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The screenshot shows the Nature journal website home page. At the top, there is a navigation bar with links for 'nature.com', 'Publications A-Z index', and 'Browse by subject'. Below this is a large advertisement for Thermo Scientific with the text 'Open up to new possibilities... Learn more here.' and 'Humanly. Possible.' The main header features the 'nature' logo and the tagline 'International weekly journal of science'. A search bar is located below the logo. On the left side, there is a 'Journal content' menu with several items: 'Journal home', 'Advance online publication', 'Current issue', 'Nature News', 'Archive', 'Supplements', 'Web focuses', 'Podcasts', 'Videos', and 'News Specials'. The 'Archive' item is circled in green. Below the menu is a 'Journal information' section with items: 'About the journal', 'For authors', 'Online submission', 'Nature Awards', and 'Nature history'. The 'About the journal' item is circled in blue. The main content area is titled 'Latest Research' and features several articles, including 'Direct conversion of fibroblasts to functional neurons by defined factors', 'The cells and peripheral representation of sodium taste in mice', and 'Fossilized melanosomes and the colour of Cretaceous dinosaurs and birds'. A central image shows a pair of feet with the text 'TREAD SOFTLY' and 'Volume 463 (7280)'. On the right side, there are several utility boxes: 'My account' with links for 'Submit manuscript', 'Register', and 'Subscribe'; a 'Login' button; a 'get the latest news at naturenews' box; a 'subscribe to nature' box; a 'Sign up for e-alerts' box; a 'Recommend to your library' box; an 'RSS newsfeeds' box; a 'Nature in the news (external link)' box; a 'Nature JOBS of the week' box; and a 'Nature Analytical Chemist' box listing a job opening in Scotland. The 'Submit manuscript' and 'Submit correspondence' boxes are also visible at the bottom of the main content area.

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Articles

Systemic signals regulate ageing and rejuvenation of blood stem cell niches p495
Age-associated changes in stem cell supportive niche cells are shown to deregulate normal haematopoiesis by causing haematopoietic stem cell dysfunction. Age-dependent defects in niche cells are systemically regulated and can be reversed by exposure to a young circulation or by neutralization of the conserved longevity regulator, insulin-like growth factor-1, in the marrow microenvironment.
Shane R. Mayack, Jennifer L. Shadrach, Francis S. Kim & Amy J. Wagers
doi:10.1038/nature08749
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Structure of a bacterial homologue of vitamin K epoxide reductase p507
The γ -carboxylation of many blood coagulation factors relies on the generation of vitamin K hydroquinone by the enzyme vitamin K epoxide reductase (VKOR), of which the anticoagulant warfarin is an inhibitor. Here, the X-ray crystal structure of a bacterial homologue of VKOR is presented; the results have implications for the mechanism of action of mammalian VKOR and explain how mutations can cause warfarin resistance.
Weikai Li, Sol Schulman, Rachel J. Dutton, Dana Boyd, Jon Beckwith & Tom A. Rapoport

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Nature 463, 495-500 (28 January 2010) | doi:10.1038/nature08749; Received 26 August 2009; Accepted 6 December 2009

Systemic signals regulate ageing and rejuvenation of blood stem cell niches

Shane R. Mayack¹, Jennifer L. Shadrach¹, Francis S. Kim¹ & Amy J. Wagers¹

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Ageing in multicellular organisms typically involves a progressive decline in cell replacement and repair processes, resulting in several physiological deficiencies, including inefficient muscle repair, reduced bone mass, and dysregulation of blood formation (haematopoiesis). Although defects in tissue-resident stem cells clearly contribute to these phenotypes, it is unclear to what extent they reflect stem cell intrinsic alterations or age-related changes in the stem cell supportive microenvironment, or niche. Here, using complementary *in vivo* and *in vitro* heterochronic models, we show that age-associated changes in stem cell supportive niche cells deregulate normal haematopoiesis by causing haematopoietic stem cell dysfunction. Furthermore, we find that age-dependent defects in niche cells are systemically regulated and can be reversed by exposure to a young circulation or by neutralization of the conserved longevity regulator, insulin-like growth factor-1, in the marrow microenvironment. Together, these results show a new and critical role for local and systemic factors in signalling age-related haematopoietic decline, and highlight a new model in which blood-borne factors in aged animals act through local niche cells to induce age-dependent disruption of stem cell function.

ABSTRACT

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for local and systemic factors in signalling age-related haematopoietic decline, and highlight a new model in which blood-borne factors in aged animals act through local niche cells to induce age-dependent disruption of stem cell function.

Age-associated pathologies represent a significant and growing global health care concern, particularly as demographic trends predict a doubling in the number of individuals over 65 years of age in the next 20 years¹. In the haematopoietic system, ageing is associated with deficient immune function and increased incidence of malignancy, particularly of the myeloid subtype². Age-associated blood diseases are thought to arise in part owing to discrete changes in aged haematopoietic stem and progenitor cells (HSPCs), including a considerable expansion of HSPCs in aged bone marrow, coupled paradoxically with a reduced capacity for blood reconstitution and skewed differentiation potential after transplant^{2, 3, 4, 5}. Previous work clearly demonstrates cell-intrinsic alterations (for example, DNA damage, oxidative stress, and senescence-associated protein induction) that are associated with and probably contribute to HSPC ageing^{2, 3, 6, 7, 8}; however, other studies also indicate a role for non-autonomous signals in this process. In particular, the ability of anatomically defined stromal elements, or 'niches', within the bone marrow to regulate HSPC function^{9, 10, 11} suggests that changes in extrinsic inputs may also contribute markedly to age-dependent haematopoietic dysfunction. Moreover, given the simultaneous effect of ageing on several organ systems, it is possible that global alterations in systemic tissue regulators further modulate HSPC function in aged animals and perhaps coordinate ageing across tissues^{12, 13}.

Here we investigate the possible role of local microenvironmental and systemic factors in HSPC ageing, using direct isolation of haematopoietic stem cell (HSC)-regulatory niche cells and an *in vivo* parabiotic mouse system to assess age-related HSPC phenotypes that may be modulated extrinsically. These studies clearly demonstrate that HSPC-regulatory niche cells undergo age-induced alterations in their ability to support HSPC function, and that these age-related changes in niche activity can be reversed by systemic factors. Systemic modulation of stem cell-niche cell interactions may thus provide promising, new avenues for restoring aged tissue function.

Systemic signals can rejuvenate aged HSCs

To assay the effects of age-regulated systemic factors on HSPC number and function, we generated heterochronic parabiotic pairs, in which young mice (2 months) were surgically joined to aged partners (>21 months), and compared these to isochronic pairs (young-young or aged-aged) joined at identical ages. Parabiosis generates animals that share a common blood circulation, and thereby tests specifically whether physiological levels of circulating cells or factors can significantly alter tissue function^{14, 15, 16, 17}. Parabiotic pairs were maintained 4–5 weeks before analysis, and congenic markers were used to distinguish haematopoietic cells from aged (CD45²⁺) versus young (CD45¹⁺)

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Local niche cells regulate HSC ageing

Mechanisms of HSPC and niche-cell ageing

Local IGF-1 regulates niche cell function

Conclusions

Methods Summary

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Supplementary info

Online methods

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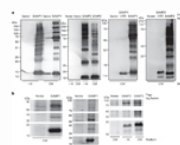
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nature: figures and tables

Consistent with their role as small archaeal modifier proteins, SAMP1 and SAMP2 were the only proteins identified in SDS-PAGE gel slices that spanned a wide-range of molecular masses (5–125 kDa, [Supplementary Table 3](#)).

Figure 4: SAMP-conjugates are isolated by immunoprecipitation.

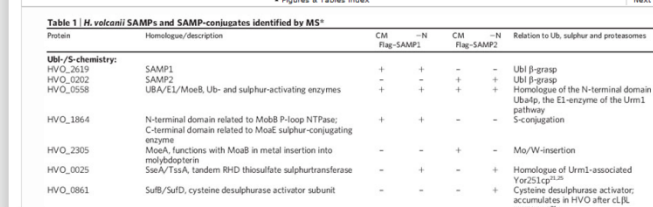


SAMP1 \pm Δ GG and SAMP2 \pm Δ GG were expressed as N-terminal Flag-tagged fusions in *H. volcanii* grown in complex medium (CM) and nitrogen-limiting conditions (-N). Proteins were immunoprecipitated with anti-Flag, boiled and separated by either: **a**, reducing 12% SDS-PAGE and analysis by anti-Flag immunoblot or **b**, non-reducing 12% SDS-PAGE and staining for total protein by SYPRO Ruby. Molecular mass standards and range of gel slices excised for MS-analysis are indicated on left. *H. volcanii* with vector alone served as a negative control in all experiments including MS-analysis of gel slices.

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Table 1: *H. volcanii* SAM



Many of the SAMPylated p...
 Ubl-conjugation and/or sul...
 of Uba4p, Yor251c and Nc...
 involved in thiolation of tR...
 MoeA, MoeA and SufB/D, a...
 with sulphur metabolism. I...
 domains of Uba4p are enc...
 archaea. HVO_0558, ident...
 terminal domain and Cys22...
 activity^{21, 23, 24} (Fig. 5), v...
 related to the Uba4p C ter...
 Cys397 needed for persulph...
 Whether HVO_0558 functions as an E1 and activates the SAMPs for protein

Table 1. *H. volcanii* SAMs and SAMP-conjugates identified by MS².

Protein	Homologue/description	CM Flag-SAMP1	-N Flag-SAMP1	CM Flag-SAMP2	-N Flag-SAMP2	Relation to Ub, sulphur and proteasomes
Ubl/S-chemistry:						
HVO_2619	SAMP1	+	+	-	-	Ubl β -grasp
HVO_0202	SAMP2	-	-	+	+	Ubl β -grasp
HVO_0558	UBA/E1/MoeB, Ub- and sulphur-activating enzymes	+	+	+	+	Homologue of the N-terminal domain of Uba4p, the E1-enzyme of the Urm1 pathway
HVO_1864	N-terminal domain related to MobB P-loop NTPase; C-terminal domain related to MoeB sulphur-conjugating enzyme	+	+	-	-	S-conjugation
HVO_2305	MoeA, functions with MoeB in metal insertion into multidoplers	-	-	+	-	Mo/W-insertion
HVO_0025	SaeA/TssA, tandem RHD thiosulfate sulphurtransferase	-	+	-	+	Homologue of Urm1-associated Yor251cp ^{21,23}
HVO_0861	SufB/SufD, cysteine desulphurase activator subunit	-	-	-	+	Cysteine desulphurase activator; accumulates in HVO after cLJK treatment ²⁴

nature: references

Systemic signals regulate ageing and rejuvenation of blood stem cell niches : Article : Nature - Windows Internet Explorer

http://www.nature.com/nature/journal/v463/n7280/full/nature08749.html

Systemic signals regulate ageing and rejuvenati...

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nature

ARTICLES

Systemic signals regulate ageing and rejuvenation of blood stem cell niches

Shane R. Mayack¹, Jennifer L. Shadrach¹, Francis S. Kim¹ & Amy J. Wagers¹

Ageing in multicellular organisms typically involves a progressive decline in cell replacement and repair processes, resulting in several physiological deficiencies, including inefficient muscle repair, reduced bone mass, and dysregulation of blood formation (haematopoiesis). Although defects in tissue-resident stem cells clearly contribute to these phenotypes, it is unclear to what extent they reflect stem cell intrinsic alterations or age-related changes in the stem cell supportive microenvironment, or niche. Here, using complementary *in vivo* and *in vitro* heterochronic models, we show that age-associated changes in stem cell supportive niche cells deregulate normal haematopoiesis by causing haematopoietic stem cell dysfunction. Furthermore, we find that age-dependent defects in niche cells are systemically regulated and can be reversed by exposure to a young circulation or by neutralization of the conserved longevity regulator, insulin-like growth factor-1, in the marrow microenvironment. Together, these results show a new and critical role for local and systemic factors in signalling age-related haematopoietic decline, and highlight a new model in which blood-borne factors in aged animals act through local niche cells to induce age-dependent disruption of stem cell function.

Age-associated pathologies represent a significant and growing global health care concern, particularly as demographic trends predict a doubling of the world population aged 65 years and older by 2050. In mice, ageing is associated with a decline in stem cell function, and young mice (2 months) were surgically joined to aged partners (>21 months), and compared these to isochronic pairs (young-

210 x 276 mm

nature: Advance online publication (AOP)

The image shows a screenshot of a web browser displaying a Nature journal article. The browser's address bar shows the URL: <http://www.nature.com/nature/journal/vaop/ncurrent/index.html>. The page content includes a sidebar with navigation links, a main article area, and a secondary article preview.

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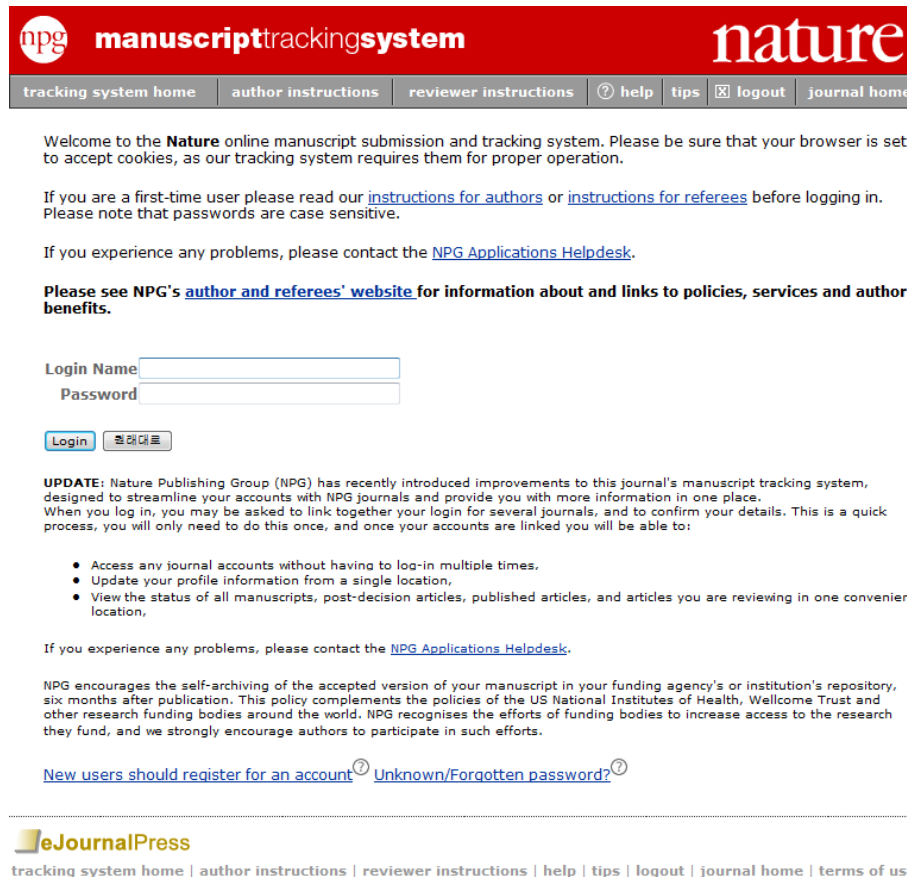
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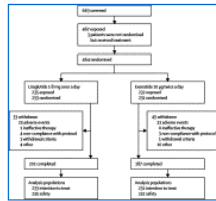
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group, 1 in exenatide group), and they were included in the safety but not intention-to-treat populations. 33 of 235 participants withdrew from liraglutide and 45 of 232 from exenatide treatment; withdrawal rates were not significantly different between groups. Adverse events were the most common reason for withdrawal in both groups. The characteristics of the study population were typical for participants with type 2 diabetes, and baseline characteristics were well matched between treatment groups (table 1).



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Figure 1. Trial profile

Of the adverse events leading to withdrawal, nausea was the most common (14 patients in the liraglutide group and 16 in the exenatide group). Participants were exposed to treatment if they had received at least one dose of study medication.

Table 1.

Baseline demographic and disease characteristics

	Liraglutide 1.8 mg once a day (n=233)	Exenatide 10 µg twice a day (n=231)
Men	114 (49%)	127 (55%)
Age (years)	56.3 (9.8)	57.1 (10.8)
Race		
White	216 (93%)	210 (91%)
Asian/Pacific Islander	1 (<1%)	5 (2%)
Black*	13 (6%)	12 (5%)
Other	3 (1%)	4 (2%)
Hispanic or Latin American ethnic origin	32 (14%)	25 (11%)
Weight (kg)	93.1 (20.1)	93.0 (19.5)
Body-mass index (kg/m ²)	32.9 (5.5)	32.9 (5.7)
Duration of diabetes (years)	8.5 (6.2)	7.9 (5.9)

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Liraglutide once a day versus exenatide twice a day for type 2 diabetes: a 26-week randomised, parallel-group, multinational, open-label trial (LEAD-6)

Prof John B Buse MD^a, Julio Rosenstock MD^b, Prof Giorgio Sesti MD^c, Prof Wolfgang E Schmidt MD^d, Prof Eduard Montanya MD^e, Jason H Brett MD^f, Marcin Zychma MD^g, Lawrence Blonde MD^h and for the LEAD-6 Study Group

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Figure 1. Trial profile

Of the adverse events leading to withdrawal, nausea was the most common (14 patients in the liraglutide group and 16 in the exenatide group). Participants were exposed to treatment if they had received at least one dose of study medication.

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Liraglutide once a day versus exenatide twice a day for type 2 diabetes: a 26-week randomised, parallel-group, multinational, open-label trial (LEAD-6)

John B Buse, Julio Rosenstock, Giorgio Sesti, Wolfgang E Schmidt, Eduard Montanya, Jason H Brett, Marcin Zychma, Lawrence Blonde, for the LEAD-6 Study Group*

Summary

Background Unlike most antihyperglycaemic drugs, glucagon-like peptide-1 (GLP-1) receptor agonists have a glucose-dependent action and promote weight loss. We compared the efficacy and safety of liraglutide, a human GLP-1 analogue, with exenatide, an exendin-based GLP-1 receptor agonist.

Methods Adults with inadequately controlled type 2 diabetes on maximally tolerated doses of metformin, sulphonylurea, or both, were stratified by previous oral antidiabetic therapy and randomly assigned to receive additional liraglutide 1.8 mg once a day (n=233) or exenatide 10 µg twice a day (n=231) in a 26-week open-label, parallel-group, multinational (15 countries) study. The primary outcome was change in glycosylated haemoglobin (HbA_{1c}). Efficacy analyses were by intention to treat. The trial is registered with ClinicalTrials.gov, number NCT00518882.

Findings Mean baseline HbA_{1c} for the study population was 8.2%. Liraglutide reduced mean HbA_{1c} significantly more than did exenatide (-1.12% [SE 0.08] vs -0.79% [0.08]; estimated treatment difference -0.33; 95% CI -0.47 to -0.18; p<0.0001) and more patients achieved a HbA_{1c} value of less than 7% (54% vs 43%, respectively; odds ratio 2.02; 95% CI 1.31 to 3.11; p=0.0015). Liraglutide reduced mean fasting plasma glucose more than did exenatide (-1.61 mmol/L [SE 0.20] vs -0.60 mmol/L [0.20]; estimated treatment difference -1.01 mmol/L; 95% CI -1.37 to -0.65; p<0.0001) but postprandial glucose control was less effective after breakfast and dinner. Both drugs promoted similar weight losses (liraglutide -3.24 kg vs exenatide -2.87 kg). Both drugs were well tolerated, but nausea was less persistent (estimated treatment rate ratio 0.448, p<0.0001) and minor hypoglycaemia less frequent with liraglutide.

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See Comment page 4
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Forthcoming Issue

- Volume 25(3); March 2010
- Volume 25(4); April 2010

Volume 25(3); March 2010

Original Articles

Pharmacology, Drug Therapy & Toxicology

Risk factors of drug interaction between warfarin and nonsteroidal anti-inflammatory drugs in practical setting
Kyung Hee Choi, Ah Jeong Kim, In Ja Son, Kyung-Hwan Kim, Ki-Bong Kim, Hyuk Ahn, Eun Bong Lee
Received February 27, 2009; Accepted May 15, 2009

Infectious Diseases, Microbiology & Parasitology

Clinical and Epidemiological Comparison of Human Metapneumovirus and Respiratory Syncytial Virus in Seoul, Korea, 2003-2008
Chang-Keun Kim, Chang-Keun Kim, Jungi Choi, Zak Callaway, Hyo Bin Kim, Ju Young Chung, Bo Moon Shin, Young Yull Koh
Received March 9, 2009; Accepted May 5, 2009

Immunology, Allergic Disorders & Rheumatology

Serum Pro-hepcidin Could Reflect Disease Activity in Patients with Rheumatoid Arthritis
Hae-Rim Kim, Kyung-Woon Kim, So-Young Yoon, Sang-Hyon Kim, Sang-Heon Lee
Received March 10, 2009; Accepted May 18, 2009

아직 발행되지 않은 다음 호의 논문명, 저자명, 투고일, 게재확정일을 확인할 수 있음

AAIR는 논문명, 저자명, 저자소속기관, 투고일, 게재확정일과 더불어 초록(abstract)도 제공함

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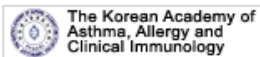
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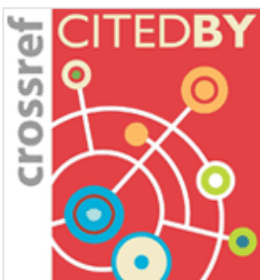
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Forthcoming Articles

Review

Update on the management of antibiotic allergy

Bernard Yu-Hor Thong.

Department of Rheumatology, Allergy and Immunology, Tan

Received October 18, 2009; Accepted October 19, 2009.

[Abstract](#) posted online 2010 January 5

Original Articles

Clinical characteristics according to sensitized allergen in bronchial asthma

Jae Woo Jung, Jae Chol Choi, Jong Wook Shin, Jae Yeon

Department of Internal Medicine, Chung-Ang University College of

Received August 5, 2009; Accepted December 16, 2009.

[Abstract](#) posted online 2010 January 22

IL-13 gene polymorphisms are associated with rhinovirus-induced inflammation in aspirin intolerant asthma

Nami Shrestha Palikhe, Seung-Hyun Kim, Bo-Young Cho, Gi-Hyeon Hae-Sim Park.

Department of Allergy and Rheumatology, Ajou University College of

Received August 31, 2009; Accepted November 26, 2009.

[Abstract](#) posted online 2010 January 5

Allergy Asthma Immunol Res. 2010 *Forthcoming*.

Abstract posted online 2010 January 5.

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Update on the management of antibiotic allergy

Bernard Yu-Hor Thong

Department of Rheumatology, Allergy and Immunology, Tan Tock Seng Hospital, Singapore.

Received October 18, 2009; Accepted October 19, 2009.

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Abstract

Drug allergy to antibiotics may occur in the form of immediate or non-immediate (delayed) hypersensitivity reactions. Immediate reactions are usually IgE-mediated whereas non-immediate hypersensitivity reactions are usually non-IgE or T-cell mediated. The clinical manifestations of antibiotic allergy may be cutaneous, organ-specific (e.g. blood dyscrasias, hepatitis, interstitial nephritis), systemic (e.g. anaphylaxis, drug induced hypersensitivity syndrome) or various combinations of these. Severe cutaneous adverse reactions manifesting as Stevens Johnson syndrome or toxic epidermal necrolysis (TEN) may be potentially life-threatening. The management of antibiotic allergy begins with the identification of the putative antibiotic from a detailed and accurate drug history, complemented by validated in-vivo and in-vitro allergological tests. This will facilitate avoidance of the putative antibiotic through patient education, use of drug alert cards, and electronic medical records with in-built drug allergy/adverse drug reaction prescription and dispensing checks. Knowledge of the evidence for specific antibiotic cross-reactivities is also important in patient education. Apart from withdrawal of the putative antibiotic, immunomodulatory agents like high-dose intravenous immunoglobulins may have a role in TEN. Drug desensitization where the benefits outweigh the risks, and where no alternative antibiotics can be used for various reasons, may be considered in certain situations. Allergological issues pertaining to electronic drug allergy alerts, computerized physician prescriptions and decision support systems, and antibiotic de-escalation in antimicrobial stewardship programmes are also discussed.

JKMS: Full-text & download citation

The screenshot displays the JKMS (Journal of Korean Medical Science) website interface. At the top, the logo 'JKMS' is visible alongside the text 'Open Access, Monthly' and ISSN information. Below the logo, there are navigation links for 'Table of Contents > Full-text' and a row of buttons: 'Abs + Ref', 'Abs + Fig & Tbl + Ref', 'Full-text', 'XML', 'PDF', and 'Download Citation'. The 'Download Citation' button is highlighted with a red dashed circle. Below these buttons, the article title 'In vivo Tracking of Mesenchymal Chitosan-coated Superparamagnetic Iron Oxide Nanoparticles using 3.0T MRI' is shown, along with author names and publication details. An 'Export Citation' dialog box is overlaid on the page, containing the citation text and options for file and citation formats. The dialog box has a red border and contains the following text:

Export Citation

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Reddy AM, Kwak BK, Shim HJ, Ahn C, Lee HS, Suh YJ, Park ES. **In vivo Tracking of Mesenchymal Stem Cells Labeled with a Novel Chitosan-coated Superparamagnetic Iron Oxide Nanoparticles using 3.0T MRI.** J Korean Med Sci. 2010 Feb;25(2):211-219. doi: 10.3346/jkms.2010.25.2.211

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At the bottom of the page, there is a red bar with the word 'Abstract' in white text. The footer of the page includes the date '2010-02-05', the 'xmlink' logo and website 'www.xmlink.kr', and the page number '30'.

JKMS: Figures & Tables

pathologists a clinical history and intraop

In conclusion, an algorithm using size and metastatic mucinous adenocarcinoma fro
However, clinicopathologic evaluation is size between 10 cm and 15 cm.

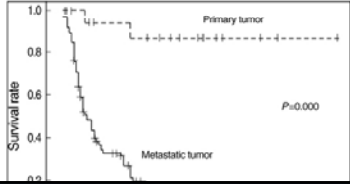


Fig. 1
Overall survival
adenocarcin






Table 1
Distribution of primary/metastatic mucinous adenocarcinomas based on size with 10 cm, 13 cm, and 15 cm cut off, respectively, and laterality

	All tumors							Tumors excluding signet ring cell carcinoma						
	No.	<10 cm	≥10 cm	<13 cm	≥13 cm	<15 cm	≥15 cm	No.	<10 cm	≥10 cm	<13 cm	≥13 cm	<15 cm	≥15 cm
Unilateral														
Primary	18	0	18	3	15	5	13	18	0	18	3	15	5	13
		(0%)	(50%)	(8.8%)	(60%)	(12.5%)	(68.4%)		(0%)	(50%)	(8.8%)	(60%)	(12.5%)	(68.4%)
Metastatic	41	23	18	31	10	35	6	39	22	17	29	10	33	6
		(100%)	(50%)	(91.2%)	(40%)	(87.5%)	(31.6%)		(100%)	(48.6%)	(90.6%)	(40%)	(86.8%)	(31.6%)
Bilateral														
Primary	1	0	1	0	1	0	1	1	0	1	0	1	0	1
		(0%)	(3.3%)	(0%)	(5%)	(0%)	(5.9%)		(0%)	(4.5%)	(0%)	(6.3%)	(0%)	(6.7%)
Metastatic	50	21	29	31	19	34	16	35	14	21	20	15	21	14
		(100%)	(96.7%)	(100%)	(95%)	(100%)	(94.1%)		(100%)	(95.5%)	(100%)	(93.7%)	(100%)	(93.3%)
% of correctly classified			82.7		87.3		89.1			80.6		84.9		87.1

J Korean Med Sci. 2010 Feb;25(2):220-225.
doi: 10.3346/jkms.2010.25.2.220
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JKMS: References

Journal of Korean Medical Sciences - Windows Internet Explorer
http://www.jkms.or.kr/

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J Korean Med Sci. 2006 Feb;21(1):52-57.
Published online 2006 February 20. doi: 10.3346/jkms.2006.21.1.52.
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Comparison of the Efficacy of Oral Capecitabine versus Preoperative Radiotherapy of Locally Advanced Rectal Cancer

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Comparison of the Efficacy of Oral Capecitabine versus Bolus 5-FU in Preoperative Radiotherapy of Locally Advanced Rectal Cancer

Kim JS, Kim JS, Cho MJ, Yoon WH, Song KS.
 J Korean Med Sci. 2006 Feb;21(1):52-57. Published online 2006 February 20. doi: 10.3346/jkms.2006.21.1.52.

Is Cited by the Following Articles in  

- Capecitabine and Radiotherapy as Neoadjuvant Treatment for Rectal Cancer**
 Ben-Josef E.
 American Journal of Clinical Oncology. 2007;30(6):649. doi: 10.1097/COC.0b013e3180ca7c9e.

- Capecitabine vs continuous infusion 5-FU in neoadjuvant treatment of rectal cancer. A retrospective review**
 Saif MW, Hashmi S, Zelterman D, Almhanna K, Kim R.
 International Journal of Colorectal Disease. 2008;23(2):139. doi: 10.1007/s00384-007-0382-z.

- UFT (tegafur-uracil) in rectal cancer**
 Casado E, Pfeiffer P, Feliu J, Gonzalez-Baron M, Vestermark L, Jensen HA.
 Annals of Oncology. 2008;19(8):1371. doi: 10.1093/annonc/mdn067.

- Oncologic Result as According to Tumor Regression Grade after Neoadjuvant Chemoradiation Therapy in Locally Advanced Rectal Cancer**
 Park JH, Song MS, Min HS, Kim JY.
 Journal of the Korean Society of Coloproctology. 2008;24(6):422. doi: 10.3393/jksc.2008.24.6.422.

- Neoadjuvantes Behandlungskonzept**
 Lahmer G, Fietkau R.
 Der Onkologe. 2009;15(7):705. doi: 10.1007/s00761-009-1647-7.


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- as of June 30, 2009 -- updated annually
- Most-cited rankings are based on citations to JKMS articles from articles published in SCI journals in 2008.

- 1 **Epidemiological findings of hepatitis B infection based on 1998 National Health and Nutrition Survey in Korea**
Lee DH, Kim JH, Nam JJ, Kim HR, Shin HR.
J Korean Med Sci. 2002 Aug;17(4):457-462.
- 2 **The role of nitric oxide in experimental cerulein induced pancreatitis**
Um SH, Kwon YD, Kim CD, Lee HS, Jeon YT, Chun HJ, Lee SW, Choi JH, Ryu HS, Hyun JH.
J Korean Med Sci. 2003 Aug;18(4):520-526.
- 3 **Attitudes and reported practice for obesity management in Korea after introduction of anti-obesity agents**
Park HS, Park JY, Cho HJ.
J Korean Med Sci. 2005 Feb;20(1):1-6.
- 4 **Capecitabine and vinorelbine in patients with metastatic breast cancer previously treated with anthracycline and taxane**
Ahn JH, Kim SB, Kim TW, Ahn SH, Kim SM, Park JM, Lee JS, Kang YK, Kim WK.
J Korean Med Sci. 2004 Aug;19(4):547-553.
- 5 **A single nucleotide polymorphism in the E-cadherin gene promoter-160 is not associated with risk of Korean gastric cancer**
Park WS, Cho YG, Park JY, Kim CJ, Lee JH, Kim HS, Lee JW, Song YH, Park CH, Park YK, Kim SY, Nam SW, Lee SH, Yoo NJ, Lee JY.
J Korean Med Sci. 2003 Aug;18(4):501-504.
- 6 **Human metapneumovirus infection in hospitalized children with acute respiratory disease in Korea**
Chung JY, Han TH, Kim LE, et al.
J Korean Med Sci. 2006 Oct;21(5):838-842.
- 7 **Comparison of the efficacy of oral capecitabine versus bolus 5-FU in preoperative radiotherapy of locally advanced rectal cancer**

2008년 SCI 논문들이 JKMS 논문을 인용한 횟수의 순위로 10위까지 열거함.
Journal Citation Reports (JCR)의 가장 최근 출판일인 2009년 6월 30일에 조사한 기록을 담았으며, 1년마다 갱신함.













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- as of December 31, 2009 -- updated quarterly
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- The usage statistics is based on full-text and pdf views in PubMed Central (PMC).

JKMS articles published after 2005 are currently available from PMC. Therefore, the ranking here represents the top 10 most accessed articles among those records available from PMC. The list is certainly biased in favor of articles published in 2008, the first set of JKMS articles released in PMC. We expect the next announcement of the top 10 ranking to be more representative of the use of the JKMS articles.

1 **Computational Action Modeling of Human Decision Making**
Hee Kyu Park, J. Korean Med. Sci. 2009 Jan 28; 24(Suppl 1):S57-S62. Published online 2009 Jan 28. doi: 10.3346/jkms.2009.24.S1.S57.

2 **Hypocomplementemic Urticarial Vasculitis in Systemic Lupus Erythematosus**
Min Young Her, Joo Yeon Song, Dong Yook Kim. J Korean Med Sci. 2009 Feb 28; 24(1):184-186. Published online 2009 Feb 28. doi: 10.3346/jkms.2009.24.1.184.

3 **The Role of Whole-Body FDG PET/CT, Tc 99m MDP Bone Scintigraphy, and Serum Alkaline Phosphatase in Detecting Bone Metastasis in Patients with Newly Diagnosed Lung Cancer**
Joo-Won Min, Sang-Won Um, Jae-Jun Yim, Chul-Gyu Yoo, Sung Koo Han, Young-Soo Shim, Young Whan Kim. J Korean Med Sci. 2009 Apr 21; 24(2):275-280. Published online 2009 Apr 21. doi: 10.3346/jkms.2009.24.2.275.

4 **The Effect of Lactic Acid Bacteria Isolates on the Urinary Tract Pathogens to Infant In Vitro**
In Seok Lim, Ho Seok Lee, Won Yong Kim. J Korean Med Sci. 2009 Jan 28; 24(Suppl 1):S57-S62. Published online 2009 Jan 28. doi: 10.3346/jkms.2009.24.S1.S57.

PMC에서 full-text와 PDF에 접속한 횟수에 기반하여 가장 많이 이용된 논문들에 대하여 순위를 매긴 것으로 분기별로 갱신한다. PMC에서 현재 JKMS는 2005년 부터만 검색되기 때문에 여기서의 순위는 PMC에 올라간 2005-2009년의 것에 한정되어 있다.

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