic review and meta-analysis of 30 observational studies

Diabetes

- Inpatient surgery and blood sugar controlled with advice from diabetologist team
- No evidence that GKI is necessary following minor or intermediate surgery
- In fact we now no longer start GKI on any patient that will be able to eat within 4 hours





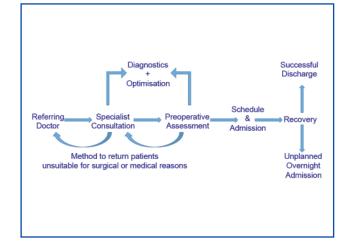




How do you decide if day case?

Assessment Clinic

- Anaesthetic staff
- Nursing staff





Functions of Preassessment

- Screening
- Answering patients and carers questions
- Provide written information about operation and anaesthetic
- Verbal reinforcement of this information

Information provided to patients

- Location of the Centre
- Items to bring on the day of operation
- Procedure for cancellation or inability to attend
- Contact number for communication with the Centre
- Date of operation and time of admission
- Approximate time of discharge
- Pre-operative preparation fasting, medication
- Post-operative management
- Car parking facilities
- Facilities for relatives or carers

Procedure specific information

- Description of procedure
- Description of recovery
- Pain management
- When can bath/shower
- When can return to work
- Who to contact if problem







I believe that a good day surgery nurse is one of the best nurses you can find, an excellent day surgery nurse is worth their weight in gold.

> Wendy Adams Australian Day Surgery Council

Questions ?

Nurse led discharge

The aim of Nurse-led discharge:

- to ensure a timely, effective discharge, improving discharge planning and reducing delays in the discharge process (patient reach discharge criteria according to appropriate protocols)
- · to facilitate discharge earlier in the day
- to avoid patients waiting unnecessarily (next Consultant round)
- to enable nurses' to develop confidence and maximize the use of their skills and knowledge
- to ensure practice is safe and does not put the patient at risk

Discharge criteria

Vital signs stable for at least 1 hour Correct orientation as to time, place and person Adequate pain control and has supply of oral analgesia Understands how to use oral analgesia supplied and has been given written information about these Ability to dress and walk where appropriate Minimal nausea, vomiting or dizziness Has at least taken oral fluids Minimal bleeding or wound drainage Has passed uring or wound drainage Has a nesponsible adult to take them home Has an agreed carer at home for next 24 hours Written and verbal instructions provided about postoperative care Knows when to come back for follow up (if appropriate) Emergency contact number supplied

Post Anaesthesia Discharge Scoring System (PADSS)

Systolic blood pressure	<20% of preoperative value	2
systeme brood pressure	20-40% of preoperative value	1
	>40% of preoperative value	ò
Ambulation	Walking without vertigo possible	2
	Walking with assistance possible	1
	No walking possible, vertigo	0
Nausea, Vomiting	Minor	2
	Moderate	1
	Severe	0
Pain	Minor (VAS 1-2)	2
	Moderate (VAS 3-4)	1
	Severe (VAS >4)	0
Bleeding	Minor	2
	Moderate	1
	Severe	0
PADSS-postanesthesia discharge so	asian autom	
PADSS-postanestnesia discharge sc	oring system	

Preoperative assessment is key to success in Day Surgery





Anesthetic Preassessment Breakout Group Programme

Introductions: Anesthetic delegates introduce themselves and indicate their current area of work. They also discuss what they would value from this session. 10 minutes

Discussion: Each delegate to indicate their anesthesiological selectioin criteria for Day Surgery. What are the criteria and exclusion criteria?

Each delegate can explain their individual barriers to the group with group discussion. 15 minutes

Short presentation on an approach to anesthetetic selection criteria for one day surgery (JHE) 20 minutes

Discussion: Who is responsible for anesthesic preassessment and who should execute it; what are anesthetic barriers now and possibly in the future? 15 minutes





Anesthetic Breakout Group Jan Eshuis and Luc van Outryve, IAAS Zsolt Iványi and Göböl Zsolt, HAAS

Preoperative assessment is key to success in Day Surgery

Day Surgery Definition

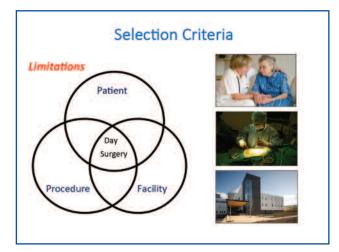
Definition

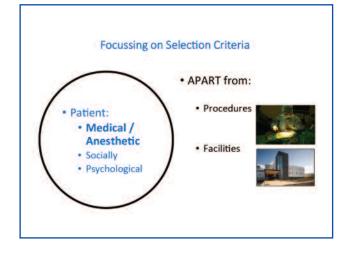
The current definition of Day Surgery used by clinicians in Hungary includes an overnight stay. We recommend that the definition of Day Surgery be updated to remove mention of overnight stay and so brought in line with international standards. This definition should be adopted across the private and public sector. This will require updating of the Rule Book and Minister Decree No. 16/2002. (XII. 12.).



Preassessment: when and who?

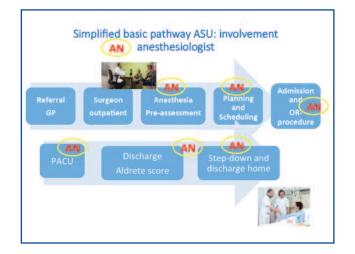
- Not on day of Surgery! >> then only final check
- Ideally 1-3 weeks before
- Direct contact, telephone, online query
- In conjunction with or after referral surgeon >>>
- separate anesthesiological consult
- Nurse and anesthesiologist
- Goal: Risk estimation, evaluation, improvement, p rovide information
- Med. hist. and phys. examination, evt. external consultations, lab, EKG <u>on indication</u>
- Informed consent, note that



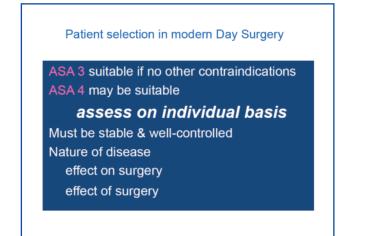






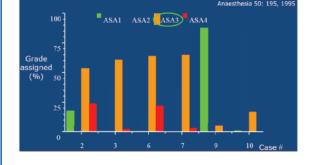


Patient selection in modern Day Surgery traditional criteria		
The Procedure	Duration, opening cavity, blood loss, pain, elective vs semi- acute,	
The Patient	Age: 3 mo, 6 mo, upper limit?, ASA, BMI to22, understanding, psychology, no substance abuse	
Social	Distance, Adult escort, Home situation GP, Phone, understanding	
The Facility	Hospital based, Freestanding Office based	

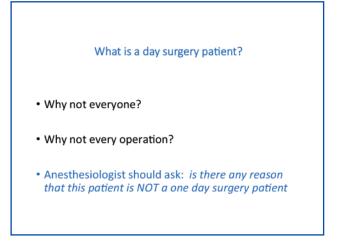


Havnes & Lawler – Anaesthesia 50: 195, 1995

ASA Classification a LIMITED instrument

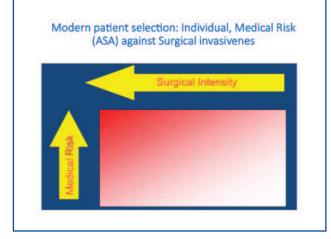






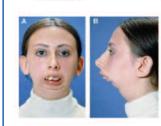






What conditions should be screened?

 Difficult Airway: be prepared



- · Prior anesth. history
- Physical examination
- Equipment
 - Supraglottic devices
 - Videolaryngoscopes
 - Fiberoptic bronchoscopes
- Call for help possible?

Common 'Comorbidities' and One Day Surgery which might rise questions

- Hypertension
- Diabetes Mellitus
- Obesity
- Obstructive Sleep Apnea OSAS
- Anticoagulating agents
- Frailty in the elderly
- Pregnancy
- Breast feeding

Hypertension

There is little evidence for an association between admission arterial pressures of less than 180 mmHg systolic or 110 mmHg diastolic and Perioperative complications

Medication: stop ACE inhibitors and Diuretics D.O.S. Rest medication continue; B-blocker

> Hypertension, hypertensive heart disease and perioperative cardiac risk Howell SJ, Sear JW & Foëx P. BJA:2004;9: 570-583

Systematic review and meta-analysis of 30 observational studies

Diabetes Mellitus

- Absolute compatible with One Day Surgery
- Cave comorbidities cardiac, renal function
- (preop assessment Na, K, Creat, HbA1c, EKG)
- Preop. GlucoseRecommendation 4-10 mmol/L
- Cancel when hyperglycemic syndromes
- D.O.S. Stop Methformin, Insulin
- Night dose previous OR: 75%
- D.O.S. soberness







Diabetes

- Inpatient surgery and blood sugar controlled with advice from diabetologist team
- No evidence that GKI is necessary following minor or intermediate surgery
- In fact we now no longer start GKI on any patient that will be able to eat within 4 hours

Real contraindications for One Day Surgery are patients who:

- · have problems with their social circumstances
- are not fit for surgery or anaesthesia
- have any one of a number of specific contraindications for day surgery

Obesity

The **Hungarian** Central Statistical Office revealed some shocking numbers: 54% of the **Hungarian** nation is **obese** or **overweight**. As it turns out, **Hungary** has the highest **obesity** rate in Europe, and only the people of the United States, Mexico and New-Zealand are heavier than **Hungarians**, Index.hu and Népszava report.

Is obesity a contra-indication for One Day Surgery?

NO!

(if without gross comorbidity)

Obesity

What are the ambulatory surgical patient selection criteria in Canada? Friedman Z, Wong DT, Chung F. Can J Anesth 2003; 50(Suppl): A16 (abstract).

Survey of Canadian anaesthesiologists

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50% regarding a BMI > 45 as similarly feasible



'Obesity is not an absolute contraindication for day care in expert hands and with appropriate resources.'

Obesity with and without comorbidities • Obesity BMI 30-50 without • Candidate for One Day Surgery • + Metabolic Syndrome (Ht, Hyperglycemia, central obesity, dyslipidemia) • Increased risk

• +OSAS, DM, CAD, ASA-

status

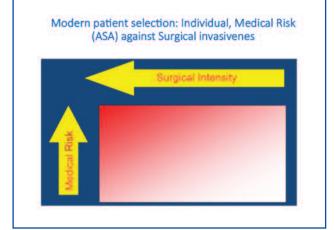
- Super-obesity BMI > 50
- Often underdiagnosed!
- Difficult airway, CPAP-mask
- No One Day Surgery (except very minor procedures?)
- In unstable comorbidities: no one day surgery....





STOP BANG questionnaire for OSAS estimation

Item	Question
1. Snoring	Do you snore loudly (louder than talking or loud enough to be heard through closed doors)?
2. Tired	Do you often feel tired, fatigued or sleepy during the daytime?
3. Observed	Has anyone observed you stop breathing during your sleep?
4. Blood Pressure	Are you being, or have been, treated for high blood pressure?
5. Body mass index	Is your body mass index > 35 kg/m ² ?
6. Age	Are you > 50 years old?
7. Neck circumference	Is your neck circumference > 40 cm?
8. Gender	Are you male?



Cardiovascular diseases and routine testing

- No routine EKG, US, cardiac function, lab
- Only on indication in active CV disease as
 - recent Myocardial Infarction <60 days,
 - unstable Angina Pectoris, ischemic heart disease:
 continue aspirin, statin, evt. beta-blocker
 - symptomatic arrhytmias > evaluation, optimisation carefully considerans anticoagualants
 - · severe aortic or mitral stenosis
 - heart failure class 4 no One Day surgery; ejection fraction > 30%

Pulmonary diseases in One Day Surgery

- Oxygen?
- Inhaler and other medication
- Physical fitness
- Coughing, secretions, fever
- Tests: art. bloodgas, X-
- thorax, VC and FEV1
- Asthma, COPD
- Smoking
 - Stop on or better 4 weeks before Day of surgery
 - Wound, CO > oxyHb

Elderly patients in one day surgery

- Less chance on delirium or cognitive dysfunction
- Chronic medication
 - Beta blockers cont., not starting; Statins
- Frailty
- Hypertension, smoking, hypecholesterol, ECG
- Congestive heart failure, EJF<35%
- Pulmonary: asthma, COPD, OSAS, CPAP therapy
- Social environment

Pregnancy and Breast Feeding

- Anesthesia not significant risk for mother and child
- However surgery increases risk on miscarriage or preterm labor
- Surgery only when necessary
- Fetal monitoring in ambulatory setting: pre-and postprocedural fetal heart rate and contractions before going home
- X
- Breastfeeding compatible with anesthesia and surgery
 Probably pump and discard milk prior to breast feeding





Liver, renal, thyroid diseased patients

• End stage renal patients:

- dialyse day before procedure, possibility lab electrolytes • Thyroid:
 - goiter, risk diff. airway; correction hyperthyroidism
- Liver disease:
 - Acute liver failure / hepatitis no candidates
 - Chronic liver disease: preop info, low Child-Pugh and MELD scores may undergo One Day surgery

Medication stop or continuing?

- Most chronic medication continued · esp. existing beta-blockers and statins
- Calcium-channel blockers +/-
- · Angiotensine converting enzyme Inhibitor and angiotensin-receptor-blockers for Ht stop on DOS.
- Anticoagulants
 - NOAC's stop 1 or 2 days before (renal function!)
 - Vit K-antagonists stop 5 days before (bridging?)
- Antiplatelet
 - · Clopidogrel, ticlopidine:
 - depending indication, cardiology
 - Aspirin
 - low dose continue for most procedures, stop 7 days before in use for primary prophylaxis without vascular disease



- Fasting
- Age ex prematurity
- Upper respiratory tract infections
- Sickle cell disease
- Congenital heart defects
- Malignant hyperthermia
- Down's syndrome



Selection and special attention in children premature infants

· Ex prematurity: apnea and periodic breathing Additional risks: anemia, hist. bradycardia and apnea

All ex-preterm infants with PCA <55 weeks include: 6 mths safe limit

Include all ex-preterm infants with anemia

PCA = Post Conceptual Age (in weeks)



CJ Coté, in Miller Anesthesia





infection airway





Selection children: heart murmur

 Pt with congenital heart defect, <u>proceed with one day</u> surgery treatment if:

> pathophysiology known clinically stable no decompensation no cyanosis (SaO2 <90% with FiO2 21%) Surgery limited influence, antibiotic prophylaxis



Selection children; Malignant Hyperthermia (MHS)

A One Day Surgery procedure at MHS-patient can if: Non triggering agents are used dantrolene present

Monitoring and blood gas analysis is possible Postop. at least 4 hours of recovery room time Good clinical care possible, "Hospital-based"





Selection in children: Down Syndrome

One Day Surgery as under control and are known:

Cong. heart defects ASD, VSD (60%); a.b.profylaxe pulmonary hypertension anatomy airways Airway irritability, bronchitis Atlanto-axial stability (10-20% different) Analgesia and sedation "Hospital-based"



Is it clear who is not suitable ?

- Many "grey areas"
- What is right for one unit and its local population or even one specialty may not be right for another!

