

The National Academy Of Clinical Biochemistry

Presents

LABORATORY MEDICINE PRACTICE GUIDELINES

**EVIDENCE BASED PRACTICE FOR
POINT OF CARE TESTING**

EVIDENCE BASED PRACTICE FOR POINT OF CARE TESTING

EDITOR

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Literature Search 1

Guideline 1 QA for POCT and Medical Errors Literature Search

Databases Searched:

Medline OVID (1966-October Week 5, 2003)

Search Criteria:

- | | | |
|---|---|---------|
| 1 | point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized | = 2524 |
| 2 | regulations OR standards OR quality assurance OR quality assessment OR EQA OR accreditation | = 74824 |
| 3 | error OR errors OR mistakes | = 80109 |
| 4 | 1 AND 2 AND 3 | = 7 |

Abstracts = 4 papers

Systematic Review = 1 paper

1 citation in final recommendations

Literature Search 2

Guidelines 2 – 5 POCT Management and Quality Literature Search

Databases Searched:

Pubmed

Search Criteria:

Point of Care Testing AND (management OR organization) = 92

Abstracts = 52 papers

Systematic Review = 10 papers

7 citations in final recommendations

Literature Search 3

Guideline 6 Transcutaneous Bilirubin Literature Search

Databases Searched:

Medline OVID (1966 – January 2004)

Search Criteria:

1	bilirubin AND transcutaneous	=	163
2	bilirubin AND non-invasive	=	102
3	bilirubin AND point of care	=	15
4	bilirubin AND length of stay	=	129
5	bilirubin AND clinical outcome	=	61

Abstracts = 407

Systematic Review = 24

3 citations in final recommendation

Literature Search 4**Guideline 7 Transcutaneous Bilirubin Frequency Literature Search**Databases Searched:

Medline OVID (1966 – January 2004)

Search Criteria:

1	bilirubin AND transcutaneous	=	163
2	bilirubin AND non-invasive	=	102
3	bilirubin AND point of care	=	15
4	bilirubin AND dermal	=	15

Abstracts = 244

Systematic Review = 55

29 citations in final recommendation

Literature Search 5

Guideline 8 Transcutaneous Bilirubin Limitations Literature Search

Databases Searched:

Medline OVID (1966 – January 2004)

Search Criteria:

- 1 bilirubin AND transcutaneous AND phototherapy = 59
- 2 bilirubin AND non-invasive AND phototherapy = 9
- 3 bilirubin AND transcutaneous AND ill = 1
- 4 bilirubin AND transcutaneous AND gestational age = 26
- 5 bilirubin AND non-invasive AND gestational age) = 5
- 6 bilirubin AND transcutaneous AND premature = 15
- 7 bilirubin AND non-invasive AND premature = 6

Abstracts = 74

Systematic Review = 43

18 citations in final recommendation

Literature Search 6**Guideline 9 Transcutaneous Bilirubin and Blood Sampling Literature Search**Databases Searched:

Medline OVID (1966 – January 2004)

Search Criteria:

1	bilirubin and transcutaneous AND infection	=	2
2	bilirubin AND non-invasive AND infection	=	7
3	bilirubin AND transcutaneous AND osteomyelitis	=	0
4	bilirubin and transcutaneous AND bleeding	=	1

Abstracts = 8

Systematic Review = 8

8 citations in final recommendation

Literature Search 7

Guideline 10 Transcutaneous Bilirubin Accuracy Literature Search

Databases Searched:

Medline OVID (1966 – January 2004)

Search Criteria:

(bilirubin AND transcutaneous AND serum) 163 results; OR

(bilirubin AND transcutaneous AND method) 33 results; OR

(bilirubin AND non-invasive AND method) 27 results

Abstracts = 181

Systematic Review = 77

36 citations in final recommendation

Literature Search 8

Guideline 11 Transcutaneous Bilirubin Cost Effectiveness Literature Search			
<u>Databases Searched:</u>			
Medline OVID (1966 – January 2004)			
<u>Search Criteria:</u>			
1	bilirubin AND transcutaneous AND cost	=	9
2	bilirubin AND non-invasive AND cost	=	4
Abstracts		=	10
Systematic Review		=	7
4 citations in final recommendation			

Literature Search 9

Guidelines 12 - 22 Cardiac Marker Literature Search

Databases Searched:

Medline (1966 through 27 August 2005)

CINHL (1982 to August Week 3 2005) no additional relevant literature

EMBASE (1988 to 2005 Week 35) no additional relevant literature

Search Criteria:

1	Explode Point-of-Care Systems	=	2277
2	Explode Biological Markers	=	314530
3	Explode Troponin	=	5842
4	2 OR 3	=	318789
5	1 AND 4	=	96
6	Review Articles (Not Examined)	=	19
7	Case Reports (Not Examined)	=	3
8	Comments and Letters (Not Examined)	=	9
9	Language other than English (Not Examined)	=	6
10	Biomarkers other than Cardiac Injury (Not Examined)	=	26
11	Metaanalysis (Not Examined)	=	0

Abstracts = 33

Systematic Review = 33

18 citations in final recommendation

Literature Search 10

Guidelines 23 – 24 aPTT Literature Search

Abstract = 114

Systematic Review = 35

16 citations in final recommendation

Literature Search 11

Guidelines 25 – 28 PT Literature Search

Abstract = 132

Systematic Review = 40

19 citations in final recommendation

Literature Search 12

Guidelines 29 – 36 ACT Literature Search

Abstract = 370

Systematic Review = 57

46 citations in final recommendation

Literature Search 13

Guideline 37 ABG TTAT Literature Search

Search Criteria:

- | | | |
|---|---|-----------|
| 1 | rapid laboratory results OR rapid test OR turnaround
time | = 29953 |
| 2 | intensive care OR critical care | = 73293 |
| 3 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = 2495257 |
| 4 | blood gases OR arterial gas OR ABG | = 45575 |
| 5 | 1 AND 2 AND 3 AND 4 | |

7 citations in final recommendation

Literature Search 14

Guideline 38 ABG in ICU Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 blood gases OR arterial gas OR ABG = 45575
- 6 1 AND 2 AND 3 AND 4 AND 5

9 citations in final recommendation

Literature Search 15

Guideline 39 ABG in ICU and Cost Effectiveness Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 (blood gases OR arterial gas OR ABG) AND (expense OR cost) = 311310
- 5 1 AND 2 AND 3 AND 4

2 citations in final recommendation

Literature Search 16

Guideline 40 ABG and ED TTAT Literature Search

Search Criteria:

- | | | |
|---|---|-----------|
| 1 | rapid laboratory results OR rapid test OR turnaround | |
| 2 | time | = 29953 |
| 3 | emergency department OR ED | = 211997 |
| 4 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = 2495257 |
| 5 | blood gases OR arterial gas OR ABG | = 45575 |
| 6 | 1 AND 2 AND 3 AND 4 AND 5 | |

1 citation in final recommendation

Literature Search 17

Guideline 41 ABG ED Outcomes Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 emergency department OR ED = 211997
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 blood gases OR arterial gas OR ABG = 45575
- 6 1 AND 2 AND 3 AND 4 AND 5

5 citations in final recommendation

Literature Search 18

Guideline 42 ABG TTAT Cardiac Surgery Literature Search

Search Criteria:

- | | | | |
|---|--|---|---------|
| 1 | rapid laboratory results OR rapid test OR turnaround time | = | 29953 |
| 2 | cardiac surgery OR congenital heart surgery | = | 23242 |
| 3 | improvement OR reduction OR benefit OR morbidity OR mortality OR adverse | = | 2495257 |
| 4 | blood gases OR arterial gas OR ABG | = | 45575 |
| 5 | 1 AND 2 AND 3 AND 4 | | |

5 citations in final recommendation

Literature Search 19

Guideline 43 ABG Cardiac Surgery Outcomes Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 cardiac surgery OR congenital heart surgery = 23242
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 blood gases OR arterial gas OR ABG = 45575
- 6 1 AND 2 AND 3 AND 4 AND 5

2 citations in final recommendation

Literature Search 20

Guideline 44 Glucose TTAT Literature Search

Search Criteria:

- | | | |
|---|---|-----------|
| 1 | rapid laboratory results OR rapid test OR turnaround
time | = 29953 |
| 2 | intensive care OR critical care | = 73293 |
| 3 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = 2495257 |
| 4 | glucose | = 274635 |
| 5 | 1 AND 2 AND 3 AND 4 | |

31 citations in final recommendation

Literature Search 21

Guideline 45 Glucose Outcomes Literature Search

Search Criteria:

- | | | | |
|---|--|---|---------|
| 1 | point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory | = | 6135 |
| 2 | rapid laboratory results OR rapid test OR turnaround time | = | 29953 |
| 3 | intensive care OR critical care | = | 73293 |
| 4 | improvement OR reduction OR benefit OR morbidity OR mortality OR adverse | = | 2495257 |
| 5 | glucose | = | 274635 |
| 6 | 1 AND 2 AND 3 AND 4 AND 5 | | |

1 citation in final recommendation

Literature Search 22

Guideline 46 Lactate TTAT Literature Search

Search Criteria:

- | | | | |
|---|---|---|---------|
| 1 | rapid laboratory results OR rapid test OR turnaround
time | = | 29953 |
| 2 | intensive care OR critical care | = | 73293 |
| 3 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = | 2495257 |
| 4 | lactate | = | 91783 |
| 5 | 1 AND 2 AND 3 AND 4 | | |

34 citations in final recommendation

Literature Search 23

Guideline 47 Lactate Outcomes Literature Search

Search Criteria:

- | | | | |
|---|--|---|---------|
| 1 | point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory | = | 6135 |
| 2 | rapid laboratory results OR rapid test OR turnaround time | = | 29953 |
| 3 | intensive care OR critical care | = | 73293 |
| 4 | improvement OR reduction OR benefit OR morbidity OR mortality OR adverse | = | 2495257 |
| 5 | lactate | = | 91783 |
| 6 | 1 AND 2 AND 3 AND 4 AND 5 | | |

1 citation in final recommendation

Literature Search 24

Guideline 48 Mg TTAT Literature Search

Search Criteria:

- | | | | |
|---|---|---|---------|
| 1 | rapid laboratory results OR rapid test OR turnaround
time | = | 29953 |
| 2 | intensive care OR critical care | = | 73293 |
| 3 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = | 2495257 |
| 4 | magnesium | = | 71753 |
| 5 | 1 AND 2 AND 3 AND 4 | | |

60 citations in final recommendation

Literature Search 25

Guideline 49 Mg Outcomes Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 magnesium = 71753
- 6 1 AND 2 AND 3 AND 4 AND 5

0 citations in final recommendation

Literature Search 26

Guideline 50 Oxygen Saturation TTAT Literature Search

Search Criteria:

- | | | |
|---|---|-----------|
| 1 | rapid laboratory results OR rapid test OR turnaround
time | = 29953 |
| 2 | intensive care OR critical care | = 73293 |
| 3 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = 2495257 |
| 4 | oxygen saturation | = 15461 |
| 5 | 1 AND 2 AND 3 AND 4 | |

4 citations in final recommendation

Literature Search 27

Guideline 51 Oxygen Saturation Outcomes Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 oxygen saturation = 15461
- 6 1 And 2 AND 3 AND 4 AND 5

0 citations in final recommendation

Literature Search 28

Guideline 52 carboxyhemoglobin Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 carboxyhemoglobin = 2991
- 6 1 AND 2 AND 3 AND 4 AND 5

3 citations in final recommendation

Literature Search 29

Guideline 53 Methemoglobin Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 methemoglobin = 4750
- 6 1 AND 2 AND 3 AND 4 AND 5

3 citations in final recommendation

Literature Search 30

Guideline 54 Electrolyte ED Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 emergency department OR ED = 211997
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 electrolytes = 306136
- 6 1 AND 2 AND 3 AND 4 AND 5

8 citations in final recommendation

Literature Search 31

Guideline 55 Electrolyte ICU Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 intensive care OR critical care = 73293
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 electrolytes = 306136
- 6 1 AND 2 AND 3 AND 4 AND 5

2 citations in final recommendation

Literature Search 32

Guideline 56 iCA ED Literature Search

Search Criteria:

- 1 point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory = 6135
- 2 rapid laboratory results OR rapid test OR turnaround time = 29953
- 3 emergency department OR ED = 211997
- 4 improvement OR reduction OR benefit OR morbidity OR mortality OR adverse = 2495257
- 5 ionized calcium = 3928
- 6 1 AND 2 AND 3 AND 4 AND 5

2 citations in final recommendation

Literature Search 33

Guideline 57 iCa OR Literature Search

Search Criteria:

- | | | | |
|---|--|---|---------|
| 1 | point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory | = | 6135 |
| 2 | rapid laboratory results OR rapid test OR turnaround time | = | 29953 |
| 3 | surgery OR operating room | = | 475135 |
| 4 | improvement OR reduction OR benefit OR morbidity OR mortality OR adverse | = | 2495257 |
| 5 | ionized calcium | = | 3928 |
| 6 | 1 AND 2 AND 3 AND 4 AND 5 | | |

1 citation in final recommendation

Literature Search 34

Guideline 58 iCa ICU Literature Search

Search Criteria:

- | | | | |
|---|---|---|---------|
| 1 | rapid laboratory results OR rapid test OR turnaround
time | = | 29953 |
| 2 | intensive care OR critical care | = | 73293 |
| 3 | improvement OR reduction OR benefit OR morbidity
OR mortality OR adverse | = | 2495257 |
| 4 | ionized calcium | = | 3928 |
| 5 | 1 AND 2 AND 3 AND 4 | | |

3 citations in final recommendation

Literature Search 35

Guideline 59 iCa ICU Outcomes Literature Search

Search Criteria:

- | | | | |
|---|--|---|---------|
| 1 | point of care testing OR bedside testing OR ancillary testing OR near patient testing OR NPT OR POCT OR decentralized testing OR STAT laboratory OR satellite laboratory | = | 6135 |
| 2 | rapid laboratory results OR rapid test OR turnaround time | = | 29953 |
| 3 | intensive care OR critical care | = | 73293 |
| 4 | improvement OR reduction OR benefit OR morbidity OR mortality OR adverse | = | 2495257 |
| 5 | ionized calcium | = | 3928 |

5 citations in final recommendation

Literature Search 36

Guideline 60 – 63 Glucose Self-Testing Outcomes Literature Search

Databases Searched:

PubMed 1966 to December 2003

Search Criteria:

1	primary next health next care	=	646
2	general next practice	=	473
3	family next practice	=	579
4	health next centre	=	303
5	health next center	=	896
6	community next care	=	780
7	primary health care	=	40852
8	primary health care[mh]	=	35717
9	primary health care[tiab]	=	7841
10	1 OR 2 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9	=	43333
11	diabetes next mellitus	=	639
12	diabetes mellitus[mh]	=	164269
13	diabetes mellitus	=	188463
14	11 OR 12 OR 13	=	188463
15	((blood next glucose) AND self-monitoring)	=	17
16	((blood glucose) AND self-monitoring)	=	1958
17	15 OR 16	=	1958
18	10 AND 17	=	33
19	10 AND 14 AND 17	=	33

Literature Search 37**Guidelines 60 – 63 Glucose Self-Testing Outcomes Literature Search**Databases Searched:

The Cochrane Library, December 2003

Search Criteria:

1	(primary next health next care)	= 1459
2	(general next practice)	= 2661
3	(family next practice)	= 2194
4	(health next centre)	= 465
5	(health next center)	= 474
6	(community next care)	= 308
7	(1 or 2 or 3 or 4 or 5 or 6)	= 6075
8	(diabetes next mellitus)	= 7259
9	((blood next glucose) and self-monitoring)	= 196
10	(7 and 8 and 9)	= 10
11	(7 and 9)	= 12

Literature Search 38

Guideline 64 - 65 Glucose Testing Hospital Outcomes Literature Search

Databases Searched:

PubMed 1966 to December 2003

Search Criteria:

1	point-of-care	= 2344
2	point-of-care next testing	= 13
3	point next care next testing	= 26
4	point next care	= 225
5	near-patient AND testing	= 148
6	near-patient NEXT testing	= 3
7	blood NEXT glucose	= 654
8	blood glucose	= 85581
9	7 OR 8	= 85770
10	1 OR 2 OR 3 OR 4 OR 5 OR 6	= 2618
11	9 AND 10	= 118

Literature Search 39

Guideline 64 – 65 Glucose Testing Hospital Outcomes Literature Search

Databases Searched:

The Cochrane Library, December 2003

Search Criteria:

1	point-of-care	= 106
2	(point-of-care next testing)	= 9
3	(point next care next testing)	= 18
4	(point next care)	= 116
5	(near-patient and testing)	= 11
6	(near-patient next testing)	= 8
7	(blood next glucose)	= 6646
8	(1 or 2 or 3 or 4 or 5 or 6)	= 126
9	(7 and 8)	= 8

Literature Search 40

Guideline 66 - 67 Gestational Glucose Testing Outcomes Literature Search

Databases Searched:

PubMed 1966 to December 2003

Search Criteria:

1	primary next health next care	=	646
2	general next practice	=	473
3	general next practicefamily next practice	=	473
4	family next practice	=	579
5	health next centre	=	303
6	health next center	=	896
7	community next care	=	780
8	primary health care	=	40852
9	primary health care[mh]	=	35717
10	primary health care[tiab	=	7841
11	primary health care[tiab]	=	7841
12	1 OR 2 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10	=	43333
13	diabetes next mellitus	=	639
15	diabetes mellitus[mh]	=	164269
16	diabetes mellitus	=	188463
18	13 OR 15 OR 16	=	188463
19	((blood next glucose) AND self-monitoring)	=	17
20	((blood glucose) AND self-monitoring)	=	1958
21	19 OR 20	=	1958
22	12 OR 21	=	45258
23	12 AND 21	=	33
24	point-of-care	=	2344
25	point-of-care next testing	=	13
26	point next care next testing	=	26
27	point next care	=	225
28	near-patient AND testing	=	148
29	near-patient NEXT testing	=	3
30	blood NEXT glucose	=	654
31	blood glucose	=	85581
32	30 OR 31	=	85770
33	24 OR 25 OR 26 OR 27 OR 28 OR 29	=	2618
34	32 AND 33	=	118
35	pregnan*	=	545714
36	pregnancy	=	529786
37	35 OR 36	=	547242
41	gestational diabetes	=	3606
42	gestational next diabetes	=	29
43	41 OR 42	=	3614
45	43 AND 37	=	3404
48	34 AND 37 AND 43	=	1

Literature Search 41

Guideline 66 - 67 Gestational Glucose Testing Outcomes Literature Search

Databases Searched:

The Cochrane Library, December 2003

Search Criteria:

1	point-of-care	=	106
2	(point-of-care next testing)	=	9
3	(point next care next testing)	=	18
4	(point next care)	=	116
5	(near-patient and testing)	=	11
6	(near-patient next testing)	=	8
7	(blood next glucose)	=	6646
8	(1 or 2 or 3 or 4 or 5 or 6)	=	126
9	(7 and 8)	=	8
10	pregnan*	=	13866
11	(gestational next diabetes)	=	153
12	(9 and 11)	=	1
13	(9 and 10)	=	2
14	(12 or 13)	=	2

Literature Search 42

Guideline 68 - 71 HgbA1c Outcomes Literature Search

Databases Searched:

Medline from 1990 to May 2004

Search Criteria:

1	Blood Chemical Analysis/ or Clinical Laboratory Information Systems/ or Laboratories, Hospital/ or Patients' Rooms/ or Point-of-Care Systems/ or point-of-care testing.mp. or "Laboratory Techniques and Procedures"/	= 25100
2	point of care testing.mp.	= 324
3	MONITORING, PHYSIOLOGIC/	= 32365
4	(point adj3 care).mp. [mp=title, original title, abstract, name of substance, mesh subject heading]	= 1668
5	test\$.mp. [mp=title, original title, abstract, name of substance, mesh subject heading]	= 1086908
6	4 and 5	= 659
7	1 or 2 or 3 or 6	= 57270
8	((glycated or glycosylated) adj5 (haemoglobin or hemoglobin)).mp. [mp=title, original title, abstract, name of substance, mesh subject heading]	= 11378
9	Hemoglobin A, Glycosylated/ or haemoglobin a.mp.	= 9725
10	(Hb A1c or Hb A or A1c).mp. [mp=title, original title, abstract, name of substance, mesh subject heading]	= 2638
11	8 or 9 or 10	= 13386
12	7 and 11	= 250
13	limit 12 to yr=1990-2004	= 160
14	from 13 keep 1-160	= 160
15	(quality control or quality assurance).mp. [mp=title, original title, abstract, name of substance, mesh subject heading]	= 38565
16	13 and 15	= 14
17	(13 and 15) not 14	= 0
18	Pathology, Clinical/ or Diagnostic Tests, Routine/ or Family Practice/ or near patient testing.mp.	= 48063
19	(near adj patient).mp. [mp=title, original title, abstract, name of substance, mesh subject heading]	= 251
20	(near adj patient adj5 test\$.mp)	= 183
21	18 or 20	= 48117
22	21 and 11	= 135
23	22 not 12	= 131
24	limit 23 to yr=1990-2004	= 123
25	from 24 keep 1-123	= 123

Literature Search 43

Guideline 72 – 75 Fructosamine Literature Search

Databases Searched:

Highwire Jan 1948 – April 2003 and Pubmed Jan 1963 – April 2003

Search Criteria:

- | | | |
|----|----------------------------------|--------|
| 1. | Fructosamine | = 1344 |
| 2. | Home monitoring AND fructosamine | = 20 |

Abstract = 20 papers

Systematic review = 5 papers

4 citations in final recommendations

Literature Search 44

Guideline 76 – 78 Blood Ketones Literature Search

Databases Searched:

Pubmed 1966 – March 2004

Search Criteria:

- | | |
|--|----------|
| 1. Ketones [MESH] or ketone bodies [MESH]
or 3-hydroxybutyric acid [MESH] | = 55855 |
| 2. Diabetes [FTXT] or diabetic [FTXT] | = 235591 |
| 3. #1 AND #2 | = 2019 |
| 4. Ketone [TITIE WORD] and #2 | = 226 |
| 5. #3 and #4 | = 2057 |
| 6. #5 and ENGLISH LANGUAGE | = 1712 |
| 7. First review of 1712 citations | = 200 |
| 8. Relevant citations of 200 citations | = 19→18 |

Literature Search 45

Guideline 79 - 82 Urine Albumin in Diabetics Literature Search

Databases Searched:

Pubmed Jan 1968 – Jan2004

Search Criteria:

Terms from set 1 were individually crossed with terms from set 2.

Set 1: microalbumin, microalbuminuria, albumin:creatinine ratio, diabetic nephropathy, and albumin excretion; and

set 2: poc, poct, point of care, point of care testing, clinic, office, physician office laboratory, and pol.

When more than 40 references were identified in any initial cross of a set 1 and set 2 terms, the additional search term ‘outcome’ was added to the set 1 and set 2 terms to focus the search.

Systematic Review = 141

In addition four recent review articles concerning POCT and microalbuminuria were examined (186-188,197).

Literature Search 46**Guideline 83 – 108 Drugs of Abuse in Urine Literature Search**Databases Searched:

Medline 1966 – November 2003

Embase

Cochrane Database

Search Criteria:

(Point of Care Testing OR Near Patient Testing OR)

AND (Drugs OR Opiate* OR Cocaine OR Cannabis OR Ethanol OR Alcohol

OR Benzodiazepine* OR Amphetamine* OR MDA OR MDMA OR Ecstasy

OR Drugs of Abuse OR Substance Abuse)

Abstracts = 151 papers

Systematic Review = 100 papers

81 Citations in final recommendations

Literature Search 47

Guideline 109 Bioterrorism Agent Literature Search

Databases Searched:

Medline Ovid (1966 to June Week 3 2004)

Search Criteria:

1	Bioterrorism and testing	=	38
2	Tularemia and rapid testing	=	0
3	Tularemia(microbiology, classification; pathology diagnosis; epidemiology	=	257
4	Brucella and rapid testing	=	0
5	Anthrax and point of care testing	=	0
6	Point of care and bioterrorism	=	0
7	Anthrax	=	1118
8	Plague (microbiology, diagnosis, pathology, etiology; transmission)	=	313
9	brucella (classification; isolation and purification)	=	170
10	Brucellosis (classification; pathology; diagnosis; microbiology)	=	597
11	Smallpox (diagnosis; transmission; microbiology)	=	184
12	Coccidioides and bioterrorism	=	5

Literature Search 48**Guideline 109 Bioterrorism Agent Literature Search**Databases Searched:

Pub Med (1966 to June Week 3 2004)

Search Criteria:

1	Bioterrorism and diagnosis	= 449
2	Bioterrorism and rapid testing	= 10
3	Anthrax and rapid testing	= 5
4	Plague and rapid testing	= 8
5	Botulinum toxin and rapid testing	= 8
6	Tularemia and rapid testing	= 1
7	Brucella and rapid testing	= 8

Literature Search 49Guideline 110 *Clostridium difficile* Literature SearchDatabases Searched:

Medline OVID(1996 – April week 3, 2004)

Search Criteria:

1	Clostridium difficile	=	951
2	POCT	=	779472
3	Diagnostic laboratory tests	=	287172
4	1 and 3	=	119
5	1 and 2	=	74

Literature Search 50**Guideline 111- 112 Infectious Mononucleosis Literature Search**Databases Searched:

Medline OVID (1996 – June week 3, 2004)

Search Criteria:

1	Infectious mononucleosis, EBV	=	3617
2	Rapid tests	=	148433
3	1 and 2	=	166
4	POCT	=	694621
5	1 and 2 and 4	=	17

(none of the tests are related to IM POCT)

Literature Search 51

Guideline 113 *C. trachomatis* and *N. gonorrhoeae* Literature Search

Databases Searched:

Pub Med 1979- 2004

Search Criteria:

1	Chlamydia trachomatis and medical errors	=	38
2	Chlamydia point of care tests	=	8
3	Chlamydia trachomatis point of care	=	14
4	Chlamydia trachomatis and office practice	=	16
5	Testpack chlamydia test	=	12
6	Biostar chlamydia test	=	3
7	Clearview chlamydia test	=	23
8	Surecell chlamydia	=	12
9	Leukocyte esterase and chlamydia trachomatis	=	44
10	Neisseria gonorrhoea point of care and medical errors	=	1
11	Neisseria gonorrhoea and office practice	=	3
12	Neisseria gonorrhoea point of care tests	=	3
13	Neisseria gonorrhoea diagnostic tests	=	26
14	Gram Stain gonorrhoea diagnosis	=	82
15	Point of care gonorrhoea diagnosis	=	8
16	Physician office gonorrhoea diagnosis	=	57
17	Gonorrhoea diagnosis	=	4060

Literature Search 52

Guideline 114 Group A Streptococci Literature Search

Databases Searched:

Pub Med 1983- 2004

Search Criteria:

1	Group A Streptococcus	= 1015
2	Streptococcus pyogenes	= 9423
3	point of care	= 2538
4	rapid antigen	= 181
5	1 and 3	= 1
6	1 and 4	= 10
7	2 and 3	= 3
8	2 and 4	= 62

Abstracts = 62

Systematic reviews = 32

31 citations in final recommendations

Literature Search 53

Guideline 115 Group B Streptococci Literature Search

Databases Searched:

PubMed 1986 to 2004

Search Criteria:

1	Group B Streptococcus AND Point of Case	=	0
2	Group B Streptococcus AND rapid test	=	22
3	Group B Streptococcus AND neonate sepsis	=	63
4	Group B Streptococcus AND maternal colonization	=	2
5	Group B Streptococcus	=	81
6	Streptococcus agalactiae AND rapid test	=	108
7	Group B Streptococcus AND rapid test	=	451

Abstracts = 62

Systematic review = 62

14 citations in final recommendations

Literature Search 54Guideline 116 *H. pylori* Literature SearchDatabases Searched:

PubMed 1990 to 2004

Search Criteria:

1	H. pylori	= 1476
2	urease	= 1866
3	physician office testing	= 108
4	point of care tests	= 1414

Abstracts = 15

Systematic review = 15

15 citations in final recommendations

Literature Search 55

Guideline 117 Diagnosis of Influenza Virus Infection Literature Search

Databases Searched:

Medline OVID 1999 – July week 1, 2005

Search Criteria:

1	Human influenza	=	2924
2	POCT	=	10230
3	Diagnostic Laboratory Tests	=	285806
4	1 & 2	=	8
5	1 & 3	=	185

5 citations in final recommendations

Literature Search 56**Guideline 118 Diagnosis of RSV Infection Literature Search**Databases Searched:

Medline OVID 1999 – July week 1, 2005

Search Criteria:

1	Human RSV	=	1386
2	POCT	=	10230
3	Diagnostic Laboratory Tests	=	285806
4	1 & 2	=	3
5	1 & 3	=	28

6 citations in final recommendations

Literature Search 57

Guidelines 119 - 128 HIV Literature Search

Databases Searched:

Medline OVID 1996 – April Week 2, 2005

Search Criteria:

1	HIV Seropositivity	=	5737
2	AIDS Serodiagnosis	=	1617
3	HIV Antibodies	=	2415
4	1 or 2 or 3	=	9813
5	rapid	=	109813
6	point of care	=	2559
7	5 or 6	=	112058
8	4 and 7	=	429
9	limit 8 to English language	=	409
10	from 9 keep 1-8, 13, 15-16, 18, 20-28, 30-32....	=	109
11	from 9 keep 203-205, 209	=	4
12	from 9 keep 212, 217, 221-222, 225, 232-235...	=	51
13	from 9 keep 407, 409	=	2
14	10 or 11 or 12 or 13	=	160

48 citations in final recommendations

Literature Search 58

Guideline 129 *Trichomonas vaginalis* Vaginitis Literature Search

Databases Searched:

Pubmed 1996 – 2004

Search Criteria:

1	<i>Trichomonas vaginalis</i>	=	862
2	<i>Trichomonas vaginalis</i> and POC	=	0
3	<i>Trichomonas vaginalis</i> and rapid testing	=	3
4	<i>Trichomonas</i> and POCT	=	0
5	<i>Trichomonas</i> and point of care testing	=	0
6	<i>Trichomonas</i> and lab detection	=	22
7	<i>Trichomonas</i> and Affirm	=	3
8	<i>Trichomonas</i> and preterm labor	=	29
9	<i>Trichomonas vaginalis</i> & preterm delivery	=	13
10	<i>Trichomonas vaginalis</i> & office testing	=	0
11	<i>Trichomonas vaginalis</i> & probes	=	9
12	<i>Trichomonas vaginalis</i> and point of care testing	=	1
13	<i>Trichomonas</i> and urine	=	69
14	<i>Trichomonas</i> and HIV	=	178

Abstracts = 33

Systematic Review = 33

31 citations in final recommendations

Literature Search 59

Guideline 130 *Trichomonas vaginalis* Vaginitis Literature Search

Databases Searched:

Pubmed 1996 – 2004

Search Criteria:

1 Yeast and wet preparations = 13

2 Yeast vaginitis and rapid diagnosis = 29

Abstracts = 13

Systematic Review = 13

4 citations in final recommendations

Literature Search 60

Guidelines 131 – 133 Bacterial Vaginitis Literature Search

Databases Searched:

Pubmed 1996 – 2004

Search Criteria:

1	Bacterial vaginosis and wet preparations	=	12
2	Bacterial vaginosis and rapid diagnosis	=	33
3	Bacterial vaginosis and preterm birth	=	168

12 citations in final recommendations

Literature Search 61**Guidelines 134 – 140 Occult Blood Literature Search**Databases Searched:

National Library of Medicine; Pub Med 1966 - May 28, 2004

Search Criteria:

1	occult blood	=	3676
2	occult blood and colorectal cancer	=	2049
3	fecal occult blood	=	1122
4	gastric occult blood	=	230

Abstracts = 171

Systematic Review = 102

75 citations in final recommendations

Literature Search 62

Guideline 141 Intraoperative PTH Primary Hyperparathyroidism Literature
Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

1 intraoperative (parathyroid hormone or PTH = 200

2 intraoperative (parathyroid hormone or PTH) AND
 primary hyperparathyroidism = 143

Abstracts = 123

Systematic Review = 110

68 citations in final recommendations

Literature Search 63

Guideline 141 Intraoperative PTH Primary Hyperparathyroidism Literature

Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND

morbidity OR complications = 200

Abstracts = 34

Systematic Review = 32

5 citations in final recommendations

Literature Search 64

Guideline 141 Intraoperative PTH Primary Hyperparathyroidism Literature Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

- | | | | |
|---|---|---|----|
| 1 | intraoperative (parathyroid hormone or PTH) AND | | |
| | anesthesia | = | 33 |
| 2 | intraoperative (parathyroid hormone or PTH) AND | | |
| | neck exploration | = | 79 |

Abstracts = 40

Systematic Review = 32

3 citations in final recommendations

Literature Search 65

Guideline 141 Intraoperative PTH Primary Hyperparathyroidism Literature

Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND

frozen section = 20

Abstracts = 9

Systematic Review = 8

2 citations in final recommendations

Literature Search 67

Guideline 141 Intraoperative PTH Primary Hyperparathyroidism Literature

Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

- | | | | |
|---|---|---|----|
| 1 | intraoperative (parathyroid hormone or PTH) AND | | |
| | incision | = | 32 |
| 2 | intraoperative (parathyroid hormone or PTH) AND | | |
| | cosmetic | = | 10 |
| 3 | intraoperative (parathyroid hormone or PTH) AND | | |
| | patient satisfaction OR pain | = | 10 |

Abstracts = 14

Systematic Review = 12

3 citations in final recommendations

Literature Search 68

Guideline 142 Intraoperative PTH Other Parathyroidism Diseases Literature
Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

- | | | | |
|---|--|---|----|
| 1 | intraoperative (parathyroid hormone or PTH) AND
secondary hyperparathyroidism | = | 19 |
| 2 | intraoperative (parathyroid hormone or PTH) AND
tertiary hyperparathyroidism | = | 16 |

Abstracts = 23

Systematic Review = 22

13 citations in final recommendations

Literature Search 69

Guideline 143 Intraoperative PTH Other Parathyroidism Diseases Literature

Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND

reoperation OR reoperative OR repeat surgery = 36

Abstracts = 21

Systematic Review = 21

8 citations in final recommendations

Literature Search 70

Guideline 144 Intraoperative PTH Other Parathyroidism Diseases Literature

Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND

multiple endocrine neoplasia = 15

Abstracts = 11

Systematic Review = 9

6 citations in final recommendations

Literature Search 71

Guideline 145 Intraoperative PTH Other Parathyroidism Diseases Literature

Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND

parathyroid carcinoma = 20

Abstracts = 13

Systematic Review = 8

8 citations in final recommendations

Literature Search 72

Guidelines 146 – 147 Intraoperative PTH Localization Literature Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND
 angiography OR intraoperative localization) = 64

Abstracts = 10

Systematic Review = 8

6 citations in final recommendations

Literature Search 73

Guideline 148 Intraoperative PTH Secondary Questions Literature Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND

assay comparison OR instrumentation = 8

Abstracts = 12

Systematic Review = 10

6 citations in final recommendations

Literature Search 75

Guideline 150 Intraoperative PTH Secondary Questions Literature Search

Databases Searched:

National Library of Medicine; Pub Med 1966 – November Week 2, 2003

Search Criteria:

intraoperative (parathyroid hormone or PTH) AND
specimen transport OR pneumatic tube OR turnaround time
OR location OR laboratory OR testing site = 30

Abstracts = 7

Systematic Review = 5

3 citations in final recommendations

Literature Search 76

Guideline 151 pH Testing Literature Search			
<u>Databases Searched:</u>			
Medline OVID 1966 – April Week 3, 2003			
AHRQ National Guideline Clearinghouse			
<u>Search Criteria:</u>			
1	pH AND chemical burns or Burns, Chemical	=	54
2	pH AND eye or EYE BURNS or EYE AND lavage or wash or tears	=	56
3	pH AND chemical burns or Burns, Chemical AND eye or EYE BURNS or EYE AND ocular	=	11
4	pH AND chemical burns or Burns, Chemical/ AND ocular	=	12
5	pH AND chemical burns or Burns, Chemical AND eye or EYE BURNS or EYE	=	23
6	pH AND emergency or EMERGENCIES AND Reagent Strips or pH paper or Gastric Acidity determination	=	21
7	pH AND eye or EYE BURNS or EYE AND emergency or EMERGENCIES	=	4
	Abstracts	=	129
	Systematic Review	=	19
21 citations in final recommendations			

Literature Search 77

Guideline 152 pH Testing Literature Search			
<u>Databases Searched:</u>			
Medline OVID 1966 – April Week 3, 2003			
AHRQ National Guideline Clearinghouse			
<u>Search Criteria:</u>			
1	pH AND Gastric Juice or gastric fluid AND achlorhydria or ACHLORHYDRIA	=	20
2	pH AND Gastric Juice/ or gastric fluid AND gastroesophageal Reflux or gastric reflux	=	70
3	pH AND Gastric Juice or gastric fluid AND Gastric Acidity Determination or continuous pH monitoring AND achlorhydria or ACHLORHYDRIA	=	7
4	pH AND Gastric Juice or gastric fluid AND Gastric Acidity Determination or continuous pH monitoring AND gastroesophageal Reflux or gastric reflux	=	15
5	pH AND Gastric Juice or gastric fluid AND achlorhydria or ACHLORHYDRIA AND Gastric Acidity Determination or ambulatory pH monitoring=		7
6	pH and Gastric Juice or gastric fluid AND gastroesophageal Reflux or gastric reflux AND Gastric Acidity Determination or ambulatory pH monitoring=		15
7	Reagent Strips or pH paper AND GASTRIC JUICE or gastric or GASTRIC ACID	=	31
	Abstracts	=	136
	Systematic Review	=	51
27 citations in final recommendations			

Literature Search 78

Guideline 153 pH Testing Literature Search

Databases Searched:

Medline OVID 1966 – April Week 3, 2003

AHRQ National Guideline Clearinghouse

Search Criteria:

1	NG tube placement	=	6
2	pH AND nasogastric tube	=	134
3	Gastrocult	=	6
4	pH paper	=	45
5	Nitrazine	=	37
6	Gastric Occult Blood	=	2
7	pH AND Gastrointestinal Hemorrhage/OR Occult Blood/ AND Enteral Nutrition OR Intubation, Gastrointestinal OR Nasogastric tube	=	10
8	pH paper AND nasogastric tube	=	3
9	pH paper AND Enteral Nutrition OR Intubation, Gastrointestinal/ OR Nasogastric tube	=	5
10	pH AND nasogastric tube AND Gastric Acid or Gastric Juice or gastric fluid	=	47
	Abstracts	=	233
	Systematic Review	=	19

14 citations in final recommendations

Literature Search 79

Guideline 154 pH Testing Literature Search

Databases Searched:

Medline OVID 1966 – April Week 3, 2003

AHRQ National Guideline Clearinghouse

Search Criteria:

1	Nitrazine	=	37
2	pH paper	=	45
3	pH Nitrazine	=	1
4	pH AND Nitrazine	=	12

Abstracts = 81

Systematic Review = 14

2 citations in final recommendations

Literature Search 80

Guidelines 155 – 156 Creatinine and BUN Testing Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	point-of-care testing	=	465
2	point of care testing	=	1343
3	ancillary testing	=	318
4	satellite testing	=	213
5	bedside testing	=	1119
6	near-patient testing	=	107
7	near patient testing	=	542
8	remote testing	=	545
9	Physician's Office Laboratories	=	91
10	1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9	=	3722
11	BUN	=	5196
12	blood urea nitrogen	=	5820
13	urea	=	57069
14	creatinine	=	38113
15	10 AND (11 OR 12 OR 13 OR 14)	=	77
	Abstracts	=	77
	Systematic review	=	10

3 citations in final recommendations

Literature Search 81

Guideline 157 Urine pH Dipstick Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	pH	=	3675477
3	dipstick	=	783
4	1 AND 2 AND 3	=	310

Abstracts = 310

Systematic review = 3

0 citations in final recommendations

Literature Search 82

Guideline 158 Urine pH Dipstick Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	pH	=	3675477
3	dipstick	=	783
4	1 AND 2 AND 3	=	310

Abstracts = 310

Systematic review = 6

0 citations in final recommendations

Literature Search 83**Guideline 159 Urine Specific Gravity Dipstick Literature Search**Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	dipstick	=	783
3	specific gravity	=	1663
4	1 AND 2 AND 3	=	21

Abstracts = 21

Systematic review = 6

0 citations in final recommendations

Literature Search 84

Guideline 160 Urine Specific Gravity Dipstick Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	dipstick	=	783
3	specific gravity	=	1663
4	1 AND 2 AND 3	=	2

Abstracts = 2

Systematic review = 2

0 citations in final recommendations

Literature Search 85

Guideline 161 Osmolality Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	point-of-care testing	=	465
2	point of care testing	=	1343
3	ancillary testing	=	318
4	satellite testing	=	213
5	bedside testing	=	1119
6	near-patient testing	=	107
7	near patient testing	=	542
8	remote testing	=	545
9	Physician's Office Laboratories	=	91
10	1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9	=	3722
11	plasma	=	359288
12	serum	=	382119
13	whole blood	=	46595
14	urine	=	113844
15	11 OR 12 OR 13 OR 14	=	796369
16	osmolality	=	30001
17	10 AND 15 AND 16	=	6
Abstracts		=	6
Systematic review		=	3

0 citations in final recommendations

Literature Search 86**Guideline 162 Proteinuria Literature Search**Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	proteinuria	=	16953
2	urine protein	=	32098
3	dipstick	=	783
4	3 AND (1 OR 2)	=	260

Abstracts = 260

Systematic review = 32

6 citations in final recommendations

Literature Search 87

Guideline 163 Hematuria Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	hematuria	=	60279
3	blood	=	1319048
4	dipstick	=	783
5	1 AND 4 AND (2 OR 3)	=	215

Abstracts = 215

Systematic review = 16

0 citations in final recommendations

Literature Search 88

Guideline 164 Electrolyte Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	point-of-care testing	=	465
2	point of care testing	=	1343
3	ancillary testing	=	318
4	satellite testing	=	213
5	bedside testing	=	1119
6	near-patient testing	=	107
7	near patient testing	=	542
8	remote testing	=	545
9	Physician's Office Laboratories	=	91
10	1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9	=	3722
11	plasma	=	359288
12	serum	=	382119
13	whole blood	=	46595
14	urine	=	113844
15	11 OR 12 OR 13 OR 14	=	796369
16	electrolytes	=	164523
17	10 AND 15 AND 16	=	20

Abstracts = 20

Systematic review = 7

0 citations in final recommendations

Literature Search 89**Guideline 165 Proteinuria for Pre-Eclampsia Literature Search**Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	proteinuria	=	16953
2	urine protein	=	32098
3	dipstick	=	783
4	3 AND (1 OR 2)	=	260

Abstracts = 260

Systematic review = 17

2 citations in final recommendations

Literature Search 90**Guideline 166 Urine pH Dipstick for Renal Stone Recurrence Literature Search**Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	pH	=	3675477
3	dipstick	=	783
4	1 AND 2 AND 3	=	310

Abstracts = 310

Systematic review = 4

0 citations in final recommendations

Literature Search 91**Guideline 167 Hematuria for Intra-abdominal Trauma Literature Search**Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	hematuria	=	60279
3	blood	=	1319048
4	dipstick	=	783
5	1 AND 4 AND (2 OR 3)	=	215

Abstracts = 215

Systematic review = 17

0 citations in final recommendations

Literature Search 92

Guideline 168 Lactate in Hemodialysis Patients Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	point-of-care testing	=	465
2	point of care testing	=	1343
3	ancillary testing	=	318
4	satellite testing	=	213
5	bedside testing	=	1119
6	near-patient testing	=	107
7	near patient testing	=	542
8	remote testing	=	545
9	Physician's Office Laboratories	=	91
10	1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9	=	3722
11	plasma	=	359288
12	serum	=	382119
13	whole blood	=	46595
14	11 OR 12 OR 13	=	727605
15	lactate	=	52114
16	10 AND 14 AND 15	=	9

Abstracts = 9

Systematic review = 3

0 citations in final recommendations

Literature Search 93**Guideline 169 Myoglobin for Muscle Injury Renal Complications Literature****Search**Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	dipsticks	=	783
3	myoglobin	=	5515
4	1 AND 2 AND 3	=	7

Abstracts = 7

Systematic review = 4

0 citations in final recommendations

Literature Search 94

Guideline 170 Microalbumin for Non-diabetic Nephropathy Literature Search

Databases Searched:

Medline OVID 1966 – October Week 4, 2003

Search Criteria:

1	urine	=	113844
2	dipstick	=	783
3	microalbumin	=	160
4	microalbuminuria	=	2436
5	1 AND 2 AND (3 or 4)	=	38

Abstracts = 38

Systematic review = 11

0 citations in final recommendations

Literature Search 95

Guideline 171 hCG Literature Search			
<u>Databases Searched:</u>			
Medline OVID 1975 – September Week 2, 2003			
<u>Search Criteria:</u>			
1	hCG AND urine AND emergency	=	17
2	hCG AND pregnancy AND home AND limited to human and English language	=	2
	Abstracts	=	19
	Systematic review	=	5
0 citations in final recommendations			

Literature Search 96

Guideline 172 hCG Literature Search

Databases Searched:

Medline OVID 1975 – September Week 2, 2003

Search Criteria:

1	hCG AND pregnancy AND home AND limited to human and English language	= 23
2	urine AND pregnancy AND bedside AND limited to human and English language	= 7
3	urine AND hCG AND pregnancy AND test AND rapid AND limited to human and English language	= 12
4	home pregnancy AND limited to human AND English language	= 39
Abstracts		= 78
Systematic review		= 12

12 citations in final recommendations

Literature Search 97

Guideline 173 hCG Literature Search			
<u>Databases Searched:</u>			
Medline OVID 1975 – September Week 2, 2003			
<u>Search Criteria:</u>			
1	hCG AND pregnancy AND home AND limited to human and English language	=	23
2	urine AND pregnancy AND bedside AND limited to human and English language	=	7
3	urine AND hCG AND pregnancy AND test AND rapid AND limited to human and English language	=	12
4	home pregnancy AND limited to human AND English language	=	39
	Abstracts	=	78
	Systematic review	=	12
12 citations in final recommendations			

Literature Search 98

Guideline 174 hCG Literature Search

Databases Searched:

Medline OVID 1975 – September Week 2, 2003

Search Criteria:

1	hCG AND pregnancy AND home AND limited to human and English language	= 23
2	urine AND pregnancy AND bedside AND limited to human and English language	= 7
3	urine AND hCG AND pregnancy AND test AND rapid AND limited to human and English language	= 12
4	home pregnancy AND limited to human AND English language	= 39
Abstracts		= 78
Systematic review		= 12

0 citations in final recommendations

Literature Search 99

Guideline 175 hCG Literature Search			
<u>Databases Searched:</u>			
Medline OVID 1975 – September Week 2, 2003			
<u>Search Criteria:</u>			
1	hCG AND pregnancy AND home AND limited to human and English language	=	23
2	urine AND pregnancy AND bedside AND limited to human and English language	=	7
3	urine AND hCG AND pregnancy AND test AND rapid AND limited to human and English language	=	12
4	home pregnancy AND limited to human AND English language	=	39
	Abstracts	=	78
	Systematic review	=	12
3 citations in final recommendations			

Literature Search 100

Guideline 176 Urine LH Ovulation Testing Literature Search

Databases Searched:

Medline OVID 1975 – October Week 3, 2003

Search Criteria:

- | | | |
|---|--|------|
| 1 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertility limited to human and English | = 55 |
| 2 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fecundity limited to human and English | = 7 |
| 3 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertilization limited to human and English | = 12 |
| 4 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND ambulatory care OR clinic visits limited to human and English | = 2 |

Abstracts = 72

Systematic review = 13

13 citations in final recommendations

Literature Search 101

Guideline 177 Urine LH Ovulation Testing Literature Search

Databases Searched:

Medline OVID 1975 – October Week 3, 2003

Search Criteria:

- | | | |
|---|--|------|
| 1 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertility limited to human and English | = 55 |
| 2 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fecundity limited to human and English | = 7 |
| 3 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertilization limited to human and English | = 12 |
| 4 | Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND ambulatory care OR clinic visits limited to human and English | = 2 |

Abstracts = 72

Systematic review = 13

11 citations in final recommendations

Literature Search 102

Guideline 178 Urine LH Ovulation Testing Literature Search		
<u>Databases Searched:</u>		
Medline OVID 1975 – October Week 3, 2003		
<u>Search Criteria:</u>		
1	Ovulation detection OR urine LH test OR home ovulation OR [urine AND luteinizing hormone] AND pregnancy outcomes limited to human and English	= 8
2	Ovulation detection OR urine LH test OR home ovulation OR [urine AND luteinizing hormone] AND pregnancy limited to human and English	= 151
3	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertility limited to human and English	= 55
4	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fecundity limited to human and English	= 7
5	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertilization limited to human and English	= 12
6	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND ambulatory care OR clinic visits limited to human and English	= 2
	Abstracts	= 223
	Systematic review	= 0
0 citations in final recommendations		

Literature Search 103

Guideline 179 Urine LH Ovulation Testing Literature Search	
<u>Databases Searched:</u>	
Medline OVID 1975 – October Week 3, 2003	
<u>Search Criteria:</u>	
1	Ovulation detection OR urine LH test OR home ovulation OR [urine AND luteinizing hormone] AND pregnancy outcomes limited to human and English = 8
2	Ovulation detection OR urine LH test OR home ovulation OR [urine AND luteinizing hormone] AND pregnancy limited to human and English = 151
3	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertility limited to human and English = 55
4	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fecundity limited to human and English = 7
5	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertilization limited to human and English = 12
6	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND ambulatory care OR clinic visits limited to human and English = 2
	Abstracts = 223
	Systematic review = 8
	8 citations in final recommendations

Literature Search 104

Guideline 180 Urine LH Ovulation Testing Literature Search		
<u>Databases Searched:</u>		
Medline OVID 1975 – October Week 3, 2003		
<u>Search Criteria:</u>		
1	Ovulation detection OR urine LH test OR home ovulation OR [urine AND luteinizing hormone] AND pregnancy limited to human and English	= 151
2	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertility limited to human and English	= 55
3	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fecundity limited to human and English	= 7
4	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertilization limited to human and English	= 12
5	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND ambulatory care OR clinic visits limited to human and English	= 2
	Abstracts	= 216
	Systematic review	= 0
1 citations in final recommendations		

Literature Search 105

Guideline 181 Urine LH Ovulation Testing Literature Search		
<u>Databases Searched:</u>		
Medline OVID 1975 – October Week 3, 2003		
<u>Search Criteria:</u>		
1	Ovulation detection OR urine LH test OR home ovulation OR [urine AND luteinizing hormone] AND pregnancy limited to human and English	= 151
2	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertility limited to human and English	= 55
3	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fecundity limited to human and English	= 7
4	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND fertilization limited to human and English	= 12
5	Ovulation detection OR urine LH test OR home ovulation test OR [urine AND luteinizing hormone] AND ambulatory care OR clinic visits limited to human and English	= 2
	Abstracts	= 216
	Systematic review	= 1
0 citations in final recommendations		

Literature Search 106

Guideline 182 Urine LH Ovulation Testing Literature Search			
<u>Databases Searched:</u>			
Medline OVID 1975 – October Week 3, 2003			
<u>Search Criteria:</u>			
1	Fertility monitor limited to human and English	=	13
2	Cue AND ovulation limited to human and English	=	11
3	New Method AND ovulation limited to human and English	=	14
4	ferning AND ovulation detection limited to human and English	=	5
	Abstracts	=	43
	Systematic review	=	10
8 citations in final recommendations			

Literature Search 107

Guideline 183 pH/Nitrazine Testing for PROM Literature Search

Databases Searched:

Medline OVID 1970 – September Week 2, 2003

Search Criteria:

fetal membranes, premature rupture OR premature rupture of
 membranes OR ruptured membranes OR PROM AND pH OR
 hydrogen-ion concentration limited to English language = 77

Abstracts = 65

Systematic review = 1

1 citations in final recommendations

Literature Search 108

Guideline 184 pH/Nitrazine Testing for PROM Literature Search

Databases Searched:

Medline OVID 1970 – September Week 2, 2003

Search Criteria:

- 1 fetal membranes, premature rupture OR premature rupture of membranes OR ruptured membranes OR PROM AND pH OR hydrogen-ion concentration limited to English language = 77
- 2 fetal membranes, premature rupture OR premature rupture of membranes OR ruptured membranes OR PROM AND nitrazine limited to English language = 24

Abstracts = 87

Systematic review = 12

10 citations in final recommendations

Literature Search 109

Guideline 185 pH/Nitrazine Testing for PROM Literature Search

Databases Searched:

Medline OVID 1970 – September Week 2, 2003

Search Criteria:

- | | | | |
|---|---|---|----|
| 1 | fetal membranes, premature rupture OR premature rupture of membranes OR ruptured membranes OR PROM AND nitrazine AND pregnancy outcome limited to English language | = | 1 |
| 2 | fetal membranes, premature rupture OR premature rupture of membranes OR ruptured membranes OR PROM AND pH Or hydrogen-ion concentration AND pregnancy outcome limited to English language | = | 14 |

Abstracts = 12

Systematic review = 0

0 citations in final recommendations

Literature Search 110

Guideline 186 Fern Testing for PROM Literature Search

Databases Searched:

Medline OVID 1970 – September Week 2, 2003

Search Criteria:

- 1 fetal membranes, premature rupture OR premature rupture of membranes OR ruptured membranes OR PROM AND pH OR hydrogen-ion concentration limited to English language = 77
- 2 fetal membranes, premature rupture OR premature rupture of membranes OR ruptured membranes OR PROM AND nitrazine limited to English language = 24

Abstracts = 87

Systematic review = 12

5 citations in final recommendations

Literature Search 111

Guideline 187 fFN for Preterm Labor Literature Search

Databases Searched:

Medline OVID 1998 – October Week 1, 2003

Search Criteria:

1 fetal fibronectin = 169

2 limited to Human and English language = 105

Abstracts = 102

Systematic review = 24

0 citations in final recommendations

Literature Search 112

Guideline 188 fFN for Preterm Labor Literature Search

Databases Searched:

Medline OVID 1998 – October Week 1, 2003

Search Criteria:

1 fetal fibronectin = 169

2 limited to Human and English language = 105

Abstracts = 102

Systematic review = 24

0 citations in final recommendations

Literature Search 113

Guideline 189 fFN for Preterm Labor Literature Search

Databases Searched:

Medline OVID 1998 – October Week 1, 2003

Search Criteria:

1 fetal fibronectin = 169

2 limited to Human and English language = 105

Abstracts = 102

Systematic review = 24

0 citations in final recommendations

Literature Search 114

Guideline 190 fFN for Preterm Labor Literature Search

Databases Searched:

Medline OVID 1998 – October Week 1, 2003

Search Criteria:

1 fetal fibronectin = 169

2 limited to Human and English language = 105

Abstracts = 102

Systematic review = 24

4 citations in final recommendations